

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: P191249

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191249
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 6057.9 lumens
Efficiency: N/A
Efficacy: 102.7 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

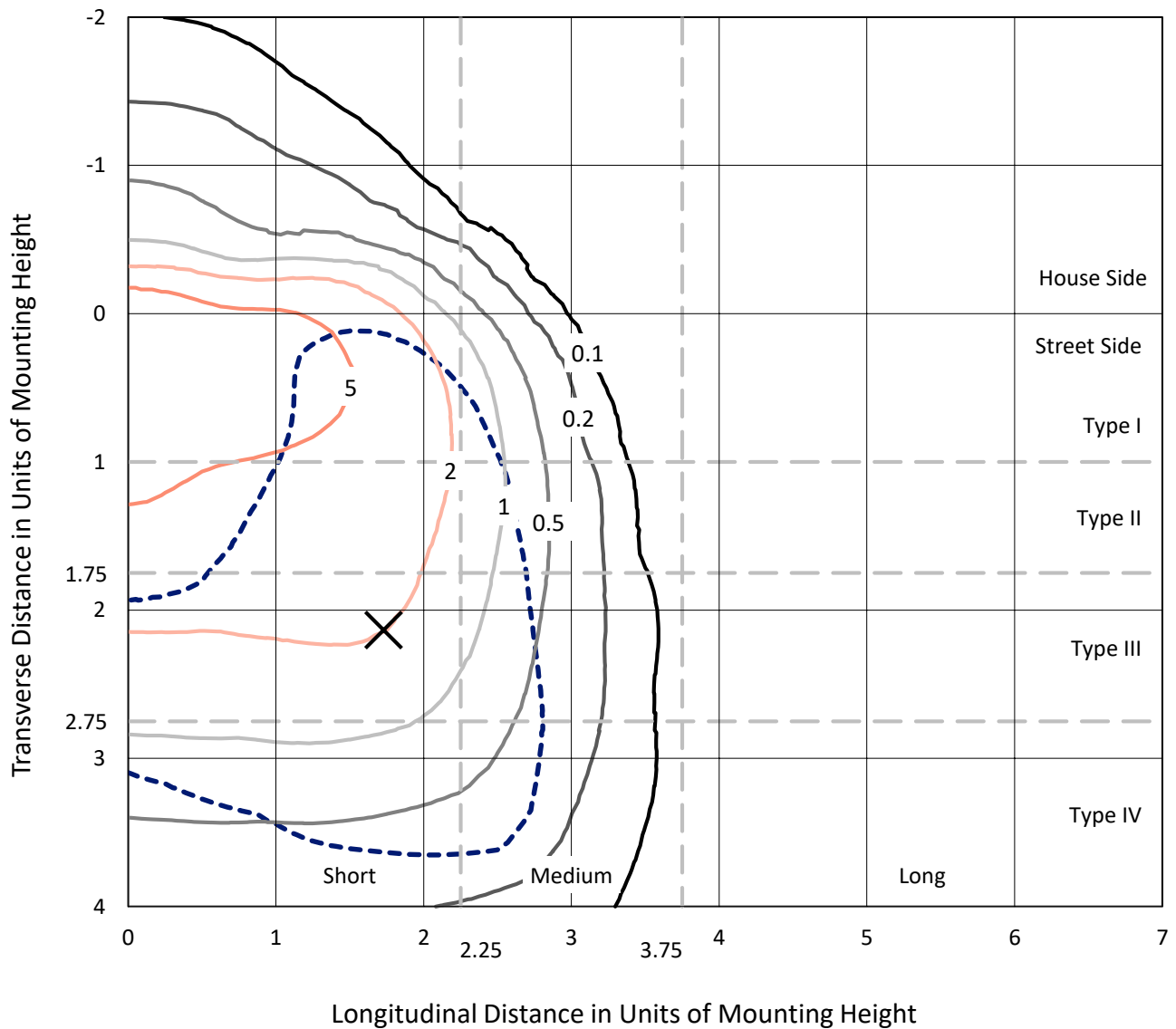
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

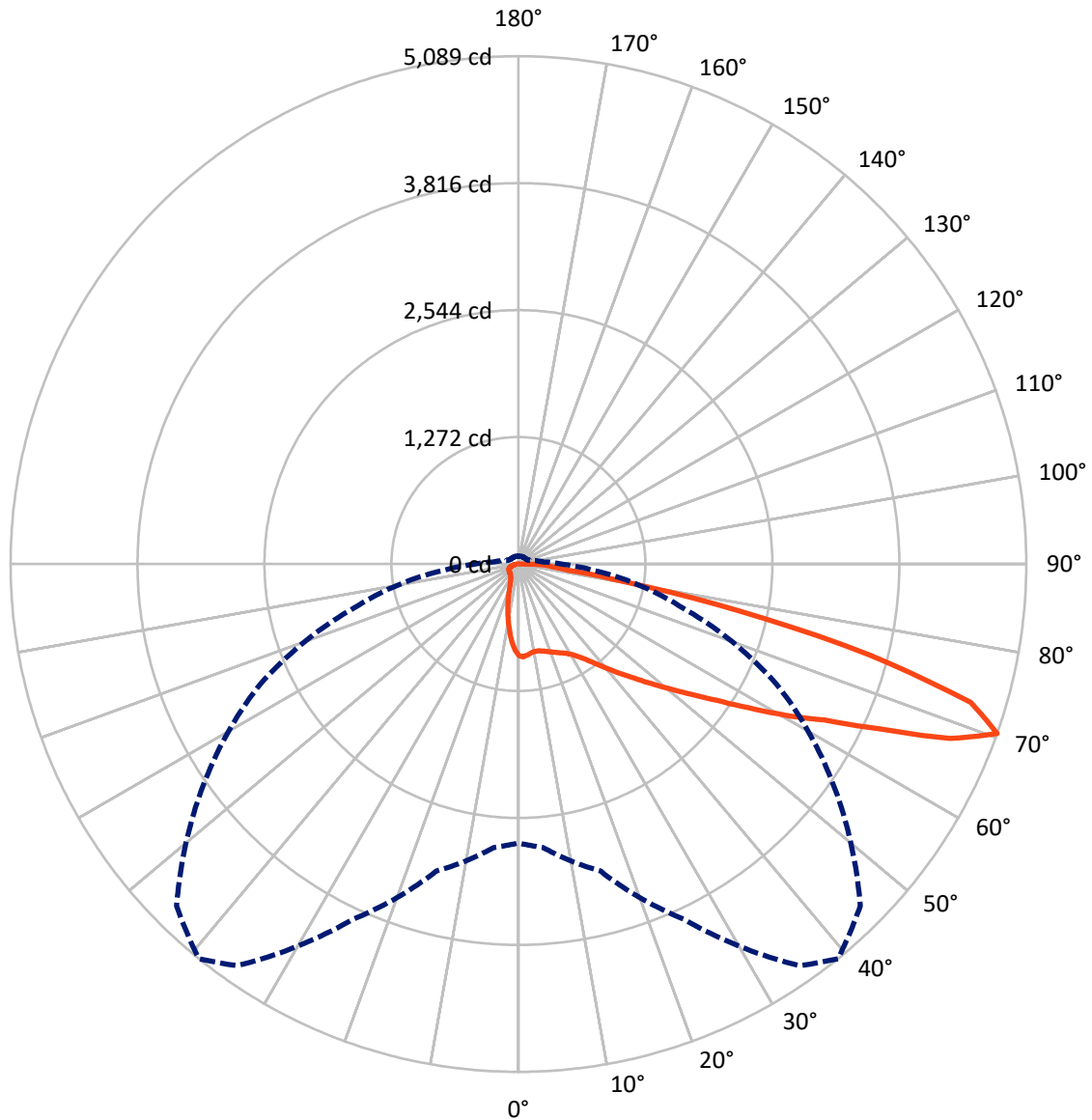
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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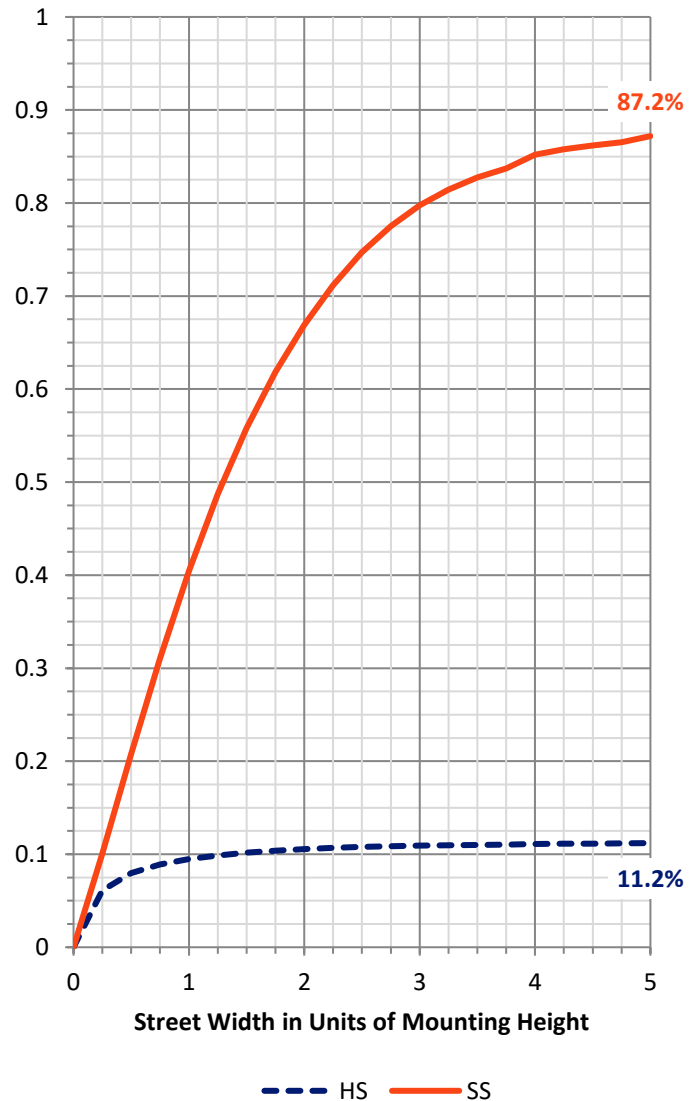
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.0	0.0	689.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5368.9	0.0	5368.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	6057.9	0.0	6057.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.3
10°-20°	197.3	3.3
20°-30°	307.2	5.1
30°-40°	478.5	7.9
40°-50°	803.4	13.3
50°-60°	1276.2	21.1
60°-70°	1702.3	28.1
70°-80°	1028.0	17.0
80°-90°	186.1	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°	6057.9	100.0
0°-180°	6057.9	100.0



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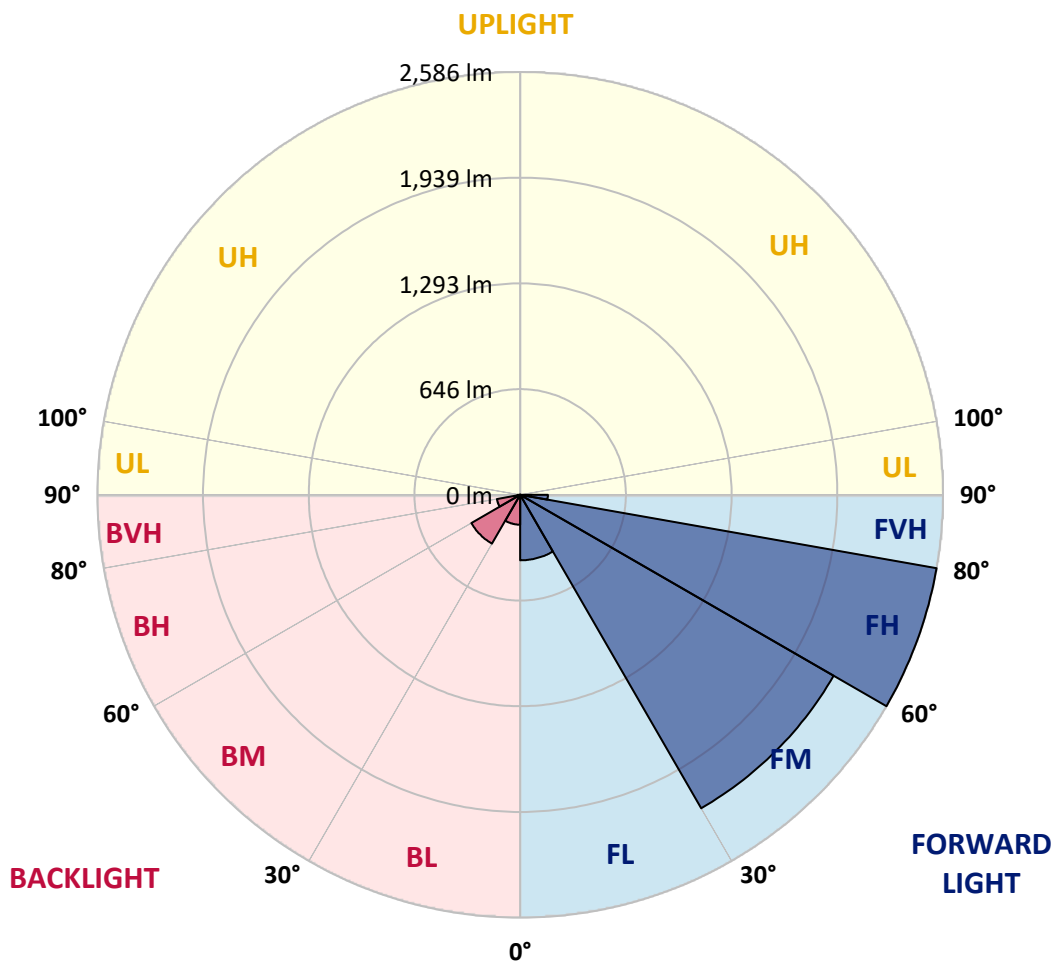
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.6	6.6			
FM	(30°-60°)	2213.3	36.5			
FH	(60°-80°)	2585.7	42.7			G2/5000
FVH	(80°-90°)	169.3	2.8			G2/225
BL	(0°-30°)	182.8	3.0	B1/500		
BM	(30°-60°)	344.8	5.7	B1/1000		
BH	(60°-80°)	144.7	2.4	B1/500		G1/500
BVH	(80°-90°)	16.8	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°	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7
2.5°	937.5	937.2	934.8	932.9	931.4	930.8	932.0	927.4	923.4	918.4	913.2
5°	930.5	930.2	926.2	922.5	918.7	917.5	917.2	908.9	904.0	896.6	886.7
7.5°	922.8	921.3	916.0	909.8	903.4	900.3	897.2	886.4	880.9	873.5	862.0
10°	914.7	912.9	908.0	901.8	895.7	891.1	885.8	875.3	869.5	864.0	850.7
12.5°	906.4	904.9	903.7	900.9	896.6	892.6	888.5	879.6	873.5	867.1	851.6
15°	905.2	904.6	907.4	909.2	906.7	904.3	900.0	892.3	885.8	879.3	859.3
17.5°	915.0	914.7	921.9	926.8	925.6	921.3	915.3	906.7	901.5	896.0	871.0
20°	936.6	938.1	946.7	953.3	947.0	940.9	931.4	919.4	916.6	914.1	883.0
22.5°	977.3	978.9	985.0	987.5	971.4	962.5	949.3	933.9	932.0	933.9	897.5
25°	1040.8	1039.2	1038.3	1029.0	999.7	985.9	968.9	953.0	953.9	962.2	917.8
27.5°	1124.8	1116.4	1103.6	1075.8	1029.3	1013.9	993.3	978.6	984.4	1000.3	948.4
30°	1212.0	1202.8	1172.8	1127.6	1068.2	1051.2	1028.1	1011.5	1026.8	1052.1	989.0
32.5°	1292.7	1291.5	1247.7	1189.5	1121.8	1106.9	1083.8	1065.1	1090.1	1128.5	1050.0
35°	1380.8	1383.5	1331.2	1261.3	1194.1	1178.7	1162.1	1148.0	1181.2	1234.2	1138.3
37.5°	1475.0	1480.5	1418.6	1339.8	1276.6	1270.2	1260.4	1254.1	1305.6	1378.9	1261.9
40°	1601.0	1595.4	1509.5	1428.6	1378.0	1377.7	1374.6	1382.0	1467.6	1568.0	1420.5
42.5°	1735.8	1719.6	1605.9	1523.7	1489.2	1499.6	1505.8	1536.0	1662.6	1797.8	1613.9
45°	1881.3	1844.6	1706.0	1624.3	1612.7	1634.9	1655.9	1721.4	1892.0	2059.3	1825.9
47.5°	1997.4	1961.9	1809.5	1730.0	1755.6	1789.1	1829.5	1933.3	2148.9	2329.4	2035.0
50°	2088.9	2065.7	1913.9	1853.3	1913.0	1964.7	2030.7	2173.3	2416.2	2592.5	2228.7
52.5°	2177.6	2160.3	2019.2	1979.5	2097.8	2169.3	2258.9	2430.7	2690.4	2851.2	2391.7
55°	2257.7	2245.3	2132.5	2136.9	2315.2	2408.2	2521.0	2723.9	2989.2	3081.8	2529.6
57.5°	2347.9	2332.1	2261.9	2334.4	2594.6	2715.3	2861.9	3053.5	3269.5	3286.9	2634.6
60°	2438.7	2425.2	2405.5	2562.3	2949.4	3076.3	3215.2	3372.9	3553.7	3446.2	2628.5
62.5°	2517.6	2519.1	2553.9	2801.6	3296.9	3443.8	3613.2	3769.0	3810.9	3473.9	2434.1
65°	2651.3	2675.6	2779.4	3140.4	3785.9	3982.4	4190.3	4165.4	3882.0	3214.9	2017.4
67.5°	2810.1	2853.0	3063.3	3591.9	4404.1	4665.0	4745.4	4255.0	3597.1	2613.3	1438.1
70°	2794.2	2853.0	3186.0	3928.5	4913.5	5088.5	4844.5	3850.9	2856.4	1707.2	763.8
72.5°	2481.3	2565.4	2936.2	3774.2	4753.0	4737.6	4205.8	2870.8	1697.1	685.6	298.5
75°	1891.1	1976.1	2295.2	2981.7	3756.7	3627.3	2984.3	1585.9	644.0	272.3	188.2
77.5°	1087.8	1153.8	1400.2	1828.6	2383.3	2250.6	1661.1	705.3	313.5	189.8	146.9
80°	607.3	644.0	793.7	927.7	1167.9	1070.6	743.2	438.2	234.1	137.7	113.3
82.5°	480.2	512.8	641.9	585.2	533.5	492.1	426.9	390.3	187.0	86.8	67.7
85°	419.5	450.6	543.3	460.7	364.4	334.2	346.8	384.1	145.4	52.4	57.9
87.5°	388.7	430.3	484.2	355.2	283.7	251.3	320.0	421.0	46.9	32.6	23.4
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°	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7	919.7
2.5°	908.6	903.7	895.7	888.5	877.5	871.7	865.2	860.5	856.8	853.8	858.7
5°	880.6	871.3	854.4	836.3	814.7	797.7	783.6	770.3	761.1	754.9	759.2
7.5°	854.1	839.0	812.5	779.6	742.6	711.2	685.3	662.5	646.8	636.7	640.7
10°	839.0	820.2	779.3	727.5	673.0	624.0	583.4	548.2	524.0	510.0	512.2
12.5°	835.3	811.0	754.3	683.1	608.7	540.5	483.2	434.5	400.4	382.6	383.2
15°	838.1	807.0	730.9	640.7	546.4	460.4	389.0	329.9	290.1	269.9	269.5
17.5°	842.7	803.8	706.2	594.7	483.2	383.5	303.7	245.8	210.6	194.4	193.1
20°	847.6	798.9	678.5	545.1	417.7	312.0	237.7	192.5	170.3	161.4	160.8
22.5°	854.7	794.6	649.9	492.8	353.2	254.1	195.6	165.1	153.3	148.7	148.1
25°	866.1	792.5	619.4	438.2	295.3	212.6	170.3	151.5	144.7	141.7	141.4
27.5°	885.2	795.5	590.8	385.3	248.3	184.5	156.2	144.7	139.8	137.1	136.8
30°	909.8	805.1	560.6	335.1	211.5	165.4	147.5	140.1	136.2	133.4	133.4
32.5°	950.8	821.1	528.9	291.6	185.5	152.1	141.1	136.2	132.8	130.6	130.3
35°	1011.2	851.3	499.3	255.6	166.6	142.6	135.5	131.9	129.4	128.2	128.2
37.5°	1099.0	899.1	473.1	229.8	155.2	136.2	130.3	127.6	125.9	125.9	125.9
40°	1216.9	964.9	451.8	212.6	148.7	131.6	126.2	124.1	123.2	123.5	123.5
42.5°	1362.6	1050.6	437.6	200.5	145.7	128.8	123.5	121.6	120.7	120.4	120.7
45°	1528.6	1148.0	436.1	191.6	142.6	126.8	121.6	119.8	117.9	116.7	116.7
47.5°	1690.0	1246.8	448.8	188.5	139.2	124.7	120.1	118.3	115.5	112.7	112.7
50°	1832.6	1330.9	465.6	189.8	138.0	121.6	117.6	116.7	112.4	109.4	109.0
52.5°	1946.0	1395.5	479.6	193.4	139.2	119.5	114.6	114.9	110.3	106.9	106.6
55°	2036.8	1438.1	475.9	197.1	142.0	118.3	111.8	112.4	108.7	105.4	105.4
57.5°	2076.5	1422.3	434.9	194.1	144.1	118.6	109.7	112.1	109.0	106.0	106.0
60°	1991.2	1282.8	358.2	180.4	141.4	117.6	108.7	113.3	113.0	110.0	109.7
62.5°	1733.1	1033.1	277.8	160.5	131.9	113.0	106.3	113.0	116.4	115.5	115.2
65°	1335.8	735.8	212.3	138.9	118.9	105.4	99.8	106.0	110.6	111.8	111.5
67.5°	867.1	450.9	163.6	118.6	104.4	96.4	91.5	94.2	95.1	95.1	94.5
70°	426.3	242.7	130.3	99.8	89.6	86.8	84.1	82.6	81.0	79.8	79.8
72.5°	210.3	158.7	107.2	84.4	77.3	76.1	75.5	73.7	72.4	70.9	70.2
75°	155.5	129.1	91.1	71.2	66.5	65.3	66.5	65.0	64.7	63.4	62.8
77.5°	127.9	110.0	78.6	61.0	57.0	54.8	56.7	57.0	57.3	55.4	54.8
80°	103.8	93.0	65.6	50.5	46.9	45.3	46.5	49.0	49.6	46.9	45.6
82.5°	74.9	76.1	53.0	39.4	36.3	35.1	37.5	40.6	41.2	37.2	36.3
85°	62.8	63.4	40.6	28.0	25.0	23.1	27.1	30.2	32.3	28.3	27.4
87.5°	26.2	37.2	23.4	15.8	13.8	12.0	14.5	16.1	19.4	17.9	17.6
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)