

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: P198550

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)  
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-SL3-7030-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4545 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

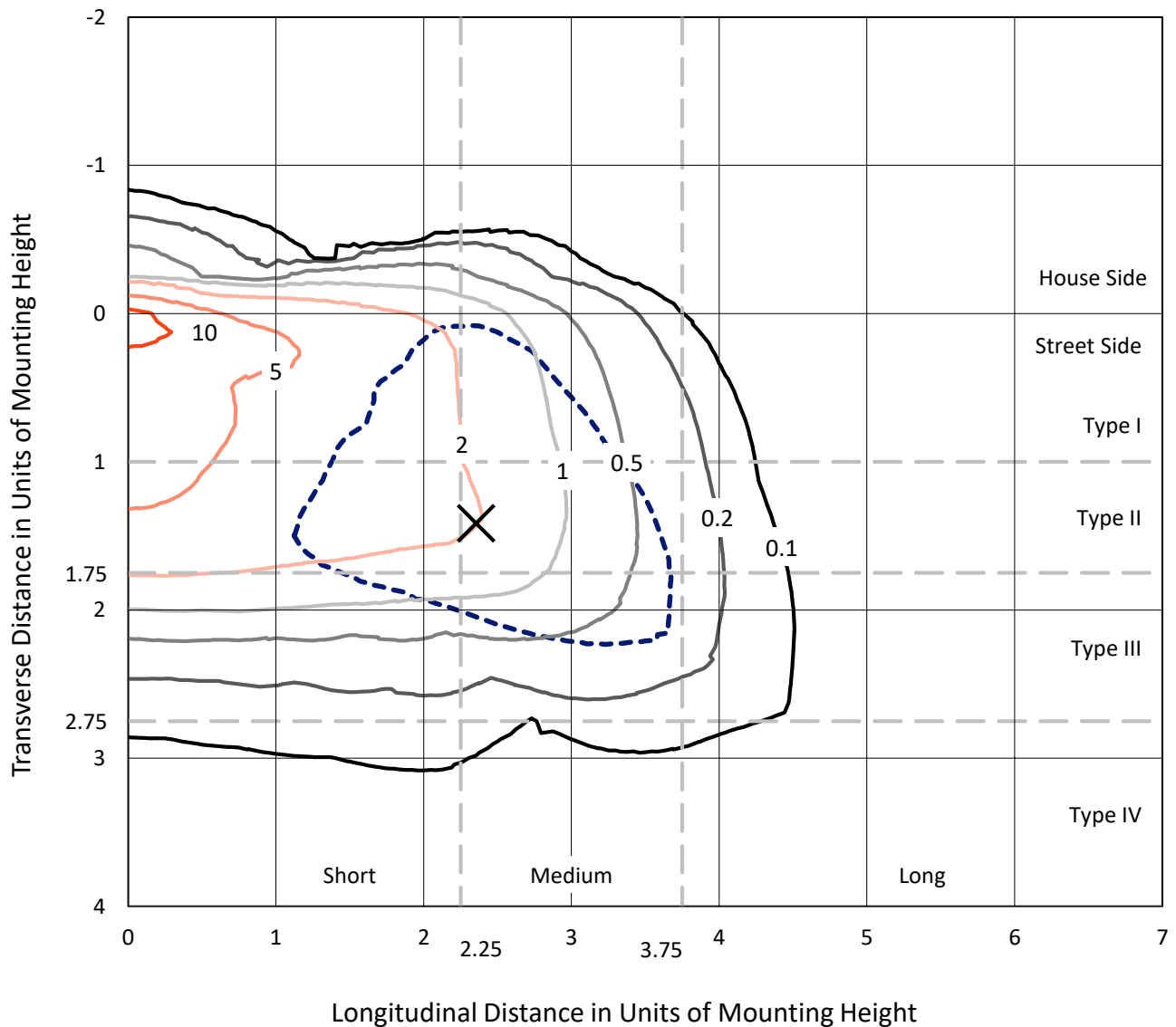
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

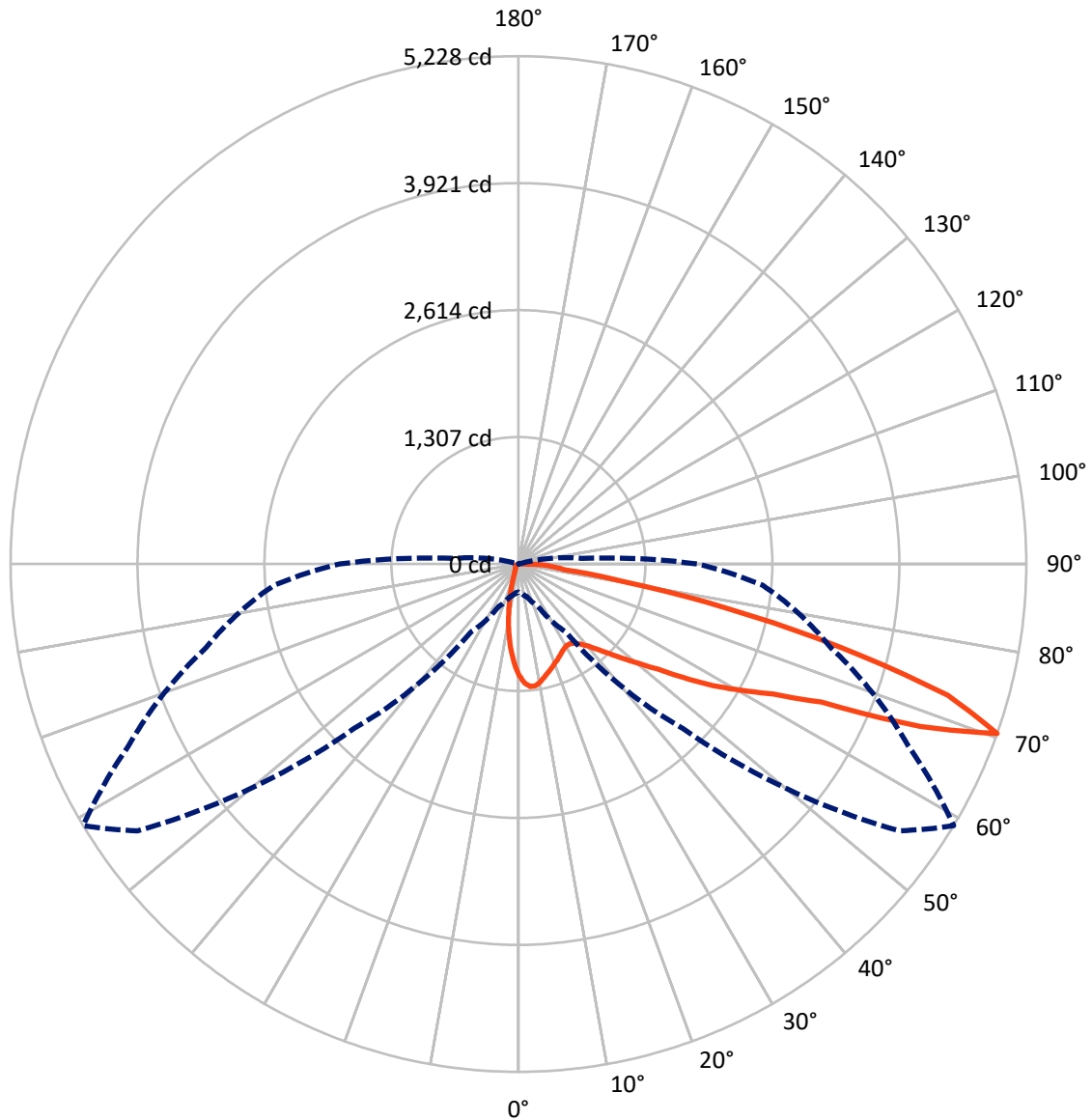
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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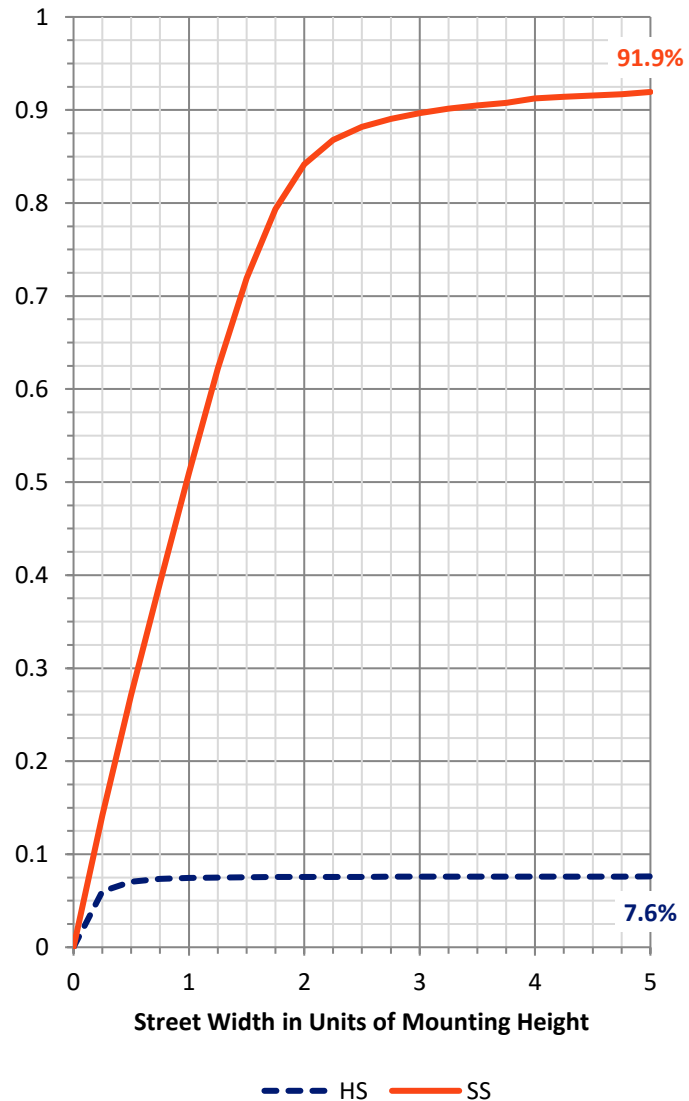
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	349.4	0.0	349.4
	% Fixture	7.7	0.0	7.7
<b>Street Side</b>	Lumens	4195.6	0.0	4195.6
	% Fixture	92.3	0.0	92.3
<b>Total</b>	Lumens	4545.0	0.0	4545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	2.1
10°-20°	198.2	4.4
20°-30°	268.3	5.9
30°-40°	387.2	8.5
40°-50°	643.1	14.1
50°-60°	983.7	21.6
60°-70°	1223.5	26.9
70°-80°	676.3	14.9
80°-90°	70.1	1.5
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°	4545.0	100.0
0°-180°	4545.0	100.0

**Coefficient of Utilization**



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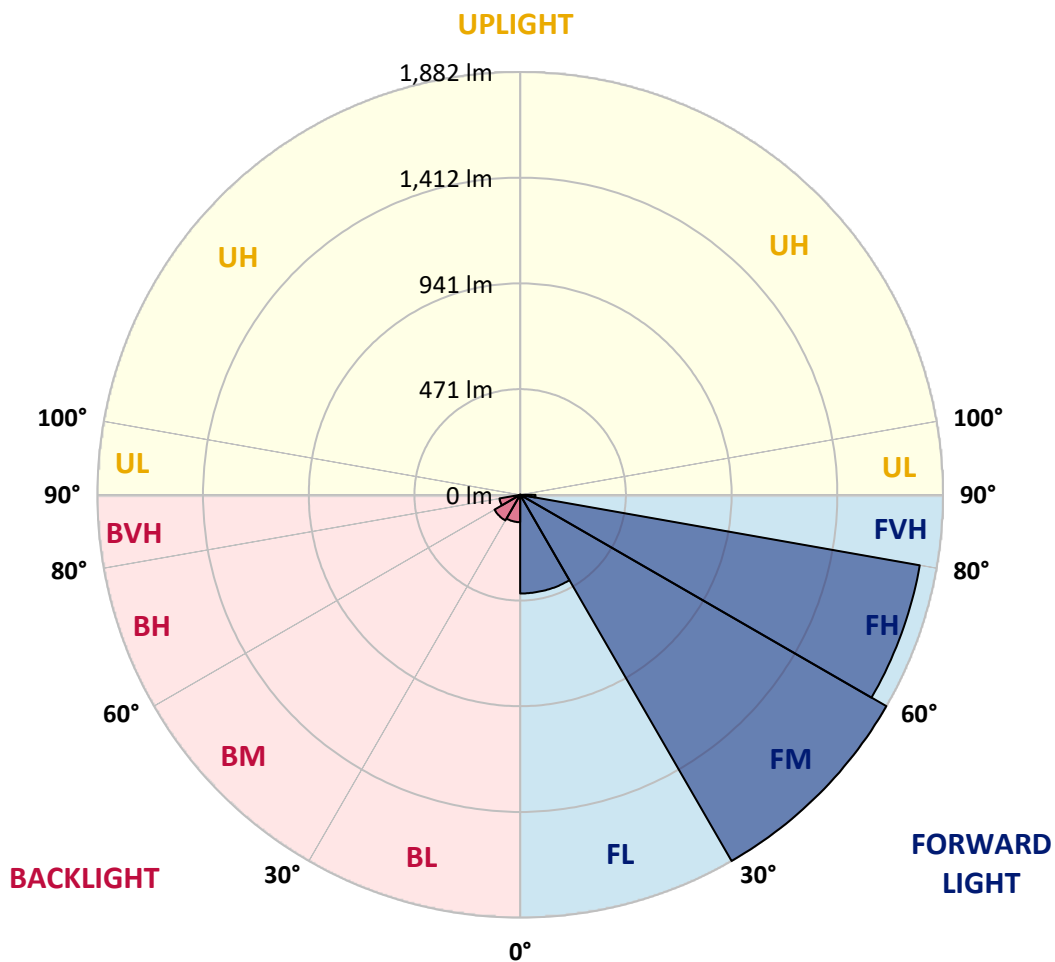
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.3	9.7			
FM	(30°-60°)	1882.1	41.4			
FH	(60°-80°)	1806.1	39.7			G2/5000
FVH	(80°-90°)	68.1	1.5			G1/100
BL	(0°-30°)	121.8	2.7	B1/500		
BM	(30°-60°)	131.9	2.9	B0/220		
BH	(60°-80°)	93.7	2.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3
2.5°	1299.1	1297.0	1288.5	1286.8	1277.2	1258.0	1235.7	1226.8	1208.6	1179.8	1147.9
5°	1320.7	1321.7	1322.4	1318.6	1317.3	1301.5	1276.8	1266.2	1241.8	1194.5	1136.2
7.5°	1239.8	1242.5	1251.1	1254.9	1271.3	1277.5	1272.4	1265.5	1246.3	1190.4	1108.5
10°	1154.4	1159.6	1168.8	1175.0	1195.2	1211.7	1232.6	1234.3	1230.2	1176.7	1077.3
12.5°	1081.0	1085.8	1096.1	1108.5	1129.0	1150.3	1181.5	1192.5	1206.2	1167.8	1055.0
15°	1018.0	1019.3	1029.3	1044.7	1071.8	1100.9	1138.0	1154.1	1180.8	1164.4	1037.8
17.5°	962.8	963.1	969.6	983.7	1016.6	1055.0	1098.2	1119.4	1153.4	1159.6	1022.8
20°	926.4	926.1	926.4	934.0	963.1	1008.7	1061.2	1083.4	1127.0	1153.7	1007.3
22.5°	914.1	912.4	904.5	901.7	920.2	960.4	1023.1	1052.2	1103.3	1152.0	996.0
25°	929.2	928.1	911.3	895.6	897.3	922.3	984.4	1020.0	1084.8	1158.2	993.3
27.5°	977.8	975.8	950.1	919.2	899.7	904.1	955.6	992.9	1070.1	1173.3	997.0
30°	1041.6	1042.0	1014.5	977.2	931.2	905.8	940.1	975.4	1060.1	1195.9	1005.3
32.5°	1112.6	1112.2	1092.7	1049.5	990.9	937.4	947.0	976.8	1061.5	1229.2	1021.0
35°	1186.0	1182.2	1175.7	1137.6	1069.0	992.6	978.2	1000.1	1075.9	1273.0	1047.8
37.5°	1270.6	1269.3	1275.8	1235.7	1165.7	1073.8	1033.0	1047.8	1112.2	1337.8	1091.0
40°	1405.4	1397.8	1400.9	1346.4	1274.8	1183.2	1109.8	1113.6	1170.2	1423.6	1159.2
42.5°	1662.2	1631.7	1574.4	1472.2	1394.8	1304.6	1210.3	1203.8	1252.1	1527.4	1249.0
45°	1969.0	1934.1	1789.7	1611.1	1514.8	1434.9	1334.4	1316.9	1352.9	1651.2	1364.9
47.5°	2225.2	2187.4	1996.1	1756.1	1636.8	1569.3	1471.9	1451.3	1473.6	1794.9	1504.1
50°	2312.6	2291.7	2123.7	1876.8	1759.9	1720.1	1644.4	1610.1	1615.6	1949.8	1666.6
52.5°	2272.5	2265.3	2152.8	1959.4	1873.7	1886.8	1833.3	1797.3	1791.1	2119.2	1846.3
55°	2187.8	2184.4	2129.5	2005.4	1974.2	2039.3	2098.3	2067.1	2008.8	2299.2	1994.8
57.5°	2066.8	2079.8	2119.2	2093.8	2097.6	2200.5	2344.5	2360.6	2273.5	2442.5	2104.8
60°	1743.4	1778.4	1959.1	2188.8	2364.7	2468.6	2608.1	2638.3	2497.7	2540.6	2232.0
62.5°	1288.8	1338.9	1596.4	2018.4	2511.8	2978.4	2958.9	2945.5	2711.7	2671.9	2463.4
65°	757.0	815.7	1033.4	1577.2	2290.0	3306.2	3613.7	3428.6	3037.7	2944.8	2832.0
67.5°	377.1	377.5	475.9	832.5	1692.4	3077.5	4569.6	4462.7	3731.0	3347.0	2977.4
70°	290.1	297.9	352.1	483.8	855.8	2396.9	4788.7	5227.9	4427.7	3329.2	2526.2
72.5°	245.8	251.0	313.4	421.0	639.8	1315.9	4145.5	4621.1	4225.1	2812.8	1862.1
75°	176.9	181.0	277.4	381.9	589.0	652.8	2843.7	3427.2	3170.1	1978.6	1024.8
77.5°	43.9	43.5	96.7	309.9	527.0	543.8	1631.7	2197.7	1818.9	810.2	263.3
80°	19.5	18.9	21.9	65.1	490.3	513.3	717.6	1109.8	697.7	131.3	80.6
82.5°	13.7	13.0	13.7	24.0	163.9	476.2	433.7	481.0	255.4	44.9	34.3
85°	4.5	4.1	7.5	20.2	45.9	274.6	423.1	359.3	189.9	19.2	23.0
87.5°	0.7	0.7	2.7	11.0	13.4	91.5	248.2	248.9	85.4	11.3	10.3
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°	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3
2.5°	1131.8	1111.6	1083.1	1054.6	1028.9	1002.5	981.3	971.3	966.9	960.7	947.3
5°	1105.7	1069.0	1006.6	945.3	888.0	833.1	786.2	759.4	730.6	729.3	715.2
7.5°	1063.9	1011.8	913.4	818.1	730.6	647.0	575.0	528.3	496.5	476.6	462.9
10°	1017.3	950.4	820.1	686.1	567.1	455.3	362.7	302.4	265.7	247.2	236.6
12.5°	980.2	896.2	728.2	559.5	410.4	282.2	196.1	152.2	132.7	125.1	121.7
15°	948.4	846.5	642.2	446.4	273.9	162.2	113.5	99.1	96.0	96.0	95.7
17.5°	916.1	798.5	558.5	335.3	172.5	106.3	89.5	87.4	87.8	88.8	88.8
20°	885.6	752.9	477.9	239.0	113.1	85.0	81.3	80.6	81.6	83.0	82.6
22.5°	860.9	712.8	402.5	164.2	87.1	77.1	74.7	73.7	74.4	75.4	75.1
25°	843.4	678.5	333.3	114.5	75.8	70.3	67.5	66.2	65.5	66.2	65.8
27.5°	832.8	649.7	268.1	86.1	67.9	63.4	60.0	57.3	55.5	55.5	54.9
30°	825.9	622.6	210.2	71.3	61.4	56.6	51.8	48.0	45.3	44.6	44.2
32.5°	825.6	599.3	157.0	63.1	55.2	49.7	43.9	39.1	36.0	35.3	35.0
35°	834.2	580.5	115.5	56.9	49.7	43.2	36.7	31.5	28.8	28.8	28.5
37.5°	856.5	569.5	87.4	52.1	45.3	37.7	30.9	26.1	23.7	24.3	24.3
40°	898.0	567.4	71.3	48.3	41.5	32.9	25.0	21.3	20.2	21.3	21.3
42.5°	961.4	578.4	63.4	45.6	38.1	28.1	20.9	18.2	17.8	18.9	18.9
45°	1044.0	600.0	59.0	43.2	34.3	23.3	17.5	15.8	15.4	16.8	16.8
47.5°	1144.1	629.1	54.9	40.5	30.5	19.2	14.7	13.4	13.4	14.7	15.1
50°	1262.8	668.6	50.7	37.7	27.4	16.1	12.3	11.3	11.7	13.0	13.4
52.5°	1399.2	716.9	47.0	35.3	24.0	13.0	10.3	9.6	9.9	11.3	11.7
55°	1516.8	759.1	42.5	32.9	19.5	10.6	8.6	8.2	8.6	10.3	10.3
57.5°	1619.3	799.5	38.4	29.1	15.4	8.6	6.9	6.9	7.5	9.3	9.6
60°	1755.4	863.3	35.0	24.7	11.7	6.5	5.5	5.8	6.9	8.2	8.6
62.5°	1996.5	971.7	30.5	20.6	8.6	5.1	4.5	4.8	6.2	7.9	8.2
65°	2298.2	1074.2	25.4	17.1	6.5	3.8	3.4	4.5	6.2	7.9	8.2
67.5°	2267.3	934.3	19.9	13.7	4.8	3.1	2.7	4.1	5.8	7.9	8.2
70°	1838.8	654.9	14.7	9.3	3.8	2.7	2.7	4.1	5.8	7.5	7.9
72.5°	1275.4	364.5	11.3	6.2	3.4	2.7	2.4	3.8	5.5	7.5	7.9
75°	606.9	111.8	8.9	4.5	3.1	2.4	2.1	3.8	5.5	7.5	7.9
77.5°	116.6	28.5	7.2	3.8	2.7	2.4	2.1	3.4	5.5	7.2	7.5
80°	39.4	12.7	5.8	3.4	2.7	2.4	2.1	3.4	5.1	6.9	7.2
82.5°	21.6	7.2	5.1	3.1	2.7	2.1	1.7	3.1	4.8	6.9	7.2
85°	16.8	5.1	4.1	3.1	2.7	2.1	1.7	3.1	4.8	6.5	6.9
87.5°	8.6	3.8	3.4	3.1	2.7	2.1	1.7	2.7	4.5	6.2	6.9
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)