

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: P191149

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4200.3 lumens  
Efficiency: N/A  
Efficacy: 123.5 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 - G1

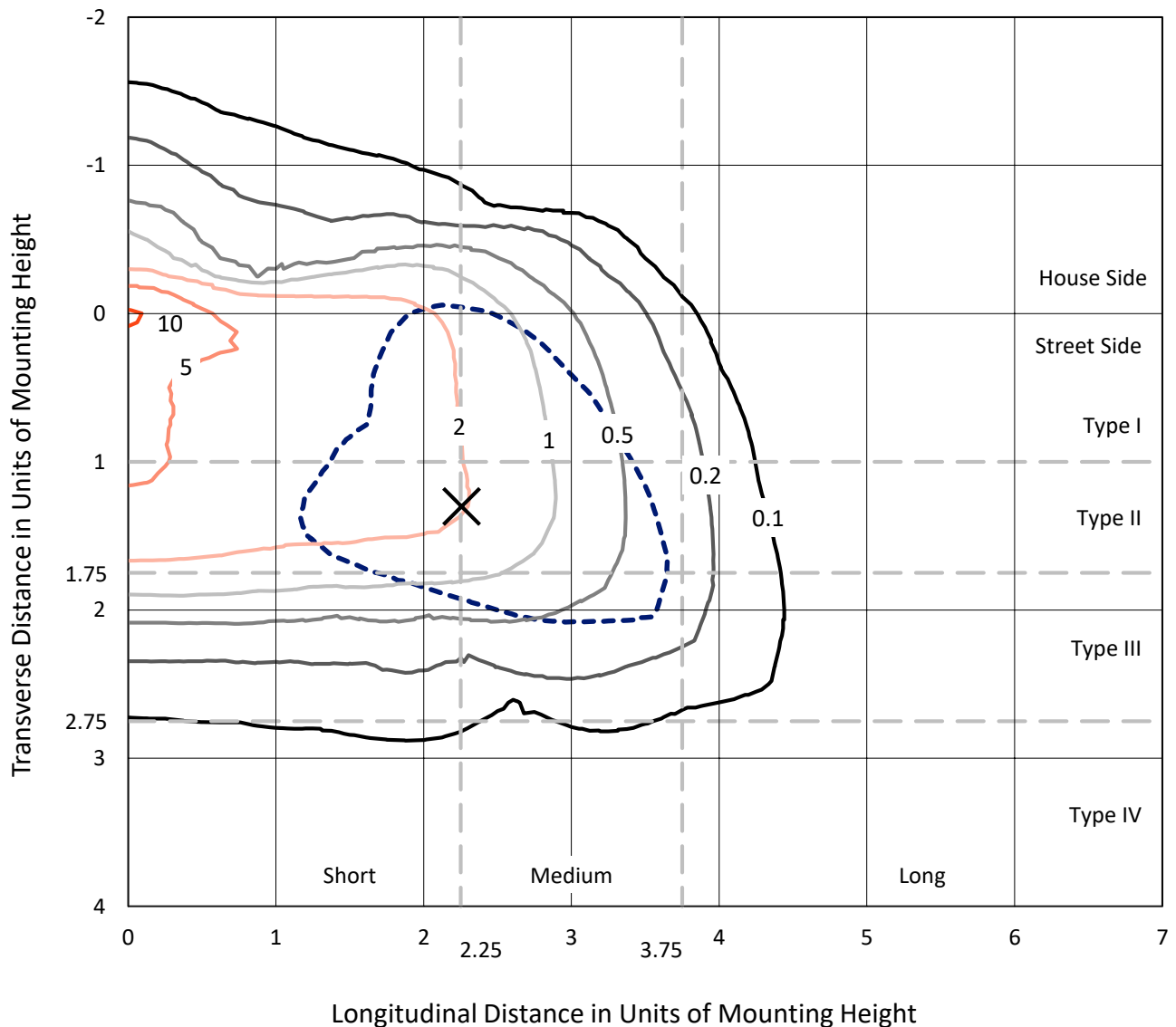
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

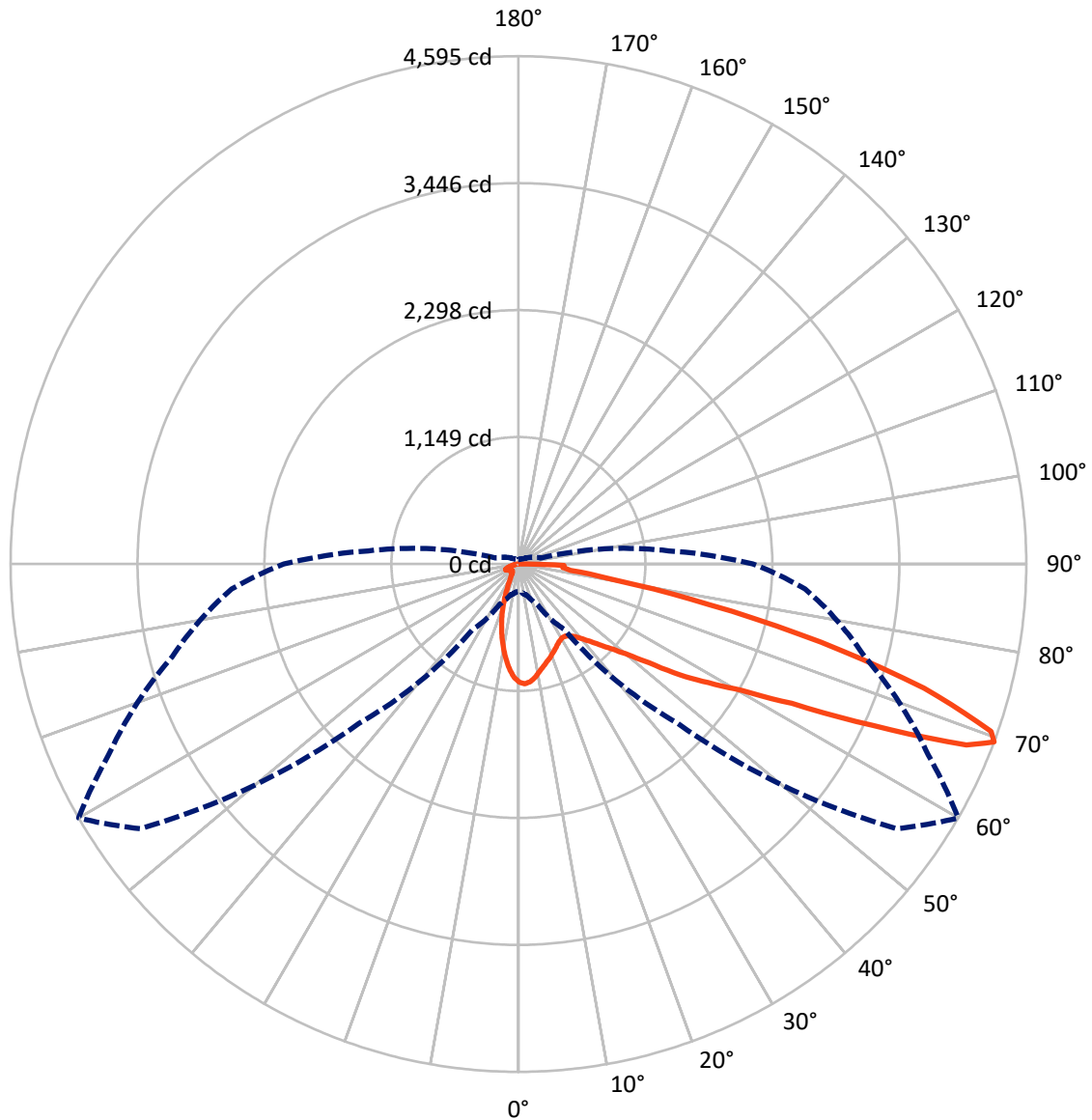
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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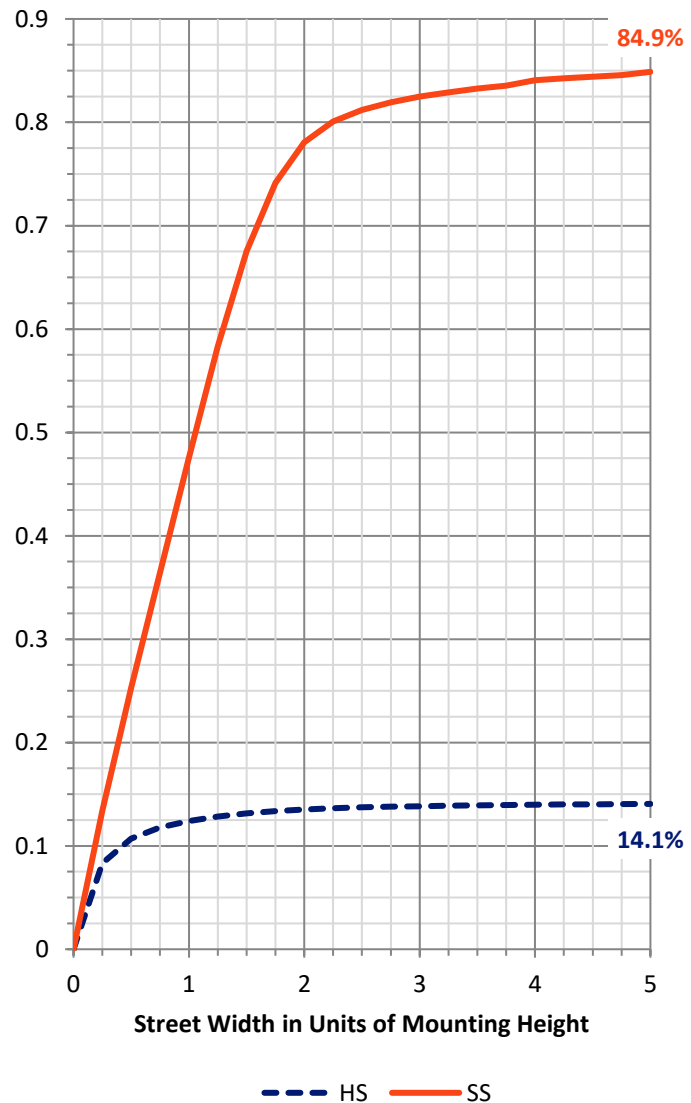
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	597.6	0.0	597.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3602.7	0.0	3602.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4200.3	0.0	4200.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	2.2
10°-20°	192.8	4.6
20°-30°	245.7	5.8
30°-40°	337.7	8.0
40°-50°	548.0	13.0
50°-60°	878.9	20.9
60°-70°	1169.7	27.8
70°-80°	631.6	15.0
80°-90°	105.4	2.5
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°	4200.3	100.0
0°-180°	4200.3	100.0



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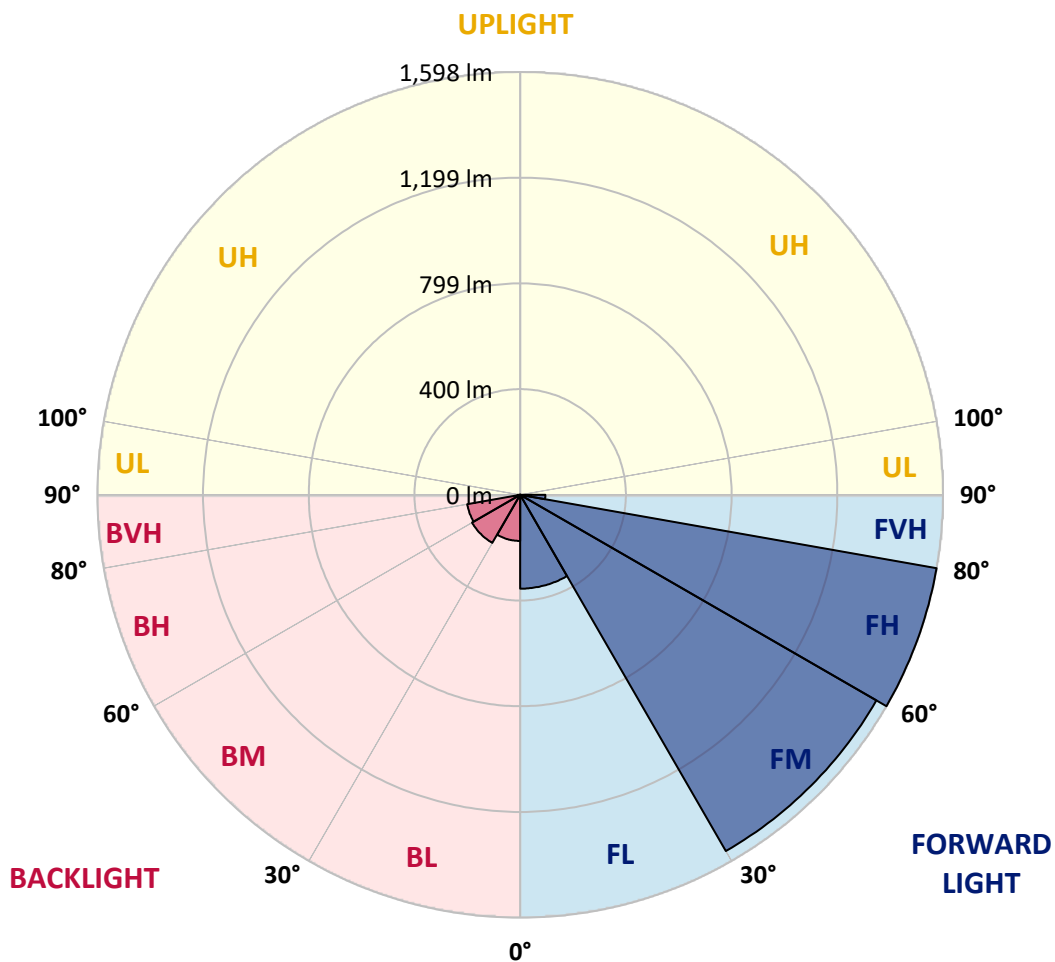
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.7	8.4			
FM	(30°-60°)	1554.7	37.0			
FH	(60°-80°)	1598.1	38.0			G1/1800
FVH	(80°-90°)	95.2	2.3			G1/100
BL	(0°-30°)	174.3	4.2	B1/500		
BM	(30°-60°)	209.9	5.0	B0/220		
BH	(60°-80°)	203.2	4.8	B1/500		G1/500
BVH	(80°-90°)	10.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1092.2	1094.7	1093.6	1093.0	1094.9	1092.0	1086.1	1084.3	1081.5	1074.7	1063.4
5°	1051.2	1058.5	1058.1	1063.6	1072.8	1075.1	1072.6	1072.9	1067.7	1059.4	1040.4
7.5°	980.4	983.5	985.1	997.1	1013.6	1027.0	1038.4	1042.1	1039.6	1032.6	1008.2
10°	907.4	909.8	913.6	927.6	948.8	967.2	988.7	1001.1	1006.4	1005.2	977.9
12.5°	844.7	847.1	852.2	868.0	893.1	915.8	947.2	962.5	975.1	982.6	953.4
15°	788.5	793.7	798.6	816.8	845.1	874.9	910.2	929.7	949.2	966.0	931.7
17.5°	744.6	749.9	752.8	769.4	799.4	836.0	877.3	900.3	924.6	952.2	910.2
20°	719.2	721.7	720.5	729.8	756.8	795.5	844.7	871.2	900.7	939.2	888.7
22.5°	712.2	712.4	707.9	706.9	724.4	757.0	809.8	842.0	878.1	930.7	870.2
25°	729.5	728.9	716.7	706.7	708.5	727.6	776.1	813.7	859.3	928.8	856.0
27.5°	767.7	769.6	751.6	732.8	714.4	713.8	750.5	790.1	843.8	937.2	850.0
30°	821.5	824.6	805.3	781.5	746.9	718.2	740.6	776.1	834.3	954.4	848.9
32.5°	880.4	883.6	869.0	844.0	798.6	745.8	747.5	777.3	833.9	978.6	855.8
35°	943.1	946.7	939.2	918.1	867.6	796.8	773.9	797.0	847.1	1015.5	874.3
37.5°	1013.0	1018.8	1020.8	1000.7	946.7	864.0	817.0	834.3	876.9	1066.8	908.2
40°	1113.9	1121.9	1121.3	1092.4	1037.4	954.6	883.8	888.3	923.4	1135.4	962.4
42.5°	1307.0	1308.7	1258.1	1195.5	1137.2	1050.0	962.5	958.9	987.5	1222.2	1042.1
45°	1552.7	1546.1	1433.7	1312.5	1241.6	1159.5	1065.0	1047.2	1068.9	1328.2	1141.9
47.5°	1756.7	1741.3	1599.3	1432.0	1351.9	1278.7	1185.3	1154.1	1166.1	1448.3	1270.9
50°	1827.5	1815.9	1698.2	1531.5	1456.4	1423.9	1333.4	1289.2	1292.5	1591.5	1422.1
52.5°	1812.3	1810.6	1732.2	1597.0	1554.2	1576.5	1543.2	1483.4	1451.8	1750.6	1585.3
55°	1776.4	1779.8	1751.4	1673.3	1666.0	1723.8	1817.4	1773.1	1674.7	1911.1	1753.8
57.5°	1651.6	1660.6	1723.0	1769.3	1845.9	1931.9	2038.1	2025.5	1914.8	2084.6	1954.3
60°	1330.6	1351.3	1518.9	1750.6	2031.2	2300.2	2347.8	2318.5	2162.3	2299.8	2219.1
62.5°	932.3	953.8	1153.1	1515.6	2000.8	2716.1	2901.2	2775.3	2517.8	2617.0	2561.8
65°	499.1	509.4	661.6	1051.6	1689.1	2802.0	3710.1	3518.4	3080.6	3008.0	2855.0
67.5°	275.4	281.0	339.2	531.0	1081.9	2467.5	4225.5	4370.5	3784.0	3268.2	2801.7
69°	249.0	254.2	292.4	402.1	723.9	2040.2	4175.2	4595.0	4092.4	3242.5	2604.4
70°	243.5	248.4	282.6	370.7	585.9	1681.6	4006.6	4537.6	4165.9	3150.2	2432.4
72.5°	219.1	224.4	257.7	333.0	500.7	838.4	3173.7	3836.6	3782.3	2731.4	1845.0
75°	204.3	209.2	265.6	326.0	479.5	530.6	2092.2	2827.5	2780.3	1910.7	994.8
77.5°	87.5	87.1	123.2	275.9	486.5	513.7	1124.2	1766.4	1611.7	816.6	285.7
80°	58.4	57.4	58.4	81.1	446.2	516.6	589.0	896.6	677.3	208.2	140.9
82.5°	50.3	49.5	51.4	49.5	156.8	589.6	500.7	476.8	322.0	118.3	69.8
85°	33.9	32.4	44.2	44.4	74.1	523.9	564.1	402.7	260.5	70.2	34.5
87.5°	16.3	15.9	25.8	31.4	43.4	212.9	632.8	412.7	262.8	35.9	16.5
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°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1060.0	1051.6	1043.5	1033.8	1023.7	1012.2	1006.6	1000.9	999.4	997.9	992.2
5°	1030.7	1019.0	998.7	976.3	952.8	929.9	912.5	901.4	893.1	888.9	881.4
7.5°	993.0	975.7	940.2	901.6	862.1	826.0	794.7	775.1	756.4	747.7	737.8
10°	957.1	931.3	876.2	819.3	762.5	707.9	656.5	620.2	588.0	570.0	557.2
12.5°	926.2	890.9	814.5	737.5	659.6	582.0	505.0	444.6	394.0	367.4	353.8
15°	896.2	853.6	755.8	658.2	558.1	452.5	351.4	282.8	241.0	224.4	218.7
17.5°	869.0	814.5	696.9	578.3	453.5	325.6	236.2	198.5	182.4	177.0	175.1
20°	839.6	774.9	635.9	494.7	344.3	227.6	184.4	167.8	161.3	159.7	158.9
22.5°	811.2	735.9	577.5	405.2	247.3	175.7	158.5	151.6	150.6	152.0	152.0
25°	787.1	701.0	514.3	311.7	181.6	147.9	141.8	140.2	144.0	149.4	150.4
27.5°	769.0	672.4	447.2	230.1	144.6	128.7	128.5	131.0	140.7	150.8	152.8
30°	756.6	645.2	375.3	165.9	121.3	113.2	116.5	122.1	136.2	150.6	154.4
32.5°	750.3	625.1	300.4	128.5	103.9	99.4	104.9	111.8	125.6	139.0	144.0
35°	755.1	610.3	229.9	107.1	91.8	88.3	93.9	100.7	108.7	114.5	118.3
37.5°	773.5	604.5	173.5	96.0	83.4	80.1	84.6	88.5	91.8	93.3	95.1
40°	812.8	610.7	139.0	90.3	78.8	74.7	76.5	77.9	79.9	81.5	82.3
42.5°	870.8	629.6	124.6	88.1	76.3	70.4	70.0	70.6	73.2	76.3	76.9
45°	952.0	662.9	123.6	89.5	75.1	67.0	65.2	66.0	70.0	74.7	75.5
47.5°	1055.7	713.6	131.7	93.7	76.1	65.2	62.1	63.1	68.1	74.5	75.5
50°	1181.3	784.4	145.3	100.0	80.5	65.6	61.1	61.7	67.0	73.9	74.9
52.5°	1329.6	884.9	160.1	106.1	85.2	68.1	61.9	60.5	65.4	71.4	72.6
55°	1494.5	1013.6	175.3	111.6	87.7	71.4	63.5	58.8	62.3	67.4	68.3
57.5°	1697.1	1193.9	201.7	116.8	89.3	73.7	65.2	57.2	58.4	62.1	62.9
60°	1971.1	1448.7	248.2	125.6	92.9	74.5	65.0	55.8	54.6	56.6	57.0
62.5°	2299.6	1725.4	286.9	136.6	99.0	75.1	63.7	54.8	51.4	51.4	51.8
65°	2494.7	1799.5	265.4	145.7	104.1	74.5	62.3	53.8	48.9	46.6	46.9
67.5°	2329.3	1582.6	227.4	147.5	103.9	71.6	60.0	52.0	46.4	43.0	42.9
69°	2122.1	1365.5	210.4	142.6	99.0	67.9	57.2	49.9	44.6	41.0	40.8
70°	1955.2	1233.0	199.3	137.4	93.7	65.4	55.0	48.1	43.2	39.8	39.4
72.5°	1421.5	807.9	170.2	118.0	77.3	54.8	47.5	42.2	38.6	36.5	36.1
75°	710.3	385.3	138.2	95.7	59.2	43.8	39.0	35.3	33.5	33.0	32.8
77.5°	233.3	176.6	98.8	71.4	44.0	34.3	31.4	28.8	28.4	29.7	29.3
80°	128.3	102.7	62.7	47.3	30.1	25.2	24.8	23.3	23.9	26.0	25.6
82.5°	65.4	53.4	38.8	28.4	20.3	18.1	19.6	18.8	19.6	21.5	21.3
85°	32.2	29.3	24.6	17.3	13.4	11.6	14.0	14.6	15.0	16.5	16.5
87.5°	18.6	17.3	13.0	8.1	6.6	6.1	8.1	7.9	9.3	10.1	9.9
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)