

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199176

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL2-8030-1200-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4416 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

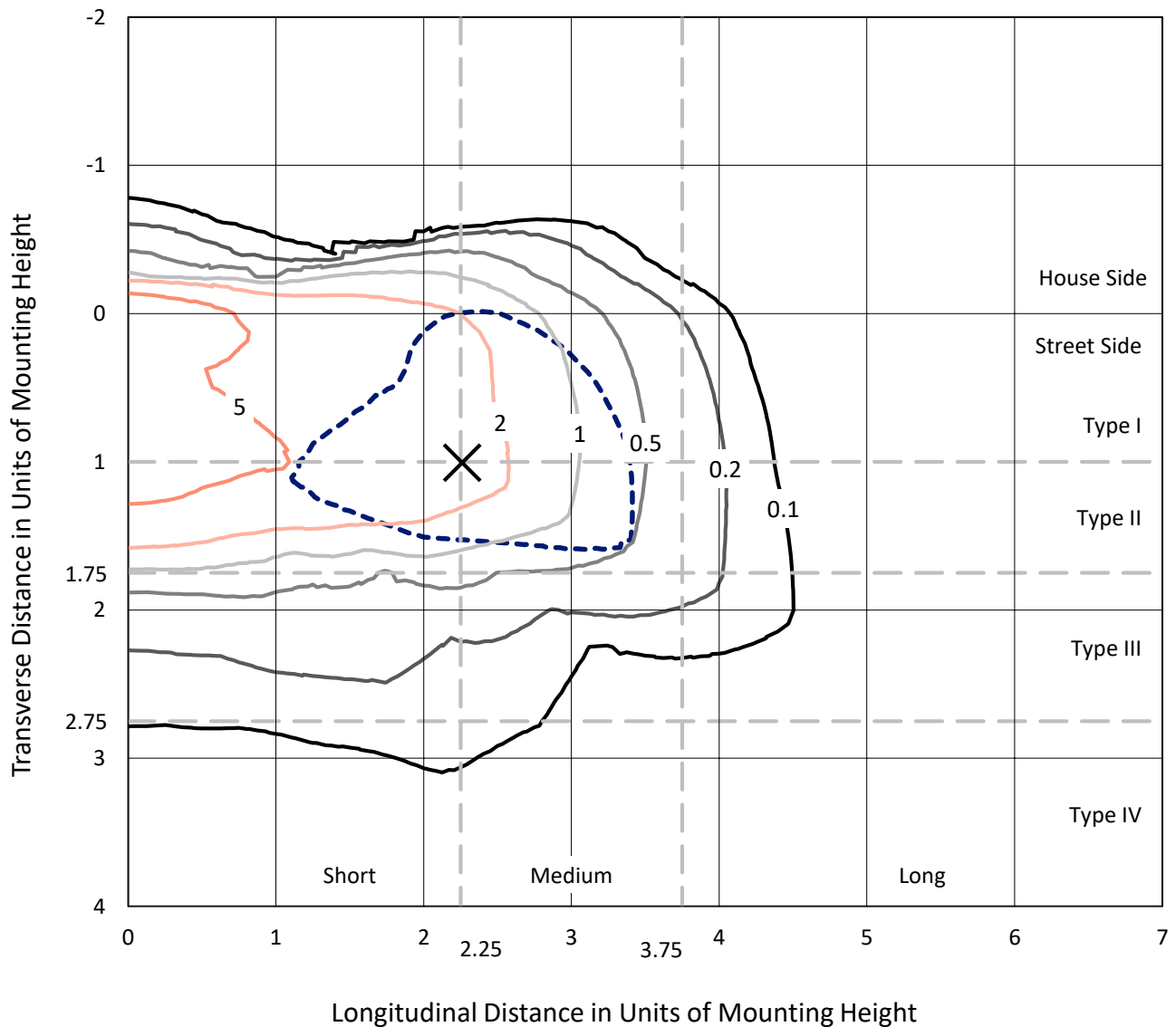


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

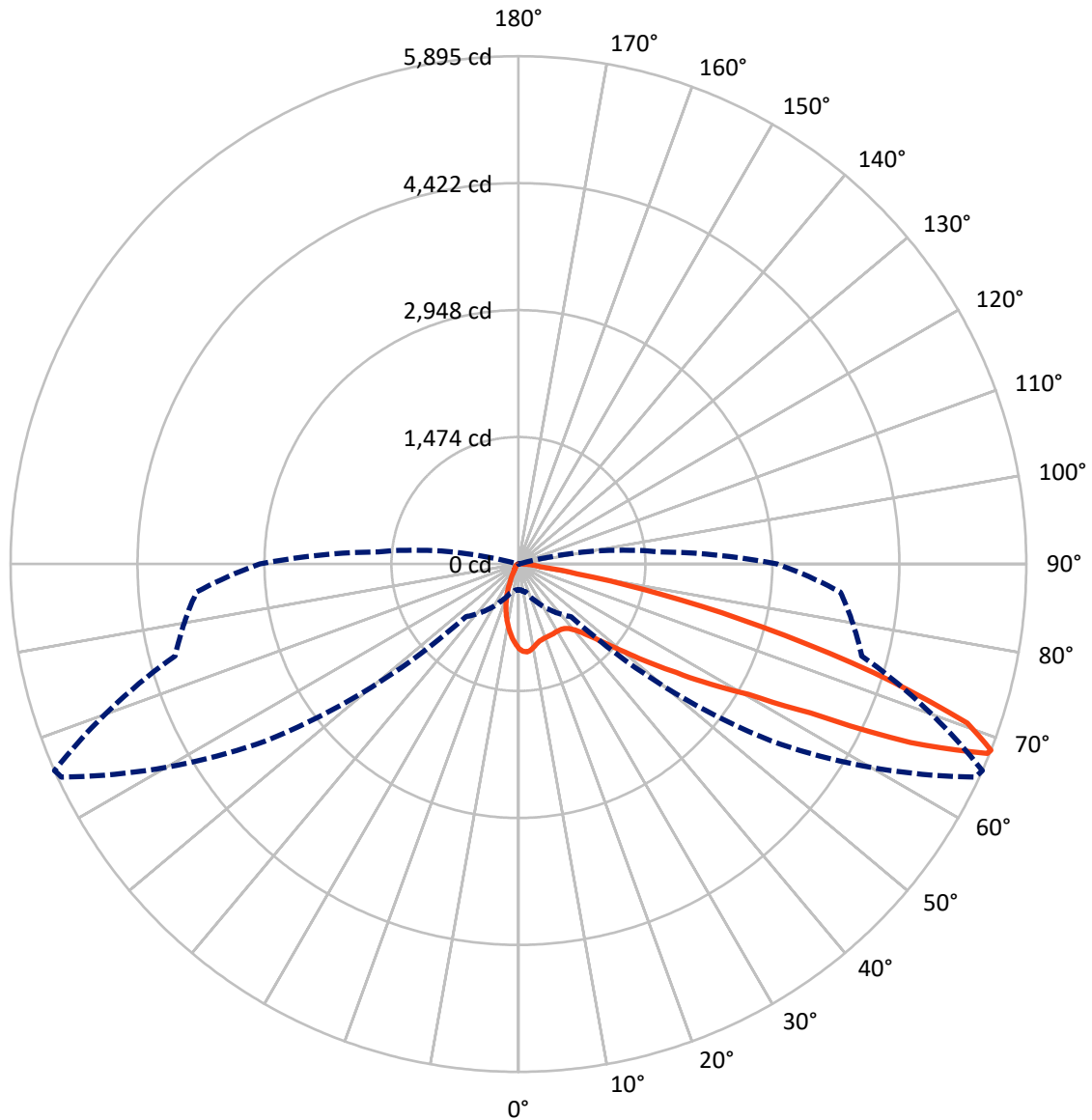


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical



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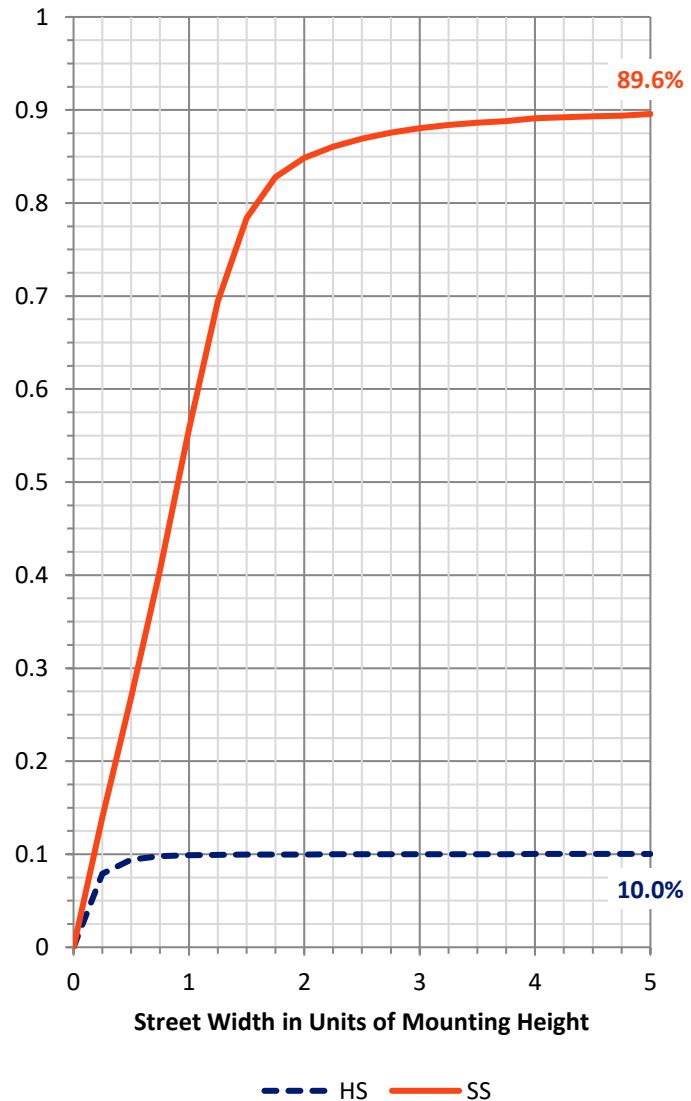
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	447.3	0.0	447.3
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	3968.7	0.0	3968.7
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	4416.0	0.0	4416.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	1.8
10°-20°	173.5	3.9
20°-30°	251.5	5.7
30°-40°	385.0	8.7
40°-50°	658.4	14.9
50°-60°	1030.0	23.3
60°-70°	1186.0	26.9
70°-80°	593.5	13.4
80°-90°	57.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4416.0	100.0
0°-180°	4416.0	100.0



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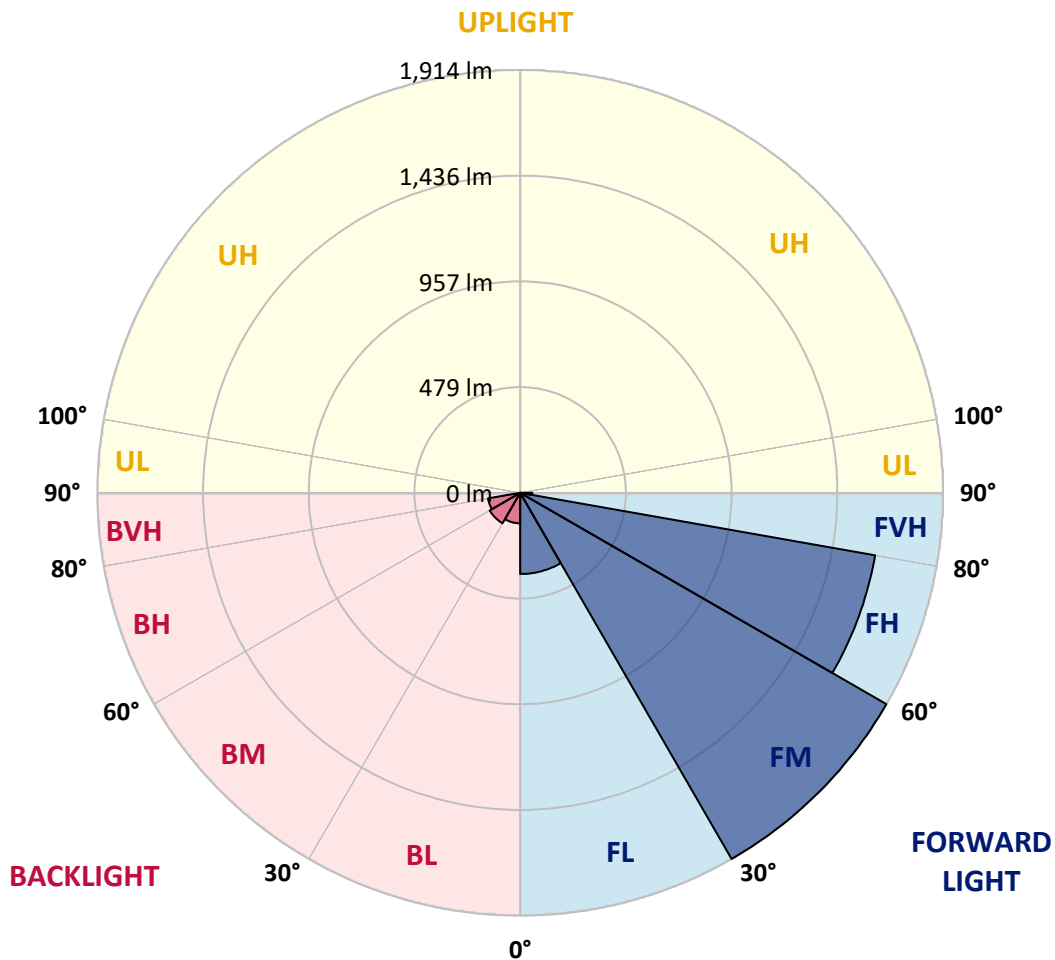
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.6	8.3			
FM	(30°-60°)	1914.1	43.3			
FH	(60°-80°)	1631.7	36.9			G1/1800
FVH	(80°-90°)	55.3	1.3			G1/100
BL	(0°-30°)	138.1	3.1	B1/500		
BM	(30°-60°)	159.3	3.6	B0/220		
BH	(60°-80°)	147.8	3.3	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8
2.5°	1034.8	1035.5	1035.1	1036.2	1035.5	1030.3	1024.7	1013.0	1014.0	998.7	981.8
5°	962.0	967.9	973.8	979.7	993.9	1006.4	1021.3	1024.7	1024.7	1011.6	986.6
7.5°	887.8	888.2	894.7	902.7	921.8	944.7	979.3	1010.5	1011.2	1014.7	987.3
10°	832.0	833.7	838.2	846.9	866.0	888.5	927.3	976.2	980.0	1005.7	980.4
12.5°	788.7	790.7	795.6	805.7	823.0	846.2	887.1	942.9	948.1	997.0	978.3
15°	755.4	758.2	762.0	772.0	790.7	815.4	860.1	920.7	927.0	993.5	984.9
17.5°	741.5	741.5	741.2	748.1	766.8	791.8	838.6	909.0	916.9	996.3	996.0
20°	747.4	746.4	739.1	737.4	748.8	773.8	821.6	901.3	910.3	1001.5	1009.5
22.5°	778.6	776.5	760.2	746.7	743.3	759.9	810.2	896.1	906.9	1012.3	1027.5
25°	844.8	838.6	816.1	785.5	758.2	756.4	802.2	893.4	904.8	1024.7	1047.3
27.5°	930.8	929.1	893.0	852.1	799.4	767.9	799.8	891.3	902.7	1033.8	1063.2
30°	1037.6	1038.3	996.7	943.3	863.5	800.1	807.4	890.2	902.0	1034.5	1070.2
32.5°	1147.8	1148.5	1113.8	1056.6	951.3	855.6	828.9	895.1	905.8	1031.7	1069.8
35°	1253.9	1254.9	1234.1	1188.0	1068.4	932.5	869.4	911.7	919.4	1033.4	1069.1
37.5°	1388.1	1392.2	1366.6	1323.6	1215.4	1045.5	935.7	945.4	951.6	1047.6	1074.3
40°	1616.9	1611.3	1537.8	1465.0	1374.9	1183.2	1031.3	1003.3	1005.3	1084.4	1094.1
42.5°	1883.4	1876.5	1750.7	1625.2	1538.9	1349.2	1153.7	1092.0	1091.7	1146.1	1137.1
45°	2112.9	2108.8	1976.4	1808.9	1720.5	1532.6	1304.5	1219.9	1215.8	1252.9	1215.4
47.5°	2275.9	2272.4	2172.2	2004.4	1930.6	1734.4	1492.8	1394.3	1385.6	1392.6	1342.6
50°	2291.8	2288.0	2253.0	2145.2	2176.0	2030.4	1725.4	1622.8	1611.7	1600.9	1535.0
52.5°	2142.8	2142.4	2160.8	2153.8	2348.0	2411.4	2010.7	1905.3	1892.1	1864.7	1799.2
55°	1838.0	1836.3	1906.0	2007.2	2344.2	2804.5	2445.7	2241.6	2224.2	2169.4	2083.5
57.5°	1343.0	1334.0	1479.6	1694.2	2179.5	2976.5	3136.6	2659.3	2630.5	2456.8	2324.4
60°	741.5	745.0	932.2	1186.3	1789.5	2942.5	3772.4	3146.4	3070.8	2704.7	2571.2
62.5°	415.7	424.3	563.7	771.0	1140.9	2666.9	4113.6	3984.6	3802.6	2993.8	2883.2
65°	314.4	319.6	389.7	594.9	719.3	1863.7	4168.0	5156.7	4999.6	3432.0	3380.0
67.5°	296.1	300.2	334.5	493.3	655.2	966.5	3758.2	5850.0	5869.8	4029.7	3764.8
68°	298.1	303.3	337.7	474.6	654.2	864.6	3583.5	5853.5	5895.4	4126.0	3751.6
70°	273.9	275.3	357.1	465.6	634.1	681.2	2592.4	5452.4	5527.6	4240.8	3405.7
72.5°	104.7	105.0	160.2	403.2	664.2	685.0	1305.9	4309.4	4313.2	3690.6	2655.1
75°	54.4	45.8	50.3	126.2	634.4	667.7	655.2	2942.5	2924.1	2496.0	1626.9
77.5°	37.4	31.9	33.6	43.7	263.8	667.3	473.2	1692.1	1688.3	1061.8	464.2
80°	21.1	18.4	20.1	36.7	92.6	626.4	441.0	727.3	685.4	186.5	75.2
82.5°	10.7	9.0	10.7	30.9	57.5	394.2	428.8	285.3	254.1	44.4	48.9
85°	2.8	2.8	5.2	21.5	35.7	129.3	384.5	205.9	185.1	19.4	34.7
87.5°	0.7	0.3	2.1	8.0	12.8	28.1	213.2	114.7	98.8	10.1	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8	983.8
2.5°	974.8	965.1	946.1	924.6	909.3	892.7	883.0	871.2	862.2	854.2	860.1
5°	971.4	952.6	910.3	862.9	823.0	784.9	756.4	729.4	708.9	696.1	701.3
7.5°	962.3	934.6	866.0	791.8	726.6	665.3	615.3	570.6	535.9	517.2	523.1
10°	947.1	907.9	815.7	712.7	621.6	534.9	460.7	394.2	343.9	320.3	325.9
12.5°	936.0	884.3	763.7	636.5	516.5	393.5	295.0	218.7	179.6	156.0	158.1
15°	931.1	866.0	715.2	556.1	401.8	252.7	159.5	115.4	101.9	97.1	97.4
17.5°	931.8	851.4	669.1	472.5	286.0	145.3	97.8	88.1	86.0	84.9	84.9
20°	933.6	836.9	621.2	385.5	183.0	93.6	81.5	78.3	77.3	75.9	76.3
22.5°	938.8	825.8	573.0	298.1	112.7	76.3	72.1	69.3	67.6	65.5	65.9
25°	946.7	817.4	525.5	214.6	79.4	66.6	62.7	58.9	55.8	53.4	53.7
27.5°	951.6	805.7	474.9	146.3	65.9	58.2	53.0	47.8	44.4	42.3	41.9
30°	948.1	786.6	417.4	96.0	58.2	50.3	44.0	38.1	34.7	32.9	32.9
32.5°	938.8	762.0	353.9	70.0	51.7	43.3	35.7	30.5	28.1	27.0	27.4
35°	928.0	736.3	286.3	59.3	46.5	36.7	29.1	25.0	23.9	23.6	23.6
37.5°	922.1	714.1	221.5	53.7	41.6	30.5	23.9	21.5	20.5	20.5	20.5
40°	928.7	697.1	164.0	49.6	36.7	25.3	20.1	18.4	18.0	18.0	18.0
42.5°	956.8	691.3	119.9	46.1	31.9	21.1	17.3	15.9	15.6	15.9	15.9
45°	1011.6	704.1	90.8	42.6	27.4	17.3	14.9	13.9	13.9	14.2	14.2
47.5°	1104.5	737.0	74.5	39.2	22.9	14.6	12.8	12.1	12.1	12.5	12.5
50°	1248.7	798.0	66.9	35.4	19.1	12.5	10.7	10.4	10.4	10.7	11.1
52.5°	1467.8	914.2	63.1	31.5	15.6	10.4	9.0	8.7	9.0	9.4	9.4
55°	1711.5	1062.9	58.6	27.7	13.2	8.7	7.3	7.3	7.6	8.3	8.3
57.5°	1938.6	1206.4	54.4	22.9	11.4	6.9	5.9	5.9	6.6	7.3	7.3
60°	2178.5	1347.2	48.9	18.4	9.7	5.5	4.9	4.9	5.9	6.6	6.9
62.5°	2474.9	1510.8	41.6	14.6	7.6	4.2	3.5	4.5	5.5	6.6	6.6
65°	2903.3	1714.3	32.6	11.4	5.9	3.1	2.8	4.2	5.2	6.2	6.6
67.5°	3059.0	1688.3	24.6	9.4	4.5	2.4	2.4	3.8	5.2	6.2	6.2
68°	3002.1	1631.4	23.6	9.0	4.2	2.4	2.4	3.8	5.2	6.2	6.2
70°	2616.0	1333.6	19.4	6.9	3.5	2.1	2.1	3.5	5.2	5.9	6.2
72.5°	1958.7	886.1	16.6	4.5	3.1	2.1	1.7	3.5	4.9	5.9	5.9
75°	1123.6	367.8	14.2	3.5	2.8	1.7	1.7	3.1	4.9	5.9	5.9
77.5°	317.5	86.0	11.4	2.8	2.4	1.7	1.4	3.1	4.5	5.5	5.5
80°	58.2	25.7	9.0	2.4	2.1	1.7	1.4	3.1	4.5	5.5	5.5
82.5°	38.5	12.1	6.6	2.4	2.1	1.7	1.4	2.8	4.2	5.2	5.2
85°	28.8	8.7	4.2	2.4	2.1	1.7	1.4	2.8	4.2	5.2	5.2
87.5°	15.9	3.8	3.1	2.8	2.4	1.7	1.4	2.4	3.8	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)