

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: P269001

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5144.9 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

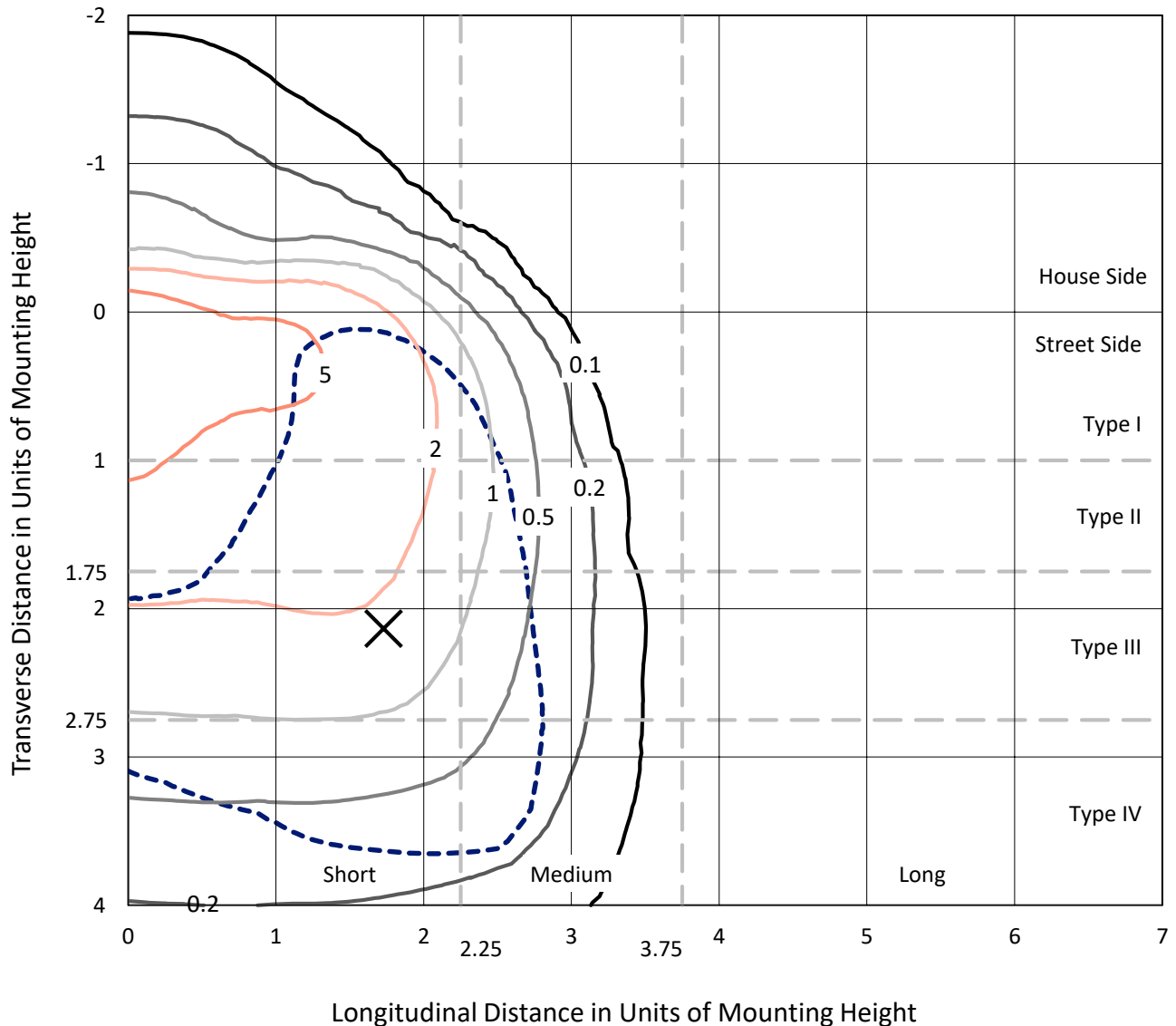
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

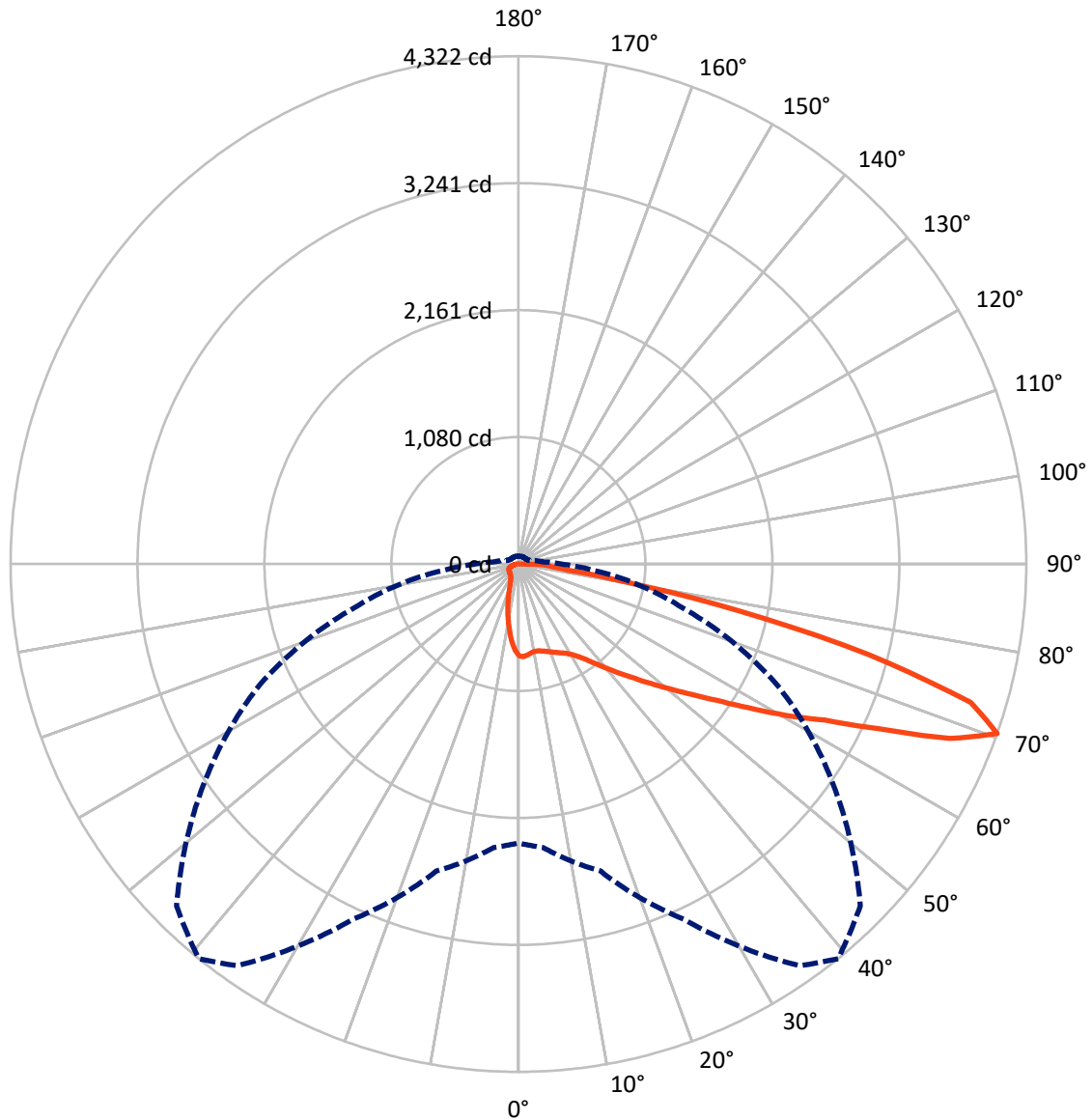
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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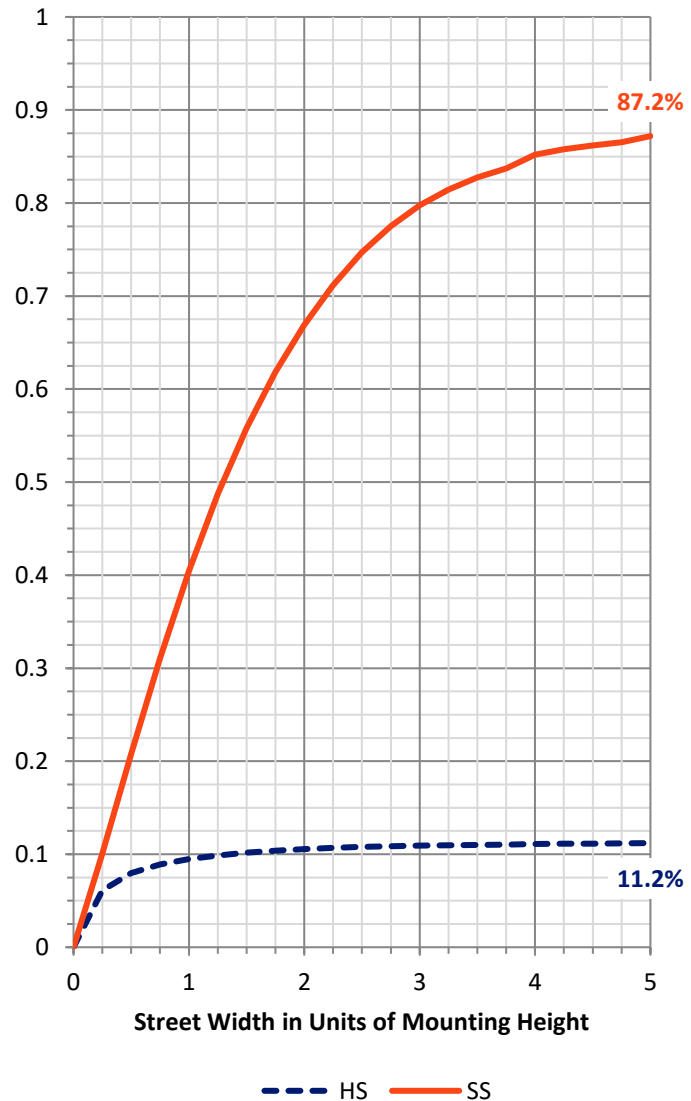
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	585.2	0.0	585.2
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	4559.8	0.0	4559.8
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	5144.9	0.0	5144.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.3
10°-20°	167.6	3.3
20°-30°	260.9	5.1
30°-40°	406.4	7.9
40°-50°	682.3	13.3
50°-60°	1083.9	21.1
60°-70°	1445.8	28.1
70°-80°	873.1	17.0
80°-90°	158.0	3.1
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°	5144.9	100.0
0°-180°	5144.9	100.0



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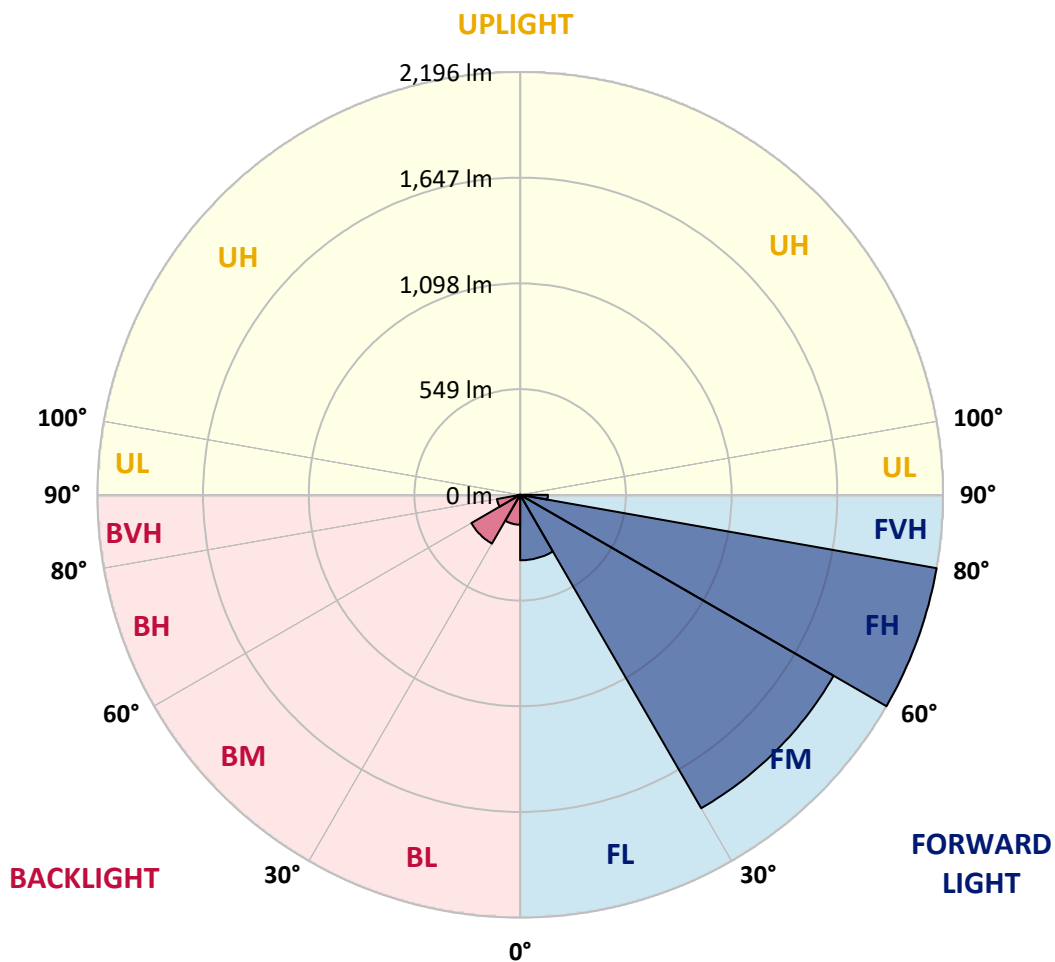
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.2	6.6			
FM	(30°-60°)	1879.8	36.5			
FH	(60°-80°)	2196.0	42.7			G2/5000
FVH	(80°-90°)	143.8	2.8			G2/225
BL	(0°-30°)	155.2	3.0	B1/500		
BM	(30°-60°)	292.8	5.7	B1/1000		
BH	(60°-80°)	122.8	2.4	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0
2.5°	796.3	796.0	793.9	792.3	791.0	790.5	791.5	787.6	784.2	780.1	775.5
5°	790.1	790.0	786.6	783.4	780.3	779.3	779.0	772.0	767.7	761.5	753.0
7.5°	783.7	782.3	777.9	772.7	767.2	764.5	762.0	752.8	748.1	741.8	732.2
10°	776.9	775.3	771.1	766.0	760.7	756.7	752.3	743.3	738.4	733.7	722.4
12.5°	769.8	768.5	767.5	765.1	761.5	758.1	754.7	747.1	741.8	736.3	723.2
15°	768.8	768.3	770.7	772.3	770.0	768.1	764.4	757.8	752.3	746.9	729.9
17.5°	777.2	776.9	783.0	787.0	786.0	782.3	777.5	770.0	765.6	761.0	739.8
20°	795.4	796.7	804.2	809.6	804.3	799.1	791.0	780.8	778.6	776.3	749.9
22.5°	830.0	831.3	836.5	838.7	825.1	817.5	806.1	793.2	791.5	793.2	762.2
25°	883.9	882.6	881.7	874.0	849.1	837.3	822.9	809.4	810.1	817.2	779.5
27.5°	955.3	948.3	937.2	913.7	874.2	861.1	843.6	831.0	836.1	849.5	805.4
30°	1029.3	1021.5	996.1	957.7	907.2	892.7	873.2	859.0	872.2	893.5	839.9
32.5°	1097.9	1096.8	1059.7	1010.2	952.7	940.2	920.6	904.6	925.8	958.4	891.7
35°	1172.6	1175.1	1130.5	1071.1	1014.1	1001.2	987.0	974.9	1003.1	1048.1	966.8
37.5°	1252.6	1257.4	1204.8	1137.9	1084.3	1078.8	1070.4	1065.2	1108.9	1171.1	1071.7
40°	1359.8	1355.1	1282.1	1213.3	1170.3	1170.0	1167.4	1173.7	1246.4	1331.6	1206.5
42.5°	1474.3	1460.5	1363.8	1294.1	1264.8	1273.6	1278.8	1304.5	1412.0	1526.8	1370.6
45°	1597.7	1566.6	1448.8	1379.5	1369.6	1388.5	1406.2	1462.0	1606.9	1748.9	1550.7
47.5°	1696.4	1666.3	1536.8	1469.3	1490.9	1519.6	1553.8	1641.9	1825.0	1978.3	1728.2
50°	1774.1	1754.4	1625.5	1573.9	1624.7	1668.6	1724.6	1845.7	2052.1	2201.7	1892.8
52.5°	1849.4	1834.7	1715.0	1681.2	1781.6	1842.3	1918.4	2064.3	2284.8	2421.4	2031.2
55°	1917.4	1906.9	1811.3	1814.8	1966.3	2045.4	2141.0	2313.4	2538.6	2617.4	2148.3
57.5°	1994.1	1980.8	1921.0	1982.5	2203.5	2306.0	2430.6	2593.2	2776.8	2791.7	2237.6
60°	2071.2	2059.6	2042.9	2176.1	2505.0	2612.7	2730.7	2864.5	3018.1	2926.8	2232.3
62.5°	2138.1	2139.5	2169.0	2379.3	2799.9	2924.7	3068.6	3201.0	3236.6	2950.4	2067.3
65°	2251.7	2272.4	2360.4	2667.1	3215.4	3382.3	3558.8	3537.6	3297.0	2730.4	1713.3
67.5°	2386.6	2423.0	2601.8	3050.6	3740.4	3962.0	4030.2	3613.7	3055.0	2219.5	1221.3
70°	2373.1	2423.0	2705.8	3336.5	4172.9	4321.6	4114.3	3270.5	2426.0	1450.0	648.8
72.5°	2107.3	2178.7	2493.7	3205.4	4036.8	4023.6	3571.9	2438.2	1441.3	582.3	253.5
75°	1606.1	1678.4	1949.3	2532.3	3190.5	3080.6	2534.5	1346.9	547.0	231.3	159.8
77.5°	923.8	980.0	1189.1	1553.0	2024.2	1911.4	1410.7	599.0	266.3	161.2	124.8
80°	515.8	547.0	674.1	787.9	991.9	909.3	631.1	372.3	198.9	116.9	96.3
82.5°	407.8	435.5	545.1	497.0	453.0	418.0	362.6	331.5	158.8	73.8	57.5
85°	356.3	382.7	461.4	391.3	309.5	283.9	294.6	326.2	123.4	44.5	49.1
87.5°	330.0	365.4	411.2	301.7	240.9	213.4	271.7	357.5	39.7	27.8	19.9
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°	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0	781.0
2.5°	771.6	767.5	760.7	754.7	745.2	740.3	734.8	730.9	727.6	725.1	729.2
5°	747.8	740.1	725.7	710.2	691.9	677.5	665.5	654.2	646.4	641.1	644.9
7.5°	725.3	712.5	690.1	662.1	630.7	604.0	582.0	562.7	549.4	540.7	544.2
10°	712.5	696.5	661.8	617.9	571.5	530.0	495.4	465.6	444.9	433.3	435.0
12.5°	709.4	688.7	640.6	580.1	516.9	459.0	410.4	369.2	340.1	324.8	325.4
15°	711.7	685.3	620.6	544.2	464.1	391.0	330.3	280.1	246.4	229.2	228.9
17.5°	715.7	682.7	599.8	505.0	410.4	325.6	258.0	208.8	178.9	165.1	164.0
20°	719.9	678.5	576.3	462.9	354.7	265.0	201.9	163.5	144.6	137.1	136.5
22.5°	725.9	674.8	551.9	418.5	300.0	215.9	166.0	140.2	130.3	126.3	125.9
25°	735.5	673.0	526.0	372.3	250.8	180.5	144.6	128.6	123.0	120.4	120.1
27.5°	751.8	675.6	501.8	327.3	210.8	156.7	132.6	123.0	118.8	116.4	116.2
30°	772.7	683.8	476.1	284.7	179.8	140.4	125.4	119.0	115.6	113.2	113.2
32.5°	807.4	697.4	449.2	247.8	157.5	129.3	119.8	115.6	112.7	110.9	110.6
35°	858.8	723.0	424.0	217.1	141.6	121.1	115.2	112.0	109.9	108.9	108.9
37.5°	933.2	763.6	401.8	195.1	131.8	115.6	110.6	108.2	107.0	107.0	107.0
40°	1033.5	819.6	383.8	180.5	126.3	111.7	107.3	105.5	104.7	104.9	104.9
42.5°	1157.2	892.2	371.7	170.3	123.7	109.4	104.9	103.3	102.5	102.2	102.5
45°	1298.2	974.9	370.5	162.8	121.1	107.7	103.3	101.8	100.3	99.2	99.2
47.5°	1435.3	1058.9	381.2	160.1	118.2	105.9	102.0	100.4	98.1	95.7	95.7
50°	1556.5	1130.2	395.6	161.2	117.1	103.3	99.9	99.2	95.5	92.9	92.5
52.5°	1652.6	1185.3	407.3	164.3	118.2	101.5	97.2	97.6	93.7	90.8	90.5
55°	1729.9	1221.3	404.1	167.4	120.6	100.4	95.0	95.5	92.3	89.4	89.4
57.5°	1763.6	1208.0	369.4	164.7	122.3	100.7	93.2	95.2	92.5	90.0	90.0
60°	1691.1	1089.5	304.3	153.3	120.1	99.9	92.3	96.3	95.9	93.3	93.2
62.5°	1472.0	877.4	236.0	136.4	112.0	95.9	90.2	95.9	98.9	98.1	97.8
65°	1134.5	625.0	180.2	117.9	101.0	89.4	84.8	90.0	94.0	95.0	94.7
67.5°	736.3	382.9	138.9	100.7	88.7	81.8	77.8	80.0	80.8	80.8	80.3
70°	362.0	206.2	110.6	84.8	76.1	73.8	71.4	70.1	68.8	67.7	67.7
72.5°	178.7	134.7	91.0	71.7	65.7	64.6	64.0	62.5	61.4	60.1	59.6
75°	132.1	109.7	77.4	60.5	56.6	55.4	56.6	55.2	54.9	53.9	53.4
77.5°	108.5	93.3	66.7	51.8	48.4	46.5	48.1	48.4	48.7	47.2	46.5
80°	88.2	79.1	55.8	42.8	39.7	38.4	39.4	41.6	42.1	39.7	38.6
82.5°	63.6	64.6	44.9	33.4	30.8	29.9	31.9	34.6	35.0	31.6	30.8
85°	53.4	53.9	34.6	23.9	21.2	19.7	23.0	25.6	27.5	24.1	23.3
87.5°	22.3	31.6	19.9	13.4	11.8	10.2	12.2	13.7	16.4	15.2	14.9
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)