

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: P271232

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271232
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-SL2-7027-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4286.1 lumens
Efficiency: N/A
Efficacy: 73.9 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

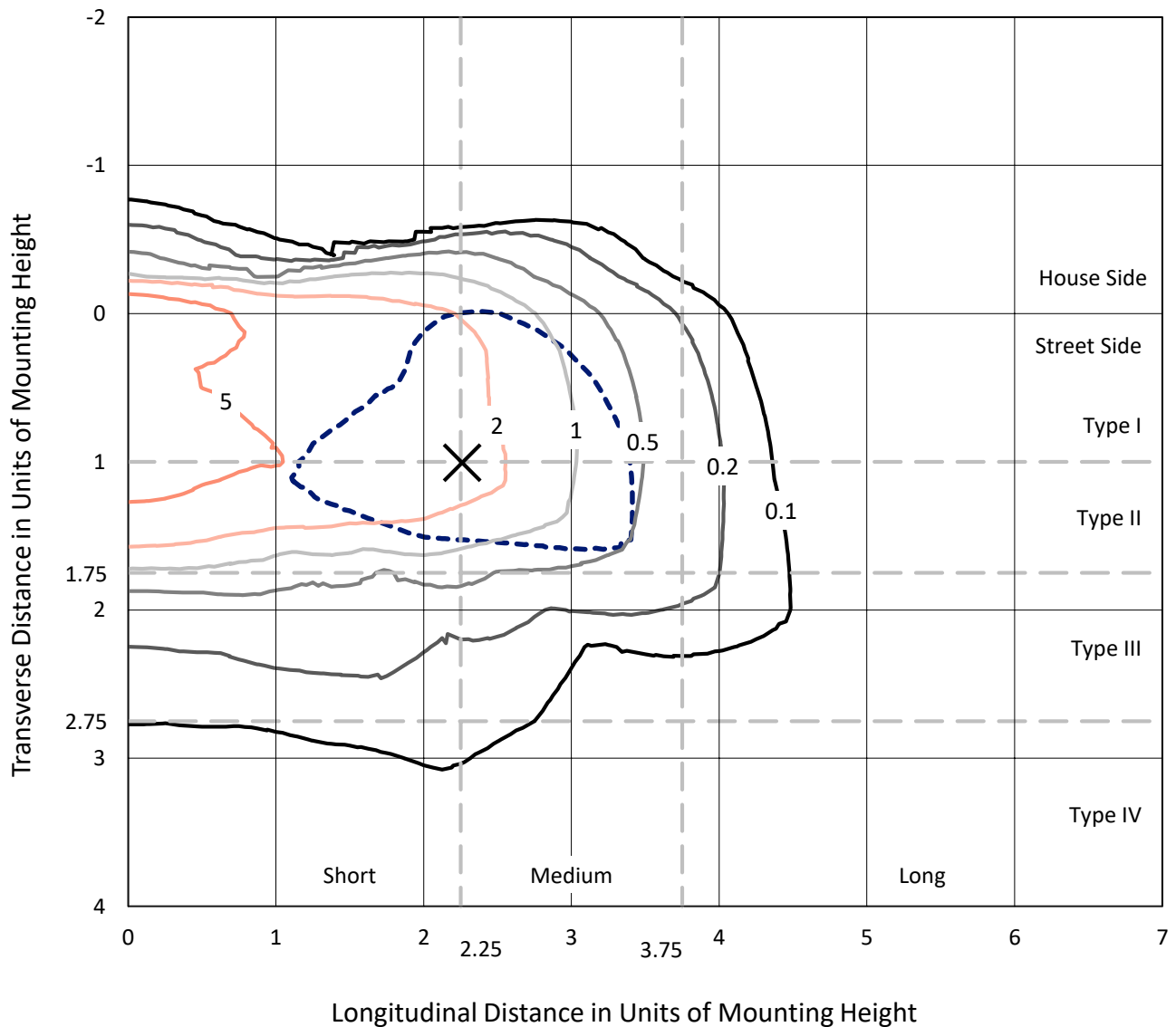
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

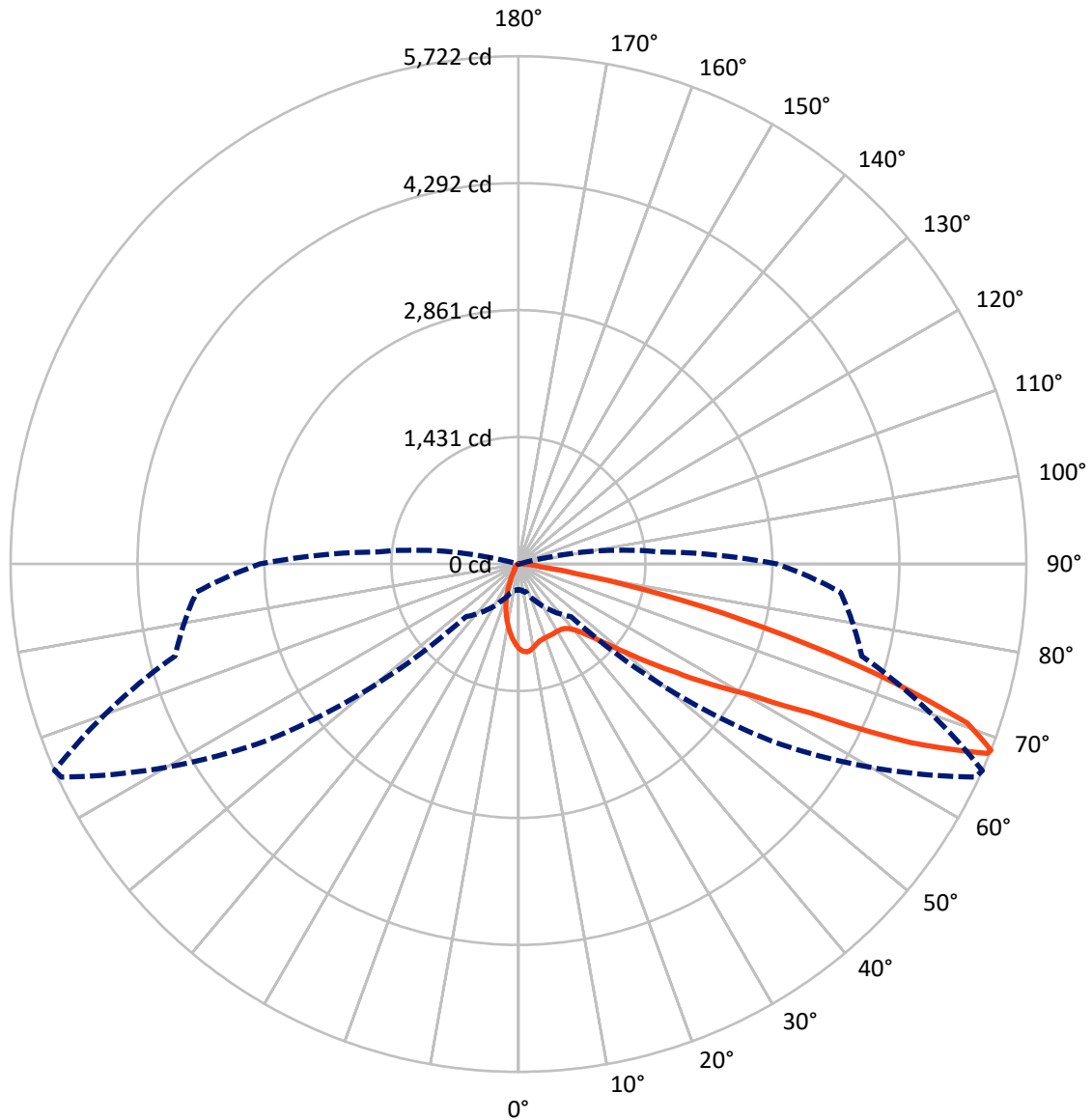
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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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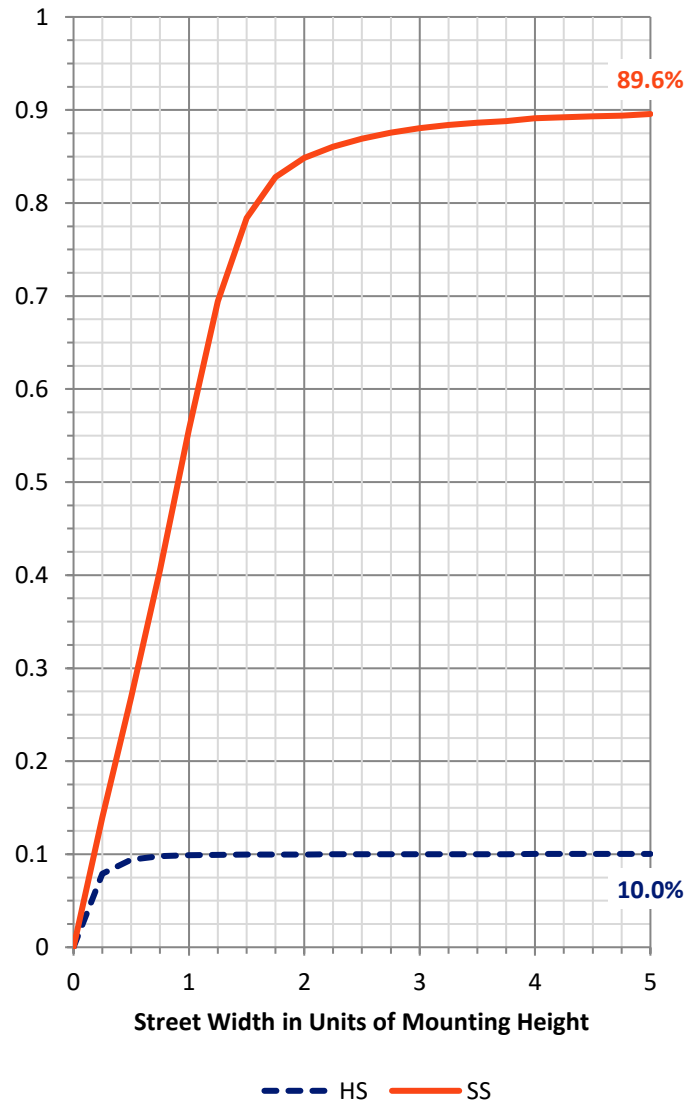
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.1	0.0	434.1
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	3852.0	0.0	3852.0
	% Fixture	89.9	0.0	89.9
Total	Lumens	4286.1	0.0	4286.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.8
10°-20°	168.4	3.9
20°-30°	244.1	5.7
30°-40°	373.6	8.7
40°-50°	639.1	14.9
50°-60°	999.7	23.3
60°-70°	1151.1	26.9
70°-80°	576.0	13.4
80°-90°	55.8	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°	4286.1	100.0
0°-180°	4286.1	100.0

Coefficient of Utilization



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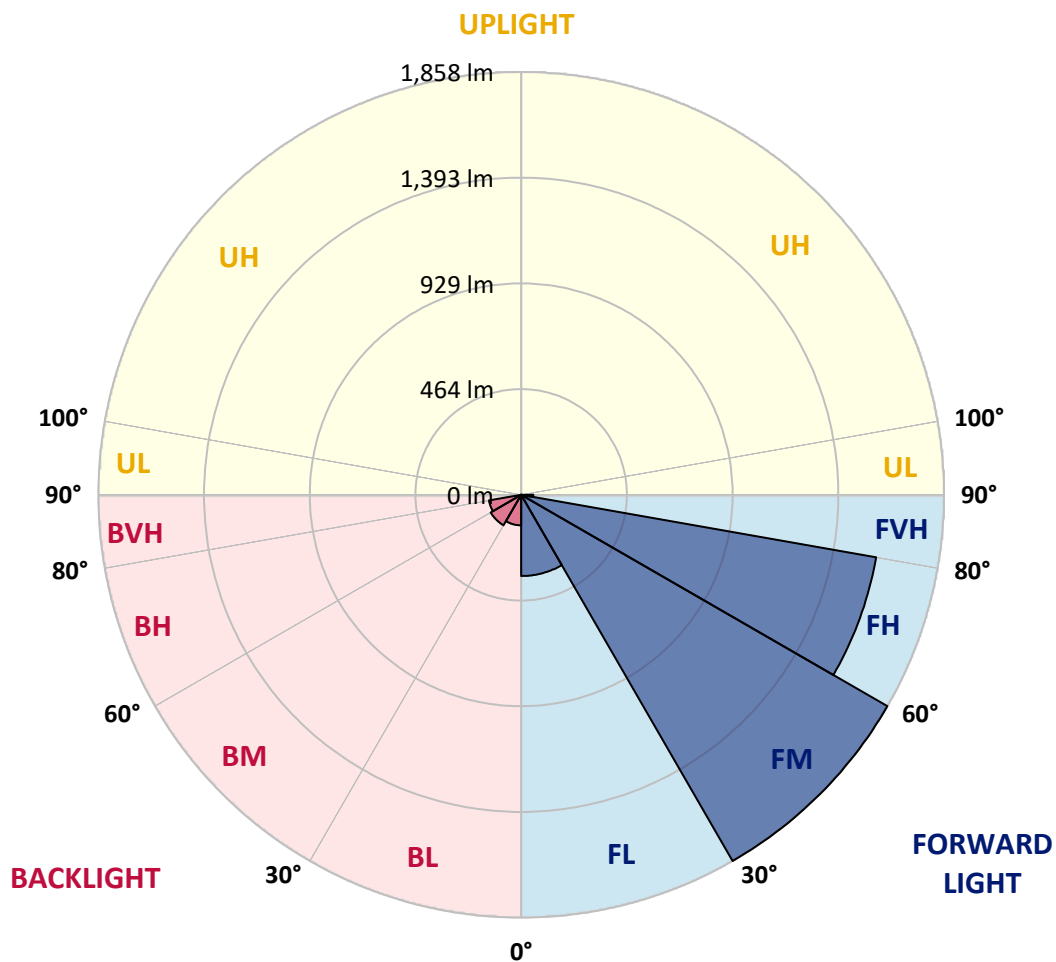
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.8	8.3			
FM	(30°-60°)	1857.8	43.3			
FH	(60°-80°)	1583.7	36.9			G1/1800
FVH	(80°-90°)	53.7	1.3			G1/100
BL	(0°-30°)	134.0	3.1	B1/500		
BM	(30°-60°)	154.6	3.6	B0/220		
BH	(60°-80°)	143.4	3.3	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	1004.3	1005.1	1004.8	1005.7	1005.1	1000.1	994.7	983.1	984.3	969.5	952.9
5°	933.7	939.4	945.1	950.9	964.7	976.7	991.3	994.7	994.7	981.8	957.7
7.5°	861.7	862.1	868.4	876.1	894.7	916.9	950.5	980.8	981.5	984.8	958.3
10°	807.5	809.3	813.5	821.9	840.5	862.5	900.0	947.5	951.2	976.1	951.6
12.5°	765.4	767.5	772.3	782.0	798.9	821.3	861.0	915.3	920.3	967.7	949.5
15°	733.1	735.8	739.6	749.4	767.5	791.3	834.7	893.6	899.7	964.3	955.9
17.5°	719.7	719.7	719.5	726.1	744.2	768.5	814.0	882.2	890.0	967.0	966.7
20°	725.4	724.5	717.3	715.7	726.8	751.1	797.4	874.8	883.6	972.1	979.8
22.5°	755.7	753.7	737.9	724.8	721.3	737.6	786.3	869.7	880.2	982.4	997.3
25°	820.1	814.0	792.0	762.4	735.8	734.2	778.7	867.1	878.3	994.7	1016.5
27.5°	903.4	901.8	866.8	827.1	775.9	745.2	776.2	865.1	876.1	1003.3	1032.0
30°	1007.1	1007.7	967.4	915.6	838.2	776.6	783.6	864.1	875.5	1004.0	1038.7
32.5°	1114.1	1114.7	1081.1	1025.5	923.3	830.5	804.5	868.8	879.3	1001.3	1038.4
35°	1217.1	1218.0	1197.8	1153.1	1037.1	905.1	843.9	884.9	892.3	1003.0	1037.7
37.5°	1347.3	1351.3	1326.3	1284.7	1179.7	1014.7	908.1	917.6	923.5	1016.8	1042.8
40°	1569.2	1563.9	1492.7	1421.9	1334.4	1148.4	1001.0	973.8	975.7	1052.5	1061.8
42.5°	1828.1	1821.4	1699.1	1577.3	1493.6	1309.5	1119.7	1059.9	1059.6	1112.5	1103.7
45°	2050.8	2046.8	1918.2	1755.6	1669.9	1487.6	1266.2	1184.1	1180.1	1216.0	1179.7
47.5°	2208.9	2205.6	2108.3	1945.5	1873.9	1683.3	1448.8	1353.2	1344.9	1351.6	1303.1
50°	2224.5	2220.7	2186.7	2082.1	2112.1	1970.7	1674.6	1575.0	1564.3	1553.8	1489.8
52.5°	2079.8	2079.3	2097.3	2090.4	2278.9	2340.5	1951.6	1849.3	1836.5	1809.8	1746.2
55°	1783.9	1782.2	1849.9	1948.2	2275.2	2722.0	2373.9	2175.7	2158.7	2105.6	2022.3
57.5°	1303.5	1294.7	1436.1	1644.3	2115.4	2888.9	3044.4	2581.1	2553.2	2384.6	2256.1
60°	719.7	723.0	904.8	1151.4	1736.9	2856.0	3661.5	3053.8	2980.4	2625.1	2495.6
62.5°	403.3	411.9	547.1	748.3	1107.3	2588.5	3992.5	3867.5	3690.7	2905.7	2798.4
65°	305.2	310.3	378.1	577.4	698.3	1808.8	4045.3	5005.0	4852.6	3331.1	3280.6
67.5°	287.4	291.4	324.6	478.7	635.9	938.1	3647.7	5677.9	5697.1	3911.2	3654.0
68°	289.3	294.5	327.7	460.7	634.9	839.1	3478.1	5681.3	5722.1	4004.7	3641.3
70°	265.8	267.2	346.6	451.8	615.3	661.2	2516.2	5292.1	5365.0	4116.0	3305.6
72.5°	101.6	102.0	155.4	391.3	644.7	664.8	1267.5	4182.7	4186.5	3582.1	2577.1
75°	52.8	44.5	48.8	122.4	615.8	648.0	635.9	2856.0	2838.1	2422.5	1579.1
77.5°	36.3	30.9	32.7	42.4	256.0	647.7	459.4	1642.3	1638.6	1030.6	450.5
80°	20.5	17.8	19.6	35.7	89.8	608.1	428.0	705.9	665.3	181.0	73.0
82.5°	10.4	8.8	10.4	30.0	55.9	382.6	416.3	276.9	246.7	43.1	47.4
85°	2.6	2.6	5.0	20.9	34.7	125.6	373.2	199.9	179.8	18.9	33.6
87.5°	0.7	0.3	2.1	7.7	12.4	27.3	206.9	111.4	95.8	9.7	19.6
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°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	946.2	936.8	918.2	897.3	882.6	866.4	857.1	845.6	836.9	829.0	834.7
5°	942.9	924.6	883.6	837.5	798.9	761.8	734.2	708.0	688.1	675.6	680.6
7.5°	934.1	907.1	840.5	768.5	705.3	645.7	597.3	553.9	520.2	502.1	507.7
10°	919.2	881.1	791.8	691.8	603.3	519.2	447.1	382.6	333.8	311.0	316.4
12.5°	908.5	858.3	741.2	617.8	501.3	381.9	286.3	212.3	174.4	151.5	153.4
15°	903.8	840.5	694.1	539.7	390.0	245.2	154.8	112.1	99.0	94.2	94.5
17.5°	904.5	826.4	649.4	458.7	277.5	140.9	95.0	85.5	83.5	82.5	82.5
20°	906.1	812.2	602.9	374.1	177.7	90.9	79.1	76.0	75.0	73.8	74.0
22.5°	911.2	801.5	556.2	289.3	109.4	74.0	70.0	67.4	65.7	63.6	63.9
25°	918.8	793.5	510.1	208.2	77.1	64.6	60.9	57.2	54.2	51.8	52.1
27.5°	923.5	782.0	461.0	142.0	63.9	56.6	51.6	46.4	43.1	41.1	40.8
30°	920.3	763.5	405.1	93.2	56.6	48.8	42.7	37.0	33.6	32.0	32.0
32.5°	911.2	739.6	343.5	67.9	50.1	42.1	34.7	29.6	27.3	26.2	26.6
35°	900.7	714.7	277.9	57.5	45.0	35.7	28.2	24.3	23.3	22.8	22.8
37.5°	895.0	693.1	215.1	52.1	40.3	29.6	23.3	20.9	19.9	19.9	19.9
40°	901.4	676.7	159.2	48.1	35.7	24.6	19.6	17.8	17.4	17.4	17.4
42.5°	928.7	670.9	116.4	44.7	30.9	20.5	16.8	15.5	15.1	15.5	15.5
45°	981.8	683.4	88.2	41.4	26.6	16.8	14.5	13.5	13.5	13.8	13.8
47.5°	1071.9	715.3	72.4	38.0	22.2	14.2	12.4	11.8	11.8	12.0	12.0
50°	1212.0	774.6	64.9	34.3	18.5	12.0	10.4	10.2	10.2	10.4	10.8
52.5°	1424.6	887.3	61.3	30.6	15.1	10.2	8.8	8.4	8.8	9.2	9.2
55°	1661.1	1031.7	56.9	26.9	12.8	8.4	7.0	7.0	7.4	8.1	8.1
57.5°	1881.6	1170.9	52.8	22.2	11.0	6.7	5.7	5.7	6.4	7.0	7.0
60°	2114.4	1307.6	47.4	17.8	9.4	5.4	4.8	4.8	5.7	6.4	6.7
62.5°	2402.1	1466.4	40.3	14.2	7.4	4.0	3.4	4.4	5.4	6.4	6.4
65°	2818.0	1663.9	31.6	11.0	5.7	3.1	2.6	4.0	5.0	6.1	6.4
67.5°	2969.1	1638.6	23.9	9.2	4.4	2.3	2.3	3.8	5.0	6.1	6.1
68°	2913.8	1583.4	22.8	8.8	4.0	2.3	2.3	3.8	5.0	6.1	6.1
70°	2539.0	1294.4	18.9	6.7	3.4	2.1	2.1	3.4	5.0	5.7	6.1
72.5°	1901.1	860.0	16.2	4.4	3.1	2.1	1.6	3.4	4.8	5.7	5.7
75°	1090.5	356.9	13.8	3.4	2.6	1.6	1.6	3.1	4.8	5.7	5.7
77.5°	308.2	83.5	11.0	2.6	2.3	1.6	1.3	3.1	4.4	5.4	5.4
80°	56.6	25.0	8.8	2.3	2.1	1.6	1.3	3.1	4.4	5.4	5.4
82.5°	37.4	11.8	6.4	2.3	2.1	1.6	1.3	2.6	4.0	5.0	5.0
85°	27.9	8.4	4.0	2.3	2.1	1.6	1.3	2.6	4.0	5.0	5.0
87.5°	15.5	3.8	3.1	2.6	2.3	1.6	1.3	2.3	3.8	4.8	4.8
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)