

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: McGRAW-EDISON

Report Number: P268991

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4920.1 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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: 25 FT

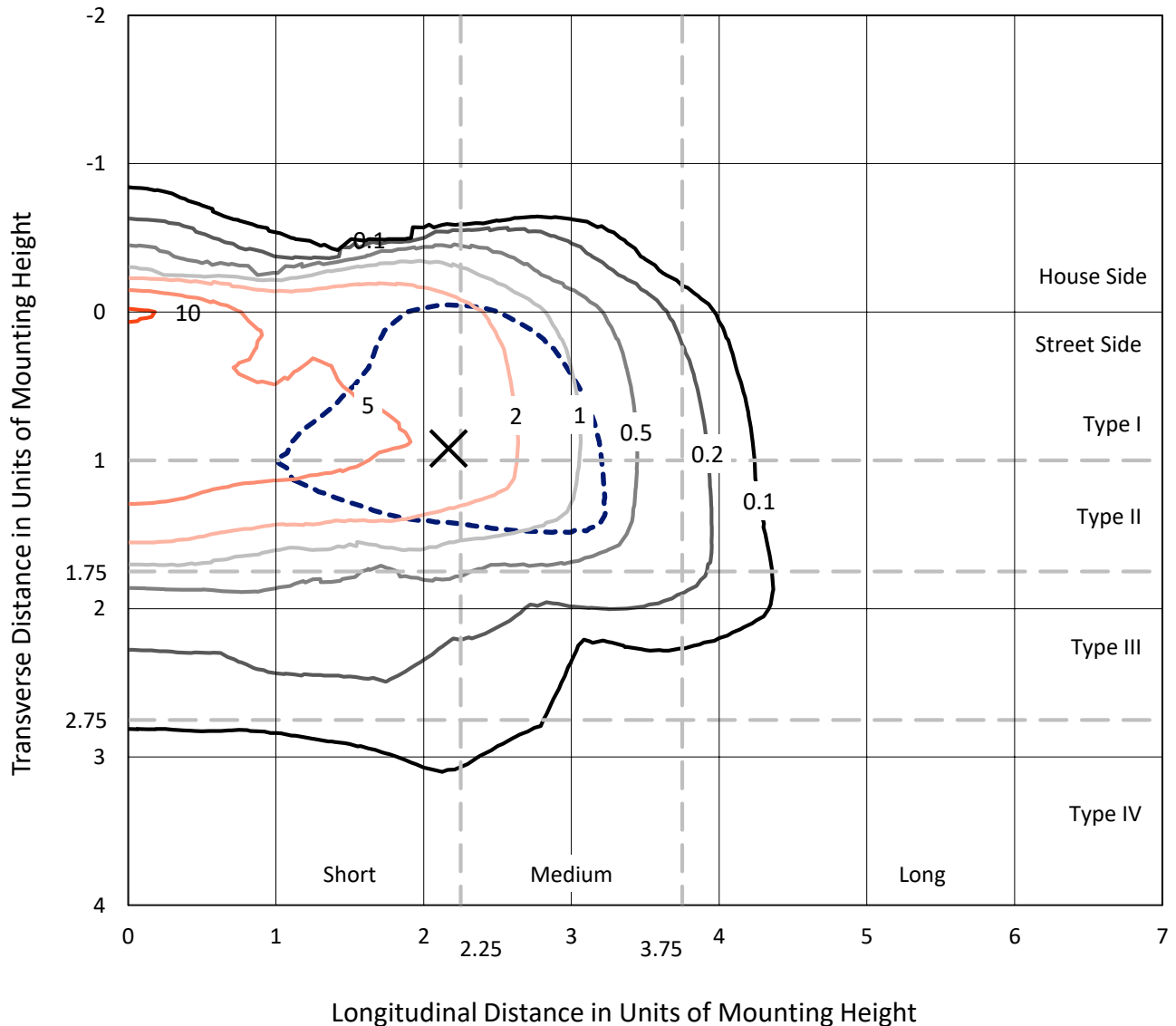


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

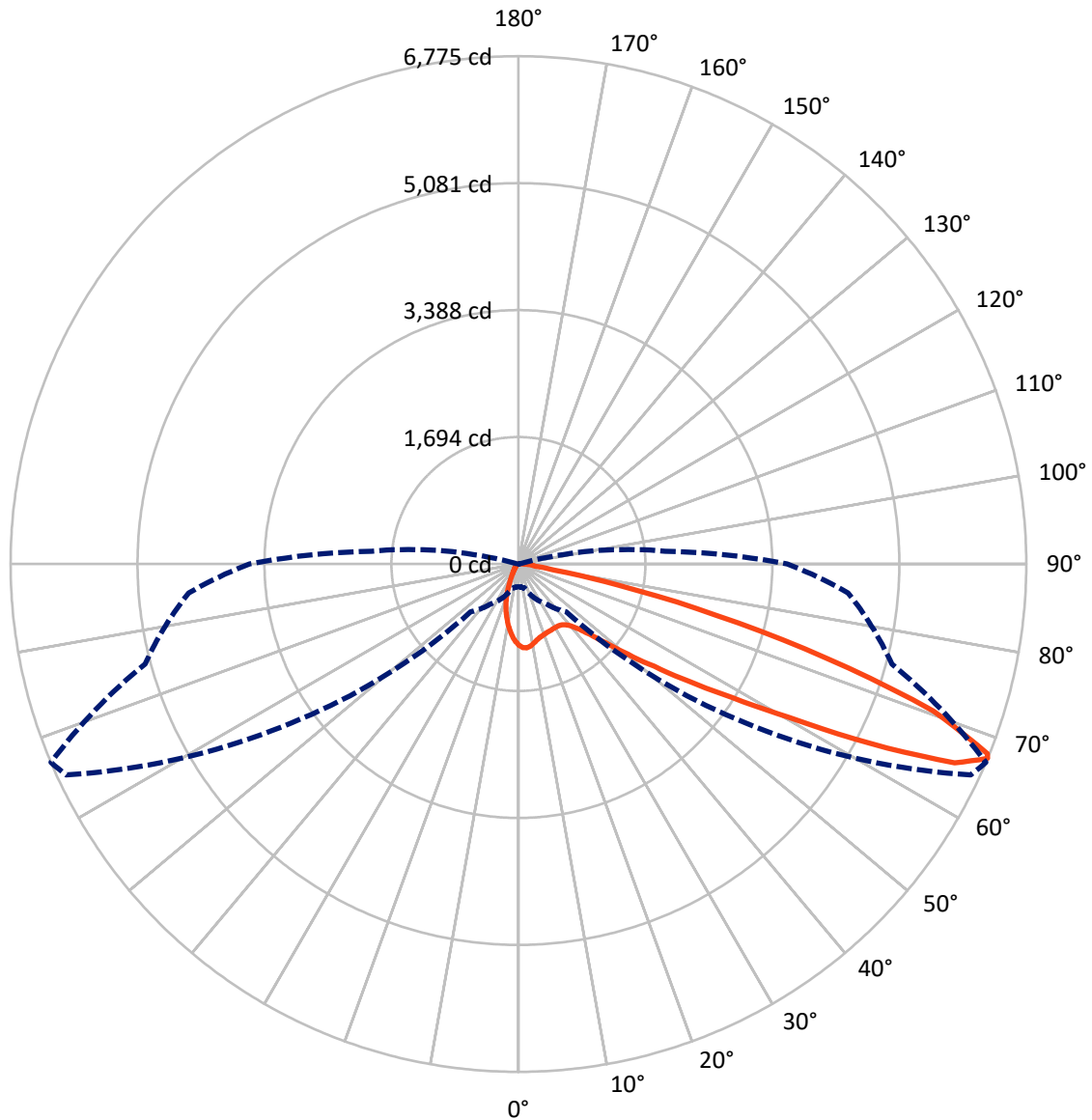


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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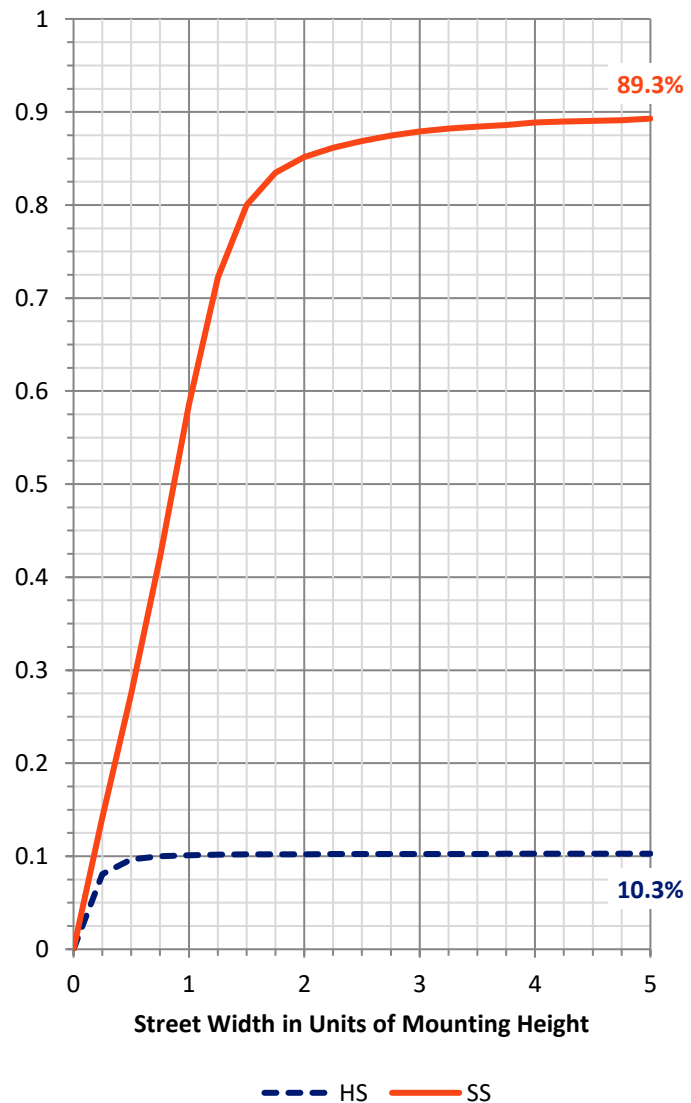
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.8	0.0	510.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4409.3	0.0	4409.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	4920.1	0.0	4920.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.8
10°-20°	187.9	3.8
20°-30°	273.2	5.6
30°-40°	426.2	8.7
40°-50°	755.0	15.3
50°-60°	1194.8	24.3
60°-70°	1368.4	27.8
70°-80°	567.6	11.5
80°-90°	58.6	1.2
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°	4920.1	100.0
0°-180°	4920.1	100.0



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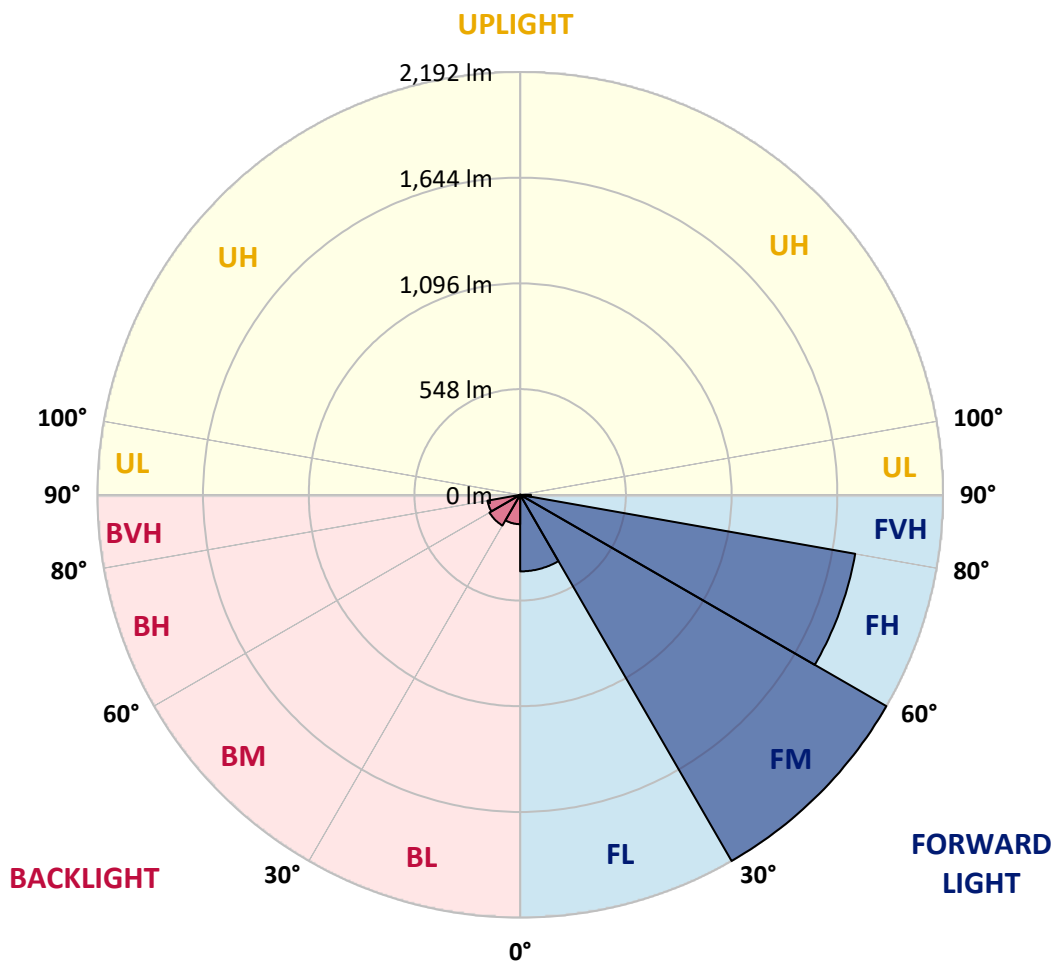
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.0	8.1			
FM (30°-60°)	2192.4	44.6			
FH (60°-80°)	1763.9	35.9			G1/1800
FVH (80°-90°)	56.0	1.1			G1/100
BL (0°-30°)	152.4	3.1	B1/500		
BM (30°-60°)	183.6	3.7	B0/220		
BH (60°-80°)	172.2	3.5	B1/500		G1/500
BVH (80°-90°)	2.6	0.1			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1121.9	1124.0	1123.8	1125.5	1129.6	1129.9	1125.8	1118.1	1116.4	1106.4	1088.8
5°	1034.6	1041.1	1045.2	1061.5	1079.9	1102.0	1118.7	1124.7	1123.8	1116.7	1090.3
7.5°	935.0	941.7	946.2	965.4	989.8	1027.8	1071.0	1106.6	1109.8	1117.5	1089.0
10°	868.8	869.9	876.1	894.5	920.0	958.9	1010.5	1072.8	1082.2	1110.7	1086.2
12.5°	814.1	815.0	823.3	843.1	870.4	909.4	963.7	1035.7	1050.4	1102.0	1085.6
15°	775.4	778.7	786.0	806.7	835.8	874.4	930.1	1008.4	1026.0	1098.8	1090.8
17.5°	762.5	766.0	768.2	783.2	809.6	847.5	904.6	990.7	1010.5	1100.6	1100.9
20°	776.0	778.7	773.4	777.2	793.6	827.3	883.0	975.5	998.9	1102.6	1113.8
22.5°	826.3	827.3	813.3	796.9	794.1	812.7	866.1	963.4	988.7	1108.0	1129.0
25°	912.3	910.3	887.3	852.0	818.7	810.1	856.1	955.9	983.5	1113.8	1144.8
27.5°	1016.3	1019.0	987.4	936.2	872.8	827.3	854.6	952.8	981.2	1117.9	1158.5
30°	1142.5	1146.4	1110.3	1045.7	954.8	869.9	867.9	952.3	979.7	1115.2	1159.7
32.5°	1271.3	1276.2	1247.7	1181.2	1064.4	941.1	897.6	958.5	982.7	1106.4	1153.1
35°	1406.1	1413.2	1394.2	1337.0	1213.2	1043.7	950.1	977.7	996.1	1105.5	1146.4
37.5°	1592.4	1598.8	1563.2	1502.7	1393.0	1181.5	1034.6	1013.8	1028.0	1119.2	1148.3
40°	1870.5	1869.7	1777.8	1685.2	1590.8	1356.6	1153.1	1079.4	1086.5	1160.8	1169.5
42.5°	2173.5	2172.2	2036.4	1895.6	1810.3	1572.0	1308.9	1192.4	1187.5	1237.4	1224.6
45°	2407.2	2406.9	2296.2	2137.4	2074.5	1819.4	1510.4	1349.7	1342.2	1362.0	1326.2
47.5°	2506.8	2508.4	2452.8	2341.3	2367.7	2154.0	1764.5	1577.6	1566.4	1558.3	1503.9
50°	2429.2	2432.7	2437.3	2415.5	2582.5	2603.7	2105.0	1898.7	1893.2	1857.3	1772.0
52.5°	2176.1	2193.8	2247.6	2316.8	2657.1	3035.5	2639.1	2297.5	2268.3	2230.1	2136.3
55°	1749.7	1768.9	1871.3	2039.3	2546.1	3319.0	3387.5	2811.9	2763.0	2649.1	2513.6
57.5°	1157.9	1187.7	1336.5	1549.9	2223.6	3364.6	4134.3	3525.6	3355.7	3043.7	2891.0
60°	637.9	666.6	828.0	1021.4	1606.0	3138.9	4636.5	4454.9	4154.7	3484.9	3349.4
62.5°	392.9	408.4	527.5	707.4	963.2	2477.5	4740.4	5622.5	5274.9	4052.8	3903.0
65°	312.8	319.3	377.6	578.2	690.4	1473.7	4404.8	6512.7	6396.8	4740.4	4398.6
67°	303.6	306.2	333.8	496.5	650.9	903.4	3690.2	6657.7	6775.3	5156.5	4414.1
67.5°	305.7	308.5	334.6	473.8	649.7	830.3	3444.1	6600.6	6749.2	5189.5	4345.6
70°	294.7	303.6	383.0	473.5	617.9	689.9	2062.6	5719.0	5873.7	4821.8	3687.2
72.5°	104.5	105.0	165.6	383.0	671.8	697.4	1035.7	4192.5	4307.1	3688.6	2658.4
75°	62.1	52.8	55.1	109.1	642.0	677.3	597.6	2678.9	2721.8	2113.6	1346.2
77.5°	42.8	37.3	38.4	48.1	244.5	667.8	474.7	1397.0	1351.4	741.3	286.6
80°	24.4	21.5	22.9	42.2	88.9	623.1	447.6	566.6	483.0	125.8	79.2
82.5°	12.9	10.9	13.2	34.8	62.1	388.2	448.6	273.8	217.0	42.5	54.0
85°	4.6	3.8	6.3	23.9	41.3	119.0	415.8	230.1	180.7	20.8	41.1
87.5°	0.9	0.9	2.5	9.7	16.7	36.4	246.0	136.6	91.5	12.3	28.1
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°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1081.6	1069.3	1052.6	1032.3	1008.2	987.0	971.2	954.8	951.3	945.6	944.7
5°	1074.5	1053.3	1011.9	964.5	914.0	868.4	831.4	798.4	783.7	771.1	769.7
7.5°	1063.9	1032.1	961.6	885.3	806.4	734.6	673.8	630.8	591.2	572.2	569.3
10°	1051.5	1005.9	905.1	799.2	690.2	588.8	498.5	422.7	376.7	349.5	346.0
12.5°	1040.0	980.3	847.5	710.0	565.0	429.6	313.4	241.0	192.9	173.4	171.0
15°	1034.6	959.7	793.6	618.8	434.2	273.5	171.3	132.6	116.8	112.2	111.8
17.5°	1033.9	942.1	740.7	524.3	304.2	159.0	111.6	101.9	98.8	97.6	97.6
20°	1033.7	925.6	687.9	426.4	193.1	105.9	93.0	90.6	88.5	87.0	87.0
22.5°	1036.9	910.6	632.8	326.5	121.7	85.8	81.7	79.5	76.6	74.6	74.3
25°	1040.0	899.2	576.5	232.4	88.2	74.6	70.5	67.5	63.4	60.8	60.5
27.5°	1040.5	884.8	516.3	155.5	73.8	65.1	59.9	55.1	50.6	47.9	47.6
30°	1032.1	860.7	449.4	105.0	65.1	56.6	49.6	44.5	40.2	38.2	38.2
32.5°	1015.1	830.8	375.9	79.2	58.0	48.5	41.1	36.1	33.2	32.3	32.1
35°	999.9	798.7	300.5	67.2	51.9	41.1	33.5	30.5	28.7	28.3	28.1
37.5°	990.9	772.8	229.5	60.8	46.3	34.5	28.3	26.1	25.2	24.7	25.0
40°	997.8	751.3	169.6	55.7	40.5	28.7	24.2	22.9	22.1	21.7	21.7
42.5°	1028.0	747.6	126.0	51.1	35.0	23.9	20.9	20.1	19.6	19.3	19.6
45°	1107.3	770.6	97.8	46.8	29.6	20.1	17.7	17.4	17.2	17.2	17.2
47.5°	1226.2	817.8	81.4	42.0	24.7	17.2	15.5	15.2	14.9	15.2	15.2
50°	1428.0	904.6	72.9	37.0	20.4	14.6	13.2	13.2	13.2	13.2	13.5
52.5°	1734.7	1075.0	67.2	32.1	16.7	12.3	11.1	11.1	11.5	11.5	11.8
55°	2076.6	1301.1	62.1	27.3	14.1	10.3	9.3	9.4	9.7	10.1	10.1
57.5°	2447.4	1551.7	57.8	22.4	12.0	8.4	7.7	8.1	8.4	9.0	9.0
60°	2894.8	1822.9	51.4	17.4	10.1	6.6	6.0	6.6	7.5	8.1	8.4
62.5°	3386.2	2085.2	43.4	13.7	8.4	5.2	4.9	6.0	7.1	7.7	8.1
65°	3721.9	2167.6	33.2	11.1	6.3	3.8	4.0	5.5	6.8	7.7	7.7
67°	3585.9	1965.2	27.3	9.4	5.2	2.9	3.8	5.5	6.8	7.5	7.7
67.5°	3491.4	1886.0	26.1	9.3	4.9	2.9	3.8	5.5	6.8	7.7	7.7
70°	2840.8	1416.8	21.7	6.8	4.0	2.5	3.1	5.2	6.6	7.5	7.5
72.5°	1973.8	873.6	19.6	4.9	3.5	2.2	2.9	4.9	6.3	7.1	7.5
75°	938.4	316.3	16.7	3.8	3.1	1.9	2.5	4.9	6.3	7.1	7.1
77.5°	191.3	73.5	13.5	3.1	2.5	1.9	2.2	4.6	6.0	6.8	6.8
80°	62.8	28.3	10.1	2.9	2.5	1.9	2.2	4.3	6.0	6.6	6.8
82.5°	45.4	14.4	6.6	2.9	2.5	1.9	1.9	4.3	5.7	6.6	6.6
85°	34.8	10.1	4.3	2.9	2.5	1.9	1.9	4.0	5.5	6.3	6.3
87.5°	22.9	4.0	3.5	2.9	2.5	1.9	1.9	4.0	5.2	6.0	6.3
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)