

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: P193739

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193739
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-SL4-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3335 lumens
Efficiency: N/A
Efficacy: 75.8 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 - G1

Input Watts (W): 44
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

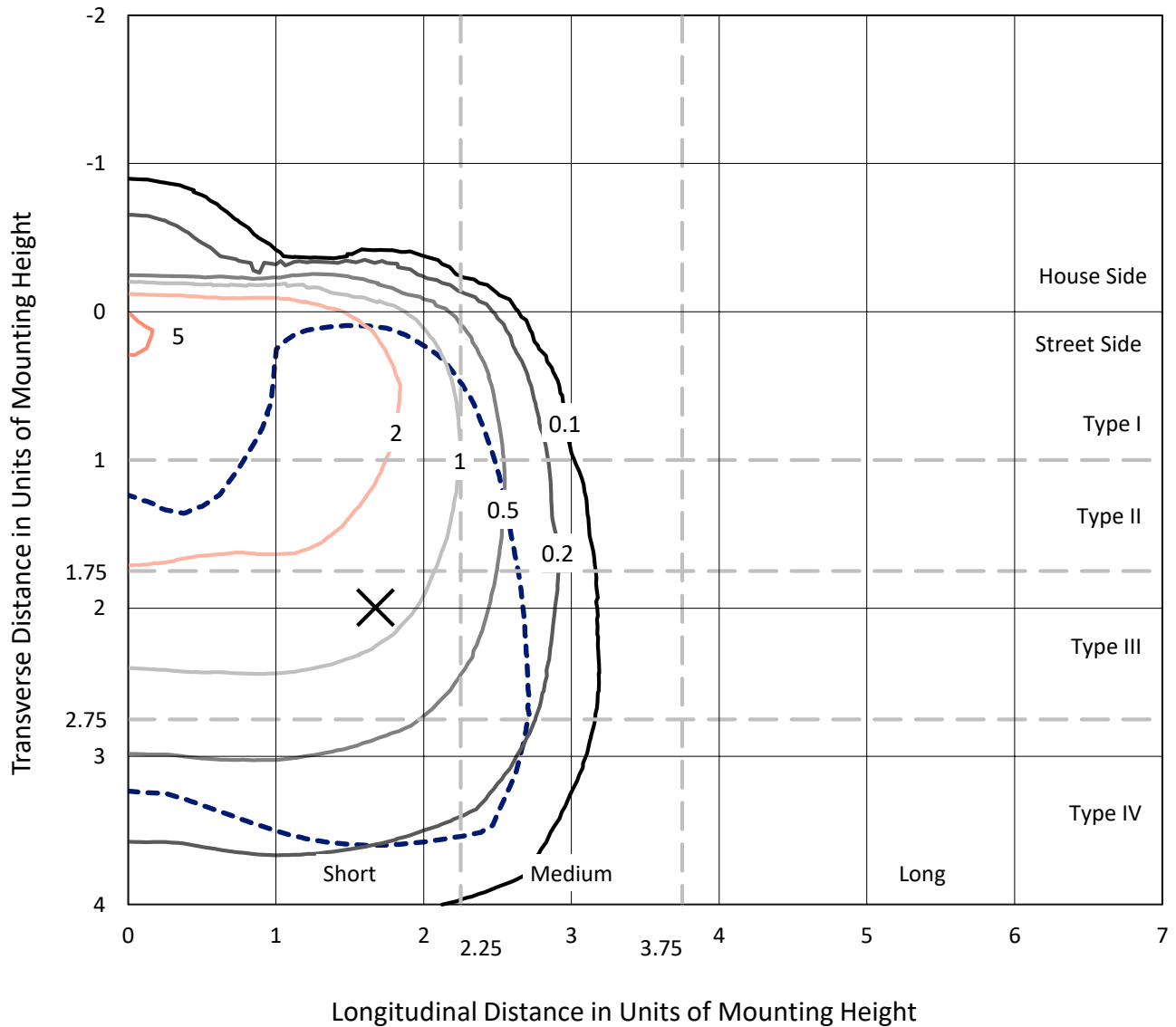


REPORT NUMBER: P193739

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

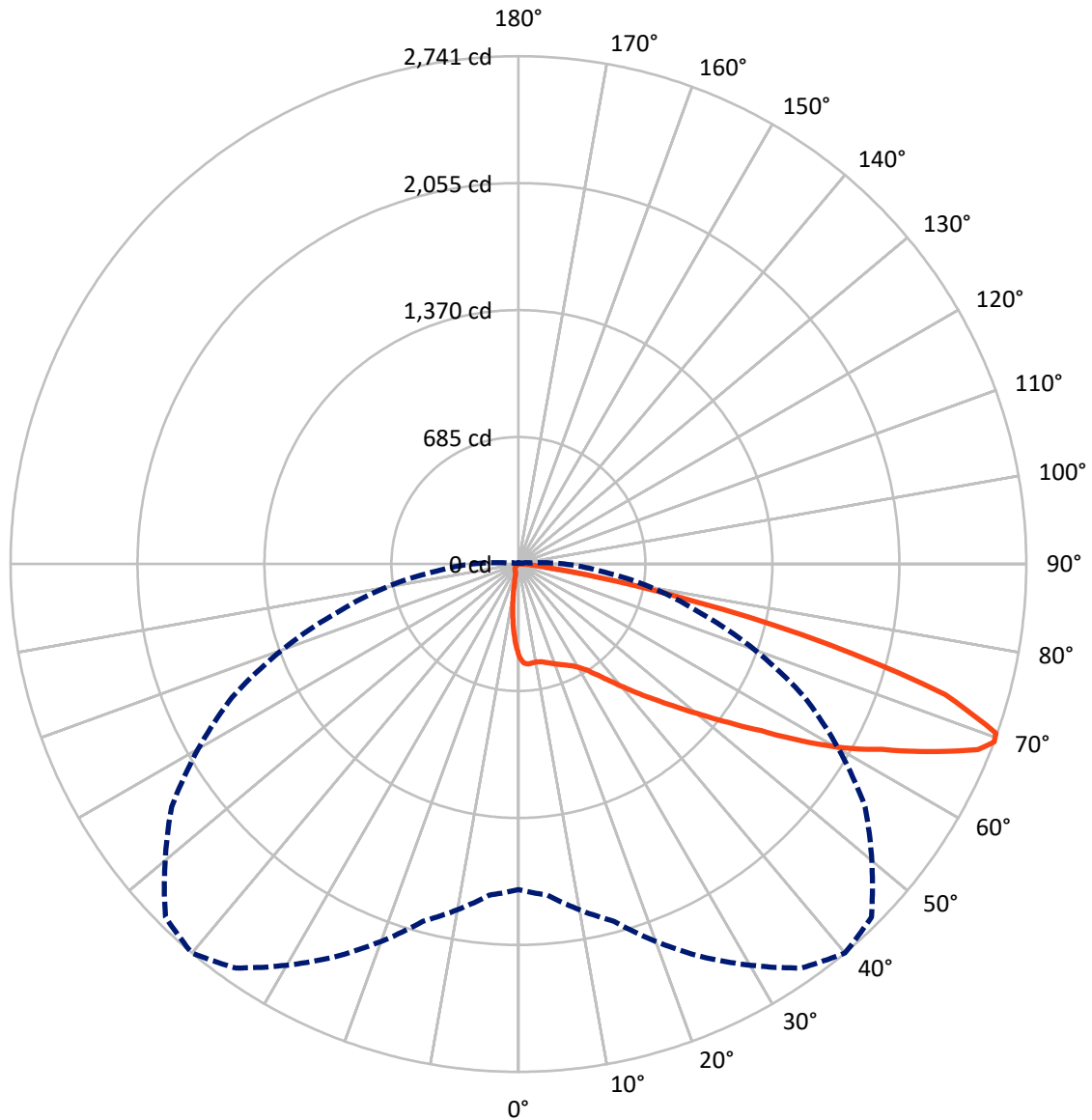


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193739

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193739

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800-HSS

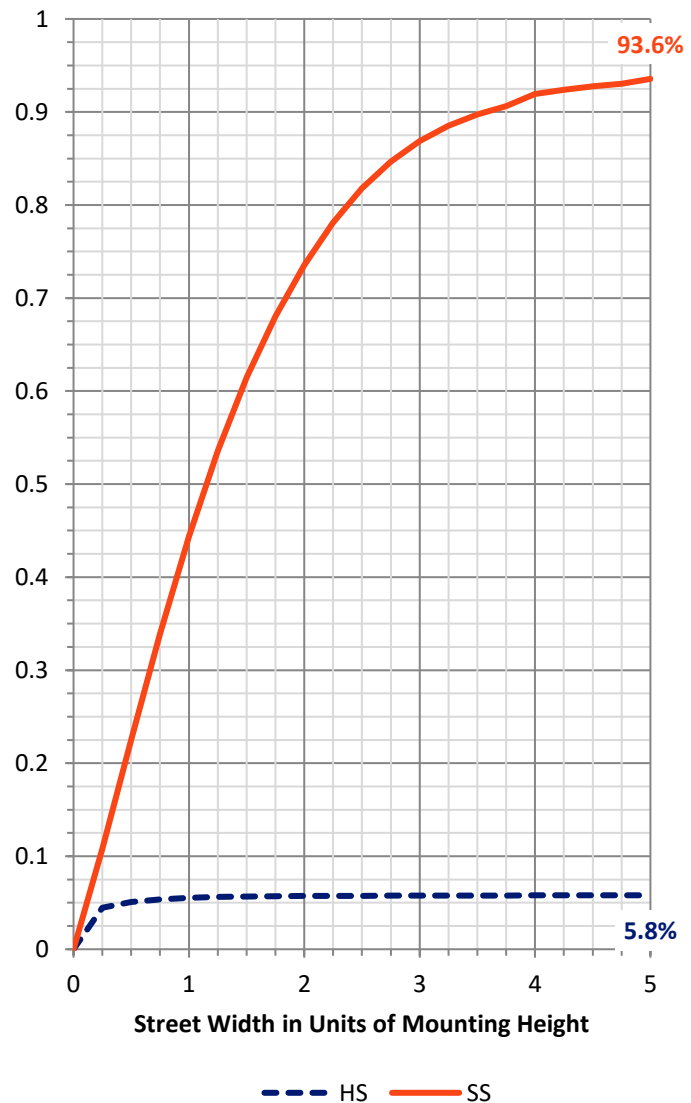
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.1	0.0	195.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3139.9	0.0	3139.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	3335.0	0.0	3335.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.2
10°-20°	99.3	3.0
20°-30°	167.3	5.0
30°-40°	273.9	8.2
40°-50°	474.3	14.2
50°-60°	747.1	22.4
60°-70°	975.7	29.3
70°-80°	502.5	15.1
80°-90°	54.4	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°	3335.0	100.0
0°-180°	3335.0	100.0



REPORT NUMBER: P193739

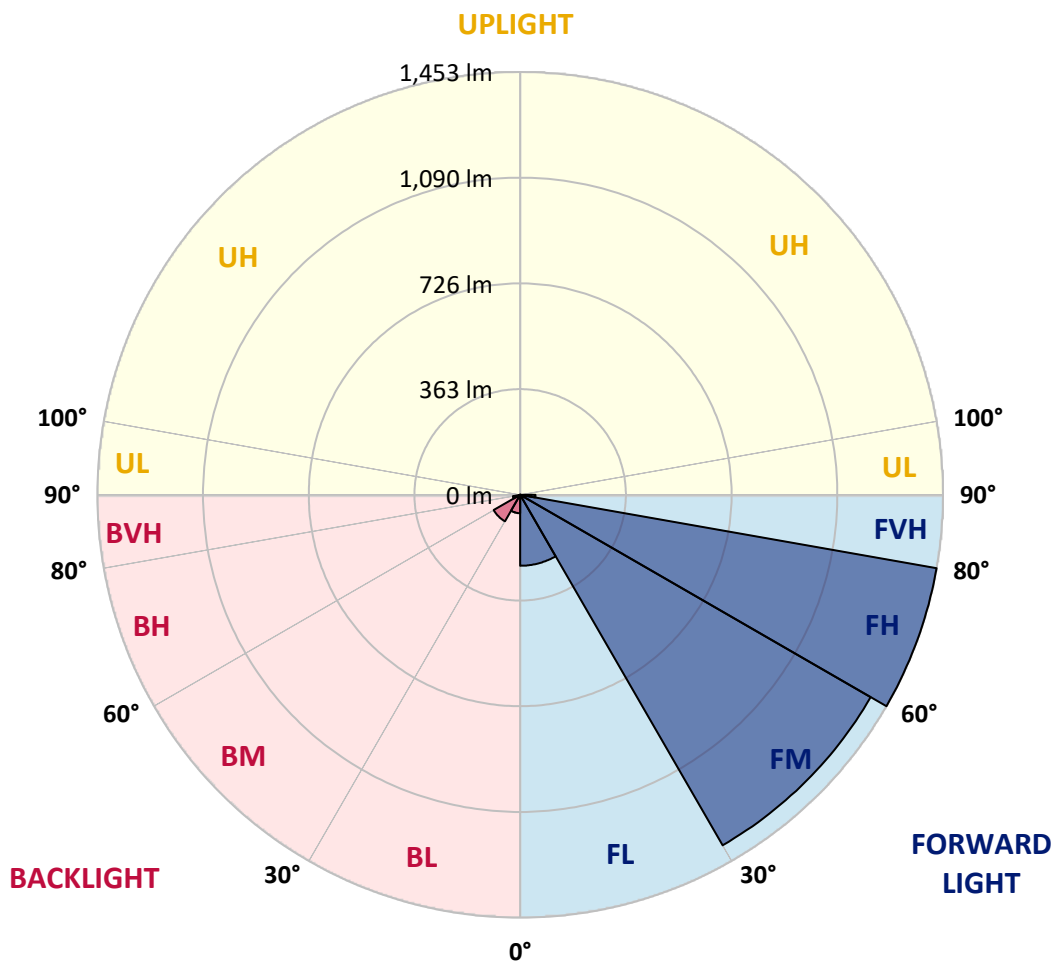
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.9	7.3			
FM	(30°-60°)	1390.5	41.7			
FH	(60°-80°)	1452.9	43.6			G1/1800
FVH	(80°-90°)	52.7	1.6			G1/100
BL	(0°-30°)	63.2	1.9	B0/110		
BM	(30°-60°)	104.9	3.1	B0/220		
BH	(60°-80°)	25.3	0.8	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type IV Short





REPORT NUMBER: P193739

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	547.1	544.1	542.3	540.0	537.0	534.4	533.4	526.1	519.1	509.6	498.7
5°	557.2	556.2	553.1	549.9	546.3	542.3	540.2	531.4	521.5	507.6	488.5
7.5°	558.2	557.0	553.1	548.7	543.7	539.0	535.2	526.5	517.3	503.2	480.0
10°	556.6	555.2	552.3	547.5	541.3	536.8	533.0	524.7	516.9	504.2	478.4
12.5°	554.8	553.5	552.1	549.7	544.3	541.1	538.0	530.0	523.1	512.4	484.2
15°	556.6	555.8	557.4	556.4	553.5	550.7	547.5	540.4	534.0	525.1	494.7
17.5°	564.2	564.2	569.1	569.7	567.0	563.0	558.4	551.3	545.9	538.4	507.2
20°	581.8	581.2	587.6	588.8	582.0	575.9	569.1	560.4	556.2	551.5	519.5
22.5°	612.2	609.4	613.2	612.0	598.7	589.2	580.8	570.1	567.9	565.8	533.2
25°	651.7	650.1	652.7	641.0	617.6	604.7	594.7	582.6	582.6	584.8	548.7
27.5°	709.1	703.1	694.4	673.8	638.6	622.1	611.4	598.5	601.9	610.0	569.1
30°	767.8	761.3	741.2	709.5	664.2	647.0	634.4	620.9	628.9	643.8	596.5
32.5°	825.8	818.5	790.1	750.0	700.9	683.7	671.6	656.7	670.0	695.0	636.6
35°	882.0	875.4	842.7	795.4	749.8	735.5	724.4	711.5	728.5	763.5	693.2
37.5°	945.1	938.0	898.1	846.9	809.1	798.8	790.7	777.8	807.5	858.8	772.0
40°	1022.7	1010.6	956.8	905.8	877.8	872.9	867.3	865.5	911.8	982.6	877.0
42.5°	1111.7	1091.8	1018.4	967.9	953.3	956.8	955.4	963.4	1042.2	1136.7	1004.9
45°	1200.6	1175.0	1086.9	1034.2	1036.2	1048.7	1056.5	1088.2	1205.6	1313.4	1142.4
47.5°	1276.0	1250.8	1152.6	1105.9	1129.7	1154.3	1175.4	1235.5	1373.5	1487.3	1249.4
50°	1340.6	1316.7	1222.2	1184.7	1238.3	1278.0	1312.2	1401.3	1554.2	1619.7	1324.5
52.5°	1393.4	1377.5	1294.5	1275.0	1362.4	1420.6	1470.6	1577.4	1714.2	1727.3	1382.8
55°	1444.8	1433.5	1372.1	1382.4	1508.1	1587.3	1650.6	1764.2	1851.9	1817.0	1438.8
57.5°	1503.9	1493.6	1460.7	1518.6	1699.7	1799.3	1868.4	1929.7	1973.2	1908.7	1491.6
60°	1564.3	1558.3	1559.1	1669.9	1919.6	2015.3	2053.4	2069.3	2092.3	1995.0	1494.6
62.5°	1621.8	1633.2	1671.7	1838.2	2130.2	2203.7	2222.9	2238.6	2211.6	2008.7	1380.9
65°	1719.3	1737.8	1829.7	2063.5	2361.9	2440.5	2460.4	2406.6	2230.5	1831.7	1123.2
67.5°	1767.0	1800.7	1964.7	2273.6	2586.6	2674.0	2666.6	2417.5	2001.6	1396.7	720.8
69°	1757.0	1793.0	1995.8	2337.9	2661.3	2740.5	2693.8	2283.9	1705.2	1011.8	442.5
70°	1717.7	1754.1	1979.8	2335.5	2670.8	2733.5	2643.4	2118.9	1441.8	739.9	276.7
72.5°	1434.5	1465.8	1757.6	2111.0	2460.4	2409.3	2211.4	1468.0	702.5	201.5	62.3
75°	883.0	900.5	1261.1	1590.3	1858.3	1727.3	1473.4	730.3	209.4	57.0	34.5
77.5°	466.5	474.4	690.4	937.4	1178.0	974.7	755.1	284.9	96.5	35.7	25.0
80°	275.7	281.7	371.8	428.6	509.8	425.8	301.9	174.9	69.1	22.4	22.2
82.5°	157.8	161.6	269.6	238.2	200.9	171.5	150.3	165.8	41.5	15.1	23.0
85°	58.0	58.8	151.7	181.2	119.5	71.1	74.6	137.4	11.1	9.5	18.1
87.5°	27.0	26.4	78.0	111.0	69.9	45.1	58.2	30.2	4.4	6.2	5.0
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: P193739

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	492.3	485.0	471.7	458.0	444.1	433.4	422.8	414.5	411.7	406.6	407.0
5°	477.2	463.7	435.9	407.7	378.4	354.1	331.3	312.9	303.9	294.8	294.8
7.5°	464.1	444.5	401.0	355.1	307.7	267.8	231.9	204.9	190.0	178.1	177.9
10°	459.2	432.6	371.8	306.1	240.0	185.6	142.9	115.5	101.4	92.3	91.9
12.5°	461.3	428.4	349.4	260.8	177.9	119.3	82.8	65.1	59.2	56.4	56.4
15°	467.7	427.2	326.9	216.6	125.7	74.6	55.0	50.2	49.8	49.8	49.8
17.5°	475.4	427.6	303.9	173.5	85.6	53.4	47.4	46.8	47.2	47.2	47.2
20°	483.4	427.8	279.1	133.6	60.3	46.5	44.7	44.5	44.9	44.9	45.1
22.5°	493.1	428.8	254.3	99.9	49.8	43.9	42.5	42.5	42.7	42.7	42.5
25°	504.2	430.8	228.5	74.0	45.5	42.1	40.9	40.7	40.9	40.7	40.5
27.5°	518.1	433.6	199.7	58.0	43.5	40.3	39.3	39.3	39.1	38.9	38.7
30°	535.6	436.7	167.3	49.2	41.5	38.7	37.7	37.5	37.3	36.9	36.9
32.5°	562.2	443.7	135.4	44.7	39.3	36.5	35.7	35.7	35.3	34.9	34.7
35°	603.1	457.4	106.8	41.9	36.9	34.1	33.2	33.2	32.8	32.6	32.4
37.5°	659.7	478.2	83.0	39.3	34.5	31.6	30.6	30.4	30.0	29.6	29.4
40°	734.9	504.0	65.3	36.9	32.2	29.0	28.2	27.8	27.0	26.4	26.4
42.5°	829.4	533.4	53.0	34.3	29.4	26.6	26.0	25.4	24.0	23.4	23.2
45°	928.2	559.8	44.9	31.4	26.6	24.2	23.8	22.8	21.0	20.4	20.4
47.5°	999.5	566.0	39.5	28.6	24.0	21.6	21.4	19.7	18.1	17.7	17.5
50°	1044.0	553.8	35.1	25.8	21.6	19.3	18.7	16.5	15.5	15.1	14.9
52.5°	1074.0	532.2	31.6	23.4	19.5	17.1	15.7	14.1	13.3	12.9	12.9
55°	1098.0	501.6	28.0	21.2	17.7	15.3	13.3	12.1	11.3	10.9	10.9
57.5°	1104.7	460.2	24.4	19.5	15.9	13.5	11.3	10.5	9.5	9.3	9.3
60°	1055.7	385.3	21.6	17.3	14.3	11.7	9.9	8.9	7.9	7.7	7.5
62.5°	926.5	298.2	19.1	15.3	12.5	10.1	8.5	7.3	6.6	6.6	6.6
65°	706.7	199.9	16.7	13.3	10.9	8.5	7.3	6.0	5.6	5.6	5.8
67.5°	423.0	108.8	14.3	11.3	9.3	7.1	6.2	5.2	5.0	5.2	5.2
69°	247.9	63.9	12.9	10.1	8.1	6.4	5.4	4.6	5.0	5.2	5.2
70°	153.1	43.1	11.9	9.1	7.3	5.8	5.0	4.4	4.8	5.0	5.0
72.5°	42.7	22.2	9.5	7.1	6.0	4.8	4.0	4.0	4.6	4.8	4.8
75°	27.8	16.5	7.3	5.4	4.6	3.8	3.4	3.8	4.4	4.6	4.6
77.5°	23.0	13.5	6.0	4.4	3.8	3.6	3.2	3.4	4.0	4.2	4.2
80°	21.0	9.5	4.8	4.0	3.4	3.2	3.0	2.8	3.6	3.8	3.8
82.5°	20.0	7.5	4.2	3.6	3.2	2.8	2.6	2.8	3.2	3.4	3.6
85°	12.5	5.0	3.8	3.4	2.8	2.6	2.6	2.6	3.0	3.2	3.2
87.5°	4.6	4.0	3.4	2.8	2.4	2.4	2.4	2.4	2.6	3.0	3.0
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)