

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: P191209

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5175.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

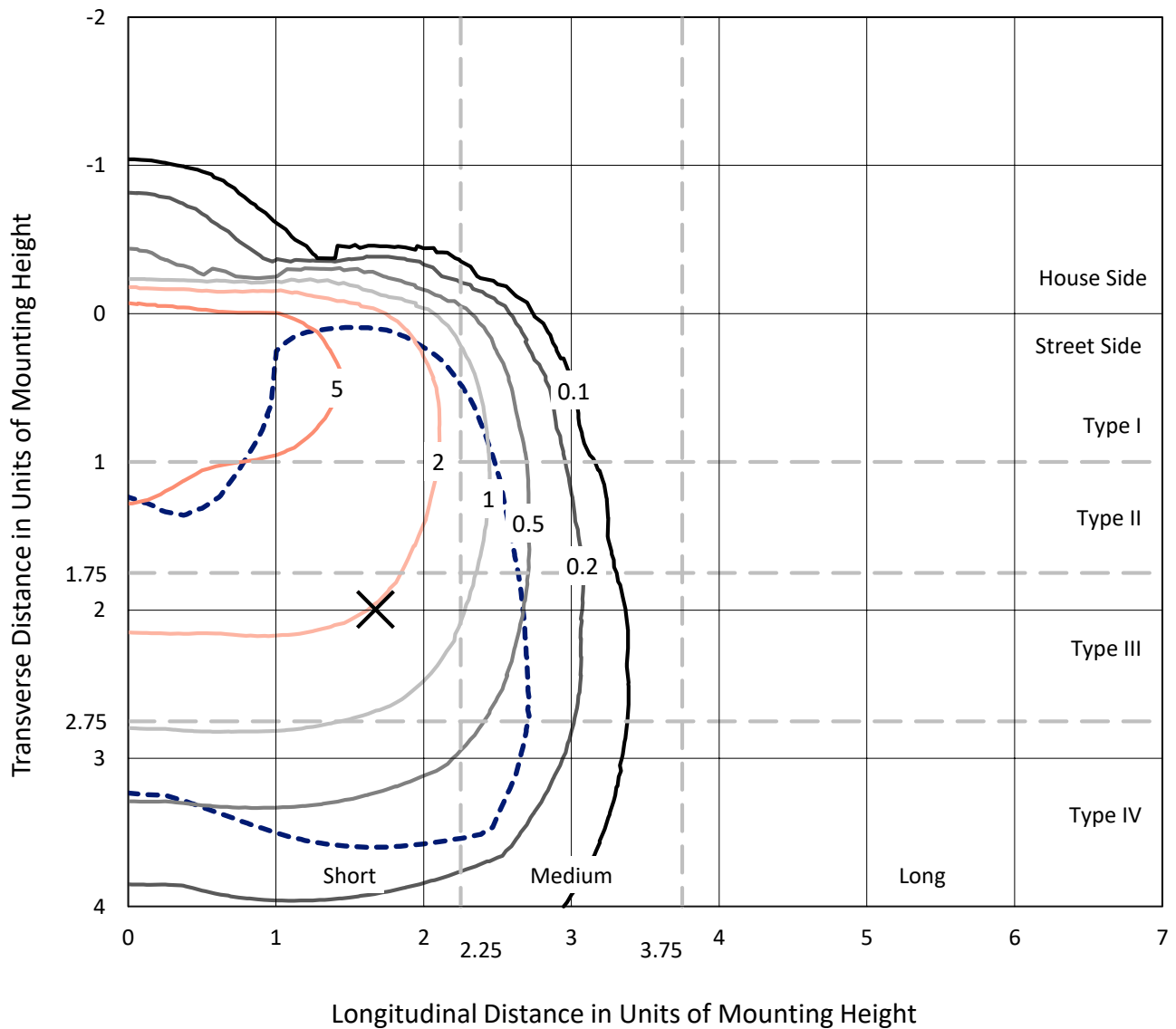


REPORT NUMBER: P191209

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

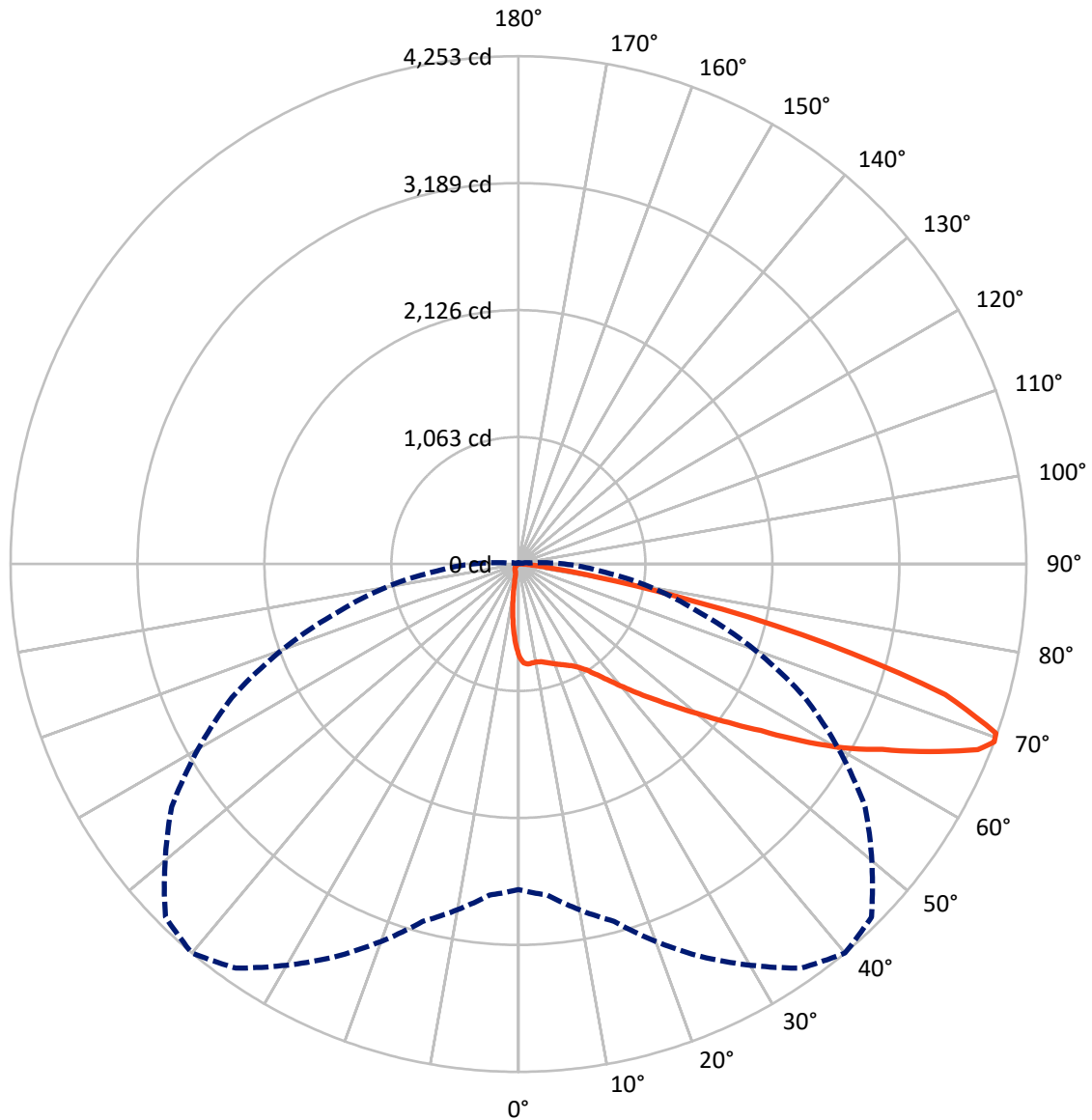


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191209

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191209

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

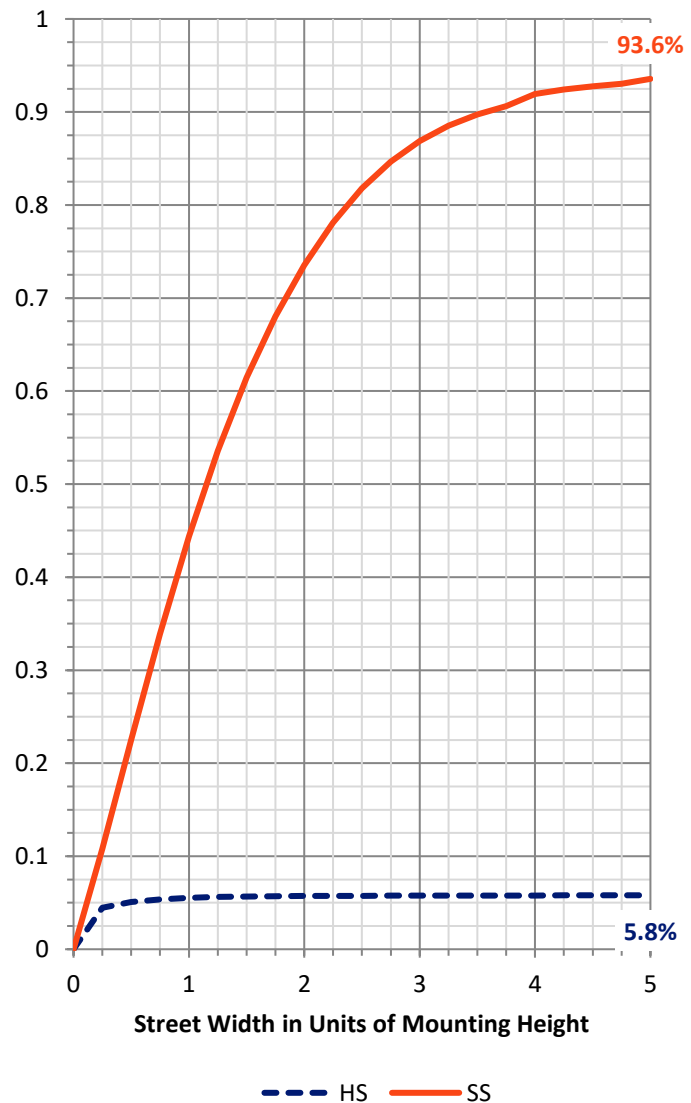
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.8	0.0	302.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4872.3	0.0	4872.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	5175.1	0.0	5175.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.2
10°-20°	154.2	3.0
20°-30°	259.7	5.0
30°-40°	425.1	8.2
40°-50°	736.0	14.2
50°-60°	1159.3	22.4
60°-70°	1514.0	29.3
70°-80°	779.8	15.1
80°-90°	84.3	1.6
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°	5175.1	100.0
0°-180°	5175.1	100.0



REPORT NUMBER: P191209

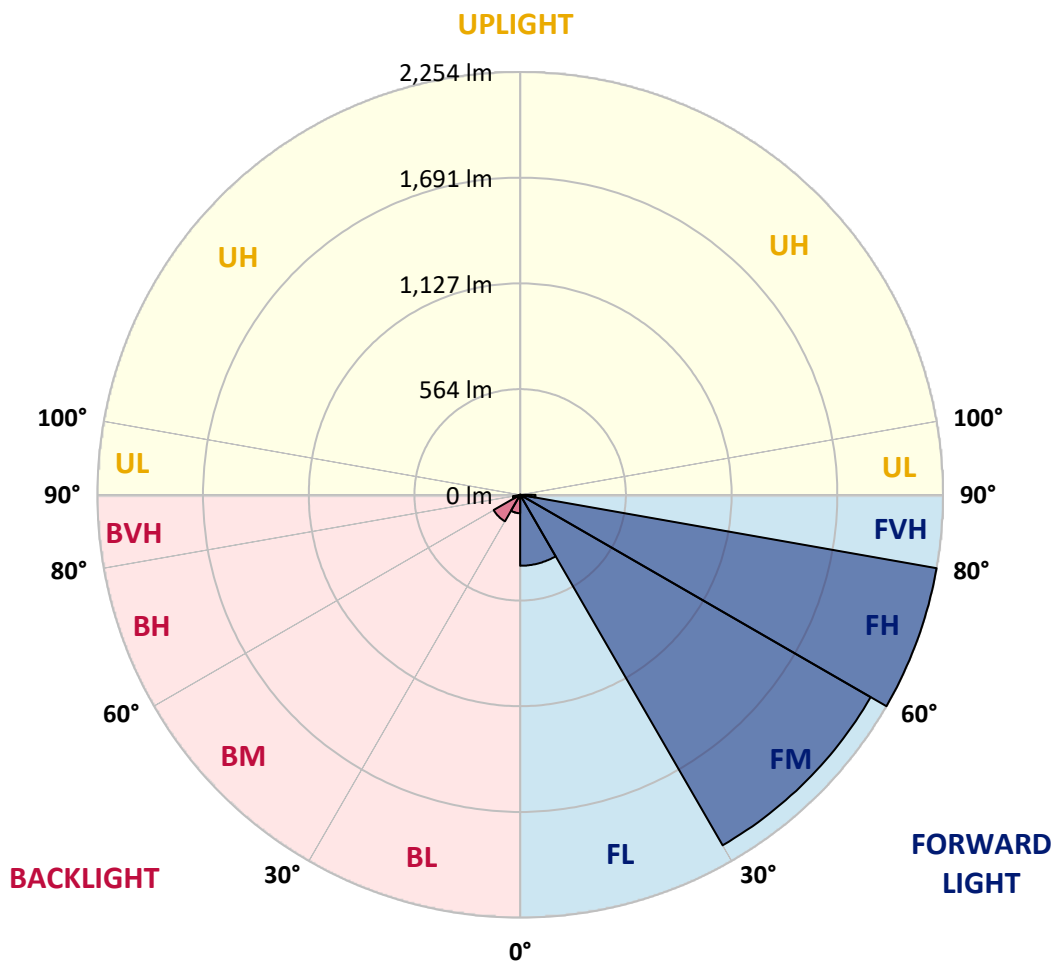
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.4	7.3			
FM	(30°-60°)	2157.7	41.7			
FH	(60°-80°)	2254.5	43.6			G2/5000
FVH	(80°-90°)	81.7	1.6			G1/100
BL	(0°-30°)	98.1	1.9	B0/110		
BM	(30°-60°)	162.7	3.1	B0/220		
BH	(60°-80°)	39.3	0.8	B0/110		G0/110
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: B0-U0-G2

Type IV Short





REPORT NUMBER: P191209

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	848.9	844.3	841.6	837.9	833.3	829.2	827.7	816.3	805.6	790.7	773.8
5°	864.7	863.2	858.3	853.2	847.7	841.6	838.2	824.6	809.3	787.7	758.1
7.5°	866.2	864.4	858.3	851.4	843.7	836.4	830.5	816.9	802.7	780.9	744.8
10°	863.8	861.6	856.9	849.6	840.0	833.0	827.1	814.2	802.1	782.5	742.4
12.5°	861.0	858.9	856.6	852.9	844.7	839.7	834.8	822.5	811.7	795.0	751.4
15°	863.8	862.6	865.0	863.5	858.9	854.5	849.6	838.5	828.6	814.8	767.6
17.5°	875.4	875.4	883.1	884.0	879.7	873.6	866.5	855.4	847.1	835.4	787.1
20°	902.9	901.9	911.8	913.7	903.2	893.6	883.1	869.6	863.2	855.7	806.2
22.5°	950.0	945.7	951.5	949.7	929.0	914.3	901.3	884.8	881.3	877.9	827.4
25°	1011.3	1008.8	1012.8	994.7	958.3	938.3	922.9	904.1	904.1	907.5	851.4
27.5°	1100.3	1091.1	1077.6	1045.5	990.9	965.4	948.8	928.7	934.0	946.6	883.1
30°	1191.5	1181.3	1150.2	1100.9	1030.7	1003.9	984.5	963.5	975.9	999.0	925.7
32.5°	1281.5	1270.1	1226.0	1163.8	1087.7	1060.9	1042.1	1019.0	1039.6	1078.5	987.9
35°	1368.6	1358.5	1307.6	1234.3	1163.5	1141.3	1124.0	1104.1	1130.6	1184.8	1075.7
37.5°	1466.6	1455.5	1393.6	1314.1	1255.6	1239.6	1226.9	1206.9	1253.1	1332.6	1198.0
40°	1587.0	1568.3	1484.8	1405.6	1362.2	1354.5	1345.8	1343.0	1414.8	1524.8	1360.9
42.5°	1725.0	1694.2	1580.3	1502.0	1479.2	1484.8	1482.6	1494.9	1617.2	1763.9	1559.3
45°	1863.0	1823.3	1686.5	1604.9	1608.0	1627.4	1639.4	1688.7	1870.8	2038.0	1772.8
47.5°	1980.1	1940.9	1788.5	1716.1	1753.0	1791.3	1823.9	1917.2	2131.3	2307.9	1938.8
50°	2080.2	2043.2	1896.7	1838.4	1921.6	1983.2	2036.2	2174.5	2411.7	2513.3	2055.3
52.5°	2162.1	2137.6	2008.8	1978.6	2114.1	2204.4	2282.0	2447.7	2660.0	2680.2	2145.8
55°	2241.9	2224.4	2129.2	2145.2	2340.2	2463.1	2561.4	2737.6	2873.8	2819.6	2232.7
57.5°	2333.8	2317.7	2266.6	2356.6	2637.5	2792.1	2899.3	2994.5	3061.9	2961.9	2314.6
60°	2427.4	2418.2	2419.4	2591.2	2978.7	3127.3	3186.4	3211.0	3246.7	3095.9	2319.2
62.5°	2516.7	2534.3	2594.0	2852.5	3305.6	3419.6	3449.5	3473.8	3431.9	3117.1	2142.8
65°	2668.0	2696.6	2839.2	3202.1	3665.1	3787.1	3817.9	3734.4	3461.2	2842.3	1742.9
67.5°	2741.9	2794.3	3048.7	3528.1	4013.8	4149.3	4137.9	3751.4	3106.0	2167.4	1118.5
69°	2726.5	2782.2	3097.1	3627.8	4129.7	4252.5	4180.2	3544.0	2646.1	1570.1	686.6
70°	2665.5	2721.9	3072.1	3624.1	4144.4	4241.8	4101.9	3288.1	2237.3	1148.1	429.4
72.5°	2225.9	2274.6	2727.4	3275.7	3817.9	3738.7	3431.6	2278.0	1090.2	312.6	96.8
75°	1370.1	1397.2	1957.0	2467.8	2883.6	2680.2	2286.3	1133.3	325.0	88.4	53.6
77.5°	723.9	736.2	1071.3	1454.5	1827.9	1512.5	1171.8	442.0	149.8	55.4	38.8
80°	427.9	437.1	576.9	665.0	791.0	660.7	468.5	271.4	107.2	34.8	34.5
82.5°	244.9	250.7	418.3	369.7	311.7	266.2	233.2	257.2	64.3	23.4	35.7
85°	89.9	91.1	235.4	281.2	185.5	110.3	115.8	213.2	17.3	14.8	28.0
87.5°	41.9	41.0	121.0	172.2	108.4	70.0	90.2	46.9	6.8	9.5	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191209

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	763.9	752.6	731.9	710.6	689.1	672.5	656.1	643.2	638.8	630.9	631.5
5°	740.5	719.5	676.5	632.7	587.2	549.5	514.1	485.5	471.6	457.5	457.5
7.5°	720.2	689.7	622.3	551.1	477.5	415.5	359.8	317.9	294.8	276.3	276.0
10°	712.5	671.3	576.9	475.0	372.5	288.1	221.8	179.3	157.4	143.2	142.6
12.5°	715.9	664.7	542.2	404.8	276.0	185.2	128.5	101.1	91.8	87.5	87.5
15°	725.8	662.9	507.4	336.0	195.0	115.8	85.3	77.9	77.3	77.3	77.3
17.5°	737.8	663.5	471.6	269.2	132.8	82.9	73.7	72.7	73.3	73.3	73.3
20°	750.1	663.8	433.1	207.4	93.6	72.1	69.4	69.0	69.7	69.7	70.0
22.5°	765.2	665.3	394.6	155.0	77.3	68.1	65.9	65.9	66.2	66.2	65.9
25°	782.5	668.5	354.6	114.9	70.6	65.3	63.4	63.1	63.4	63.1	62.8
27.5°	804.0	672.8	309.9	89.9	67.4	62.5	61.0	61.0	60.7	60.4	60.0
30°	831.1	677.7	259.7	76.4	64.3	60.0	58.5	58.2	57.9	57.3	57.3
32.5°	872.4	688.4	210.1	69.4	61.0	56.7	55.4	55.4	54.8	54.2	53.9
35°	935.8	709.7	165.7	65.0	57.3	53.0	51.5	51.5	50.8	50.5	50.2
37.5°	1023.7	742.0	128.8	61.0	53.6	49.0	47.5	47.2	46.5	45.9	45.6
40°	1140.4	782.1	101.4	57.3	49.9	45.0	43.8	43.2	41.9	41.0	41.0
42.5°	1287.0	827.7	82.2	53.3	45.6	41.3	40.3	39.4	37.2	36.3	36.0
45°	1440.4	868.7	69.7	48.7	41.3	37.5	36.9	35.4	32.6	31.7	31.7
47.5°	1551.0	878.2	61.3	44.4	37.2	33.6	33.2	30.5	28.0	27.4	27.1
50°	1620.0	859.5	54.5	40.0	33.6	29.9	28.9	25.6	24.0	23.4	23.1
52.5°	1666.5	825.8	49.0	36.3	30.2	26.5	24.3	21.9	20.7	20.0	20.0
55°	1703.8	778.5	43.5	32.9	27.4	23.7	20.7	18.8	17.6	17.0	17.0
57.5°	1714.3	714.0	37.8	30.2	24.7	21.0	17.6	16.4	14.8	14.5	14.5
60°	1638.2	597.9	33.6	26.8	22.2	18.2	15.4	13.9	12.3	12.0	11.7
62.5°	1437.7	462.7	29.6	23.7	19.4	15.8	13.2	11.4	10.1	10.1	10.1
65°	1096.6	310.2	25.9	20.7	17.0	13.2	11.4	9.2	8.6	8.6	8.9
67.5°	656.4	168.8	22.2	17.6	14.5	11.0	9.5	8.0	7.7	8.0	8.0
69°	384.7	99.2	20.0	15.8	12.6	9.8	8.3	7.1	7.7	8.0	8.0
70°	237.5	66.8	18.5	14.2	11.4	8.9	7.7	6.8	7.4	7.7	7.7
72.5°	66.2	34.5	14.8	11.0	9.2	7.4	6.1	6.1	7.1	7.4	7.4
75°	43.2	25.6	11.4	8.3	7.1	5.8	5.2	5.8	6.8	7.1	7.1
77.5°	35.7	21.0	9.2	6.8	5.8	5.5	4.9	5.2	6.1	6.4	6.4
80°	32.6	14.8	7.4	6.1	5.2	4.9	4.6	4.3	5.5	5.8	5.8
82.5°	31.1	11.7	6.4	5.5	4.9	4.3	4.0	4.3	4.9	5.2	5.5
85°	19.4	7.7	5.8	5.2	4.3	4.0	4.0	4.0	4.6	4.9	4.9
87.5°	7.1	6.1	5.2	4.3	3.7	3.7	3.7	3.7	4.0	4.6	4.6
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)