

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: P193749

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193749  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 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: 4128 lumens  
Efficiency: N/A  
Efficacy: 70.0 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): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

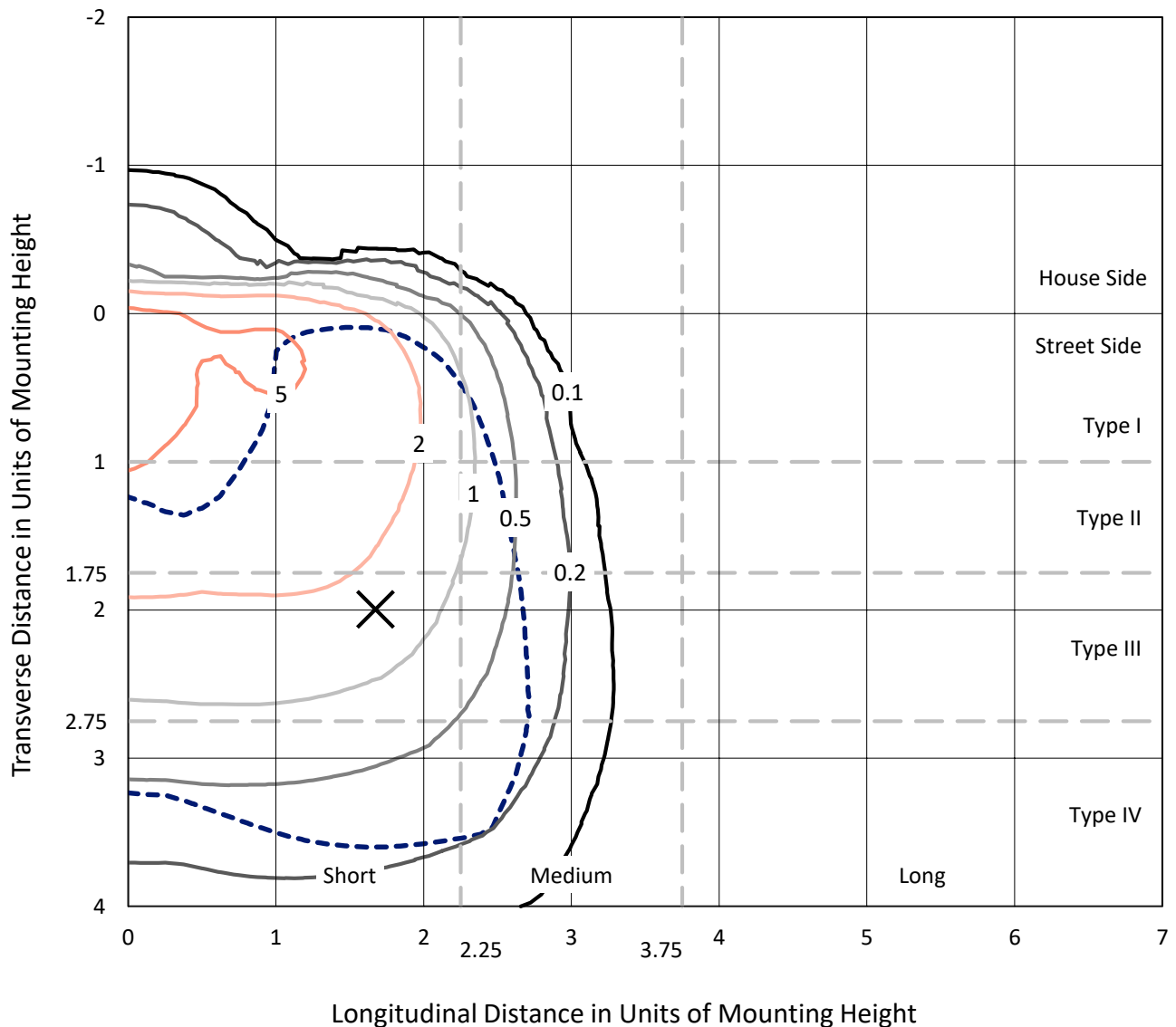


REPORT NUMBER: P193749

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

### Iso-Footcandle Lines of Horizontal Illumination

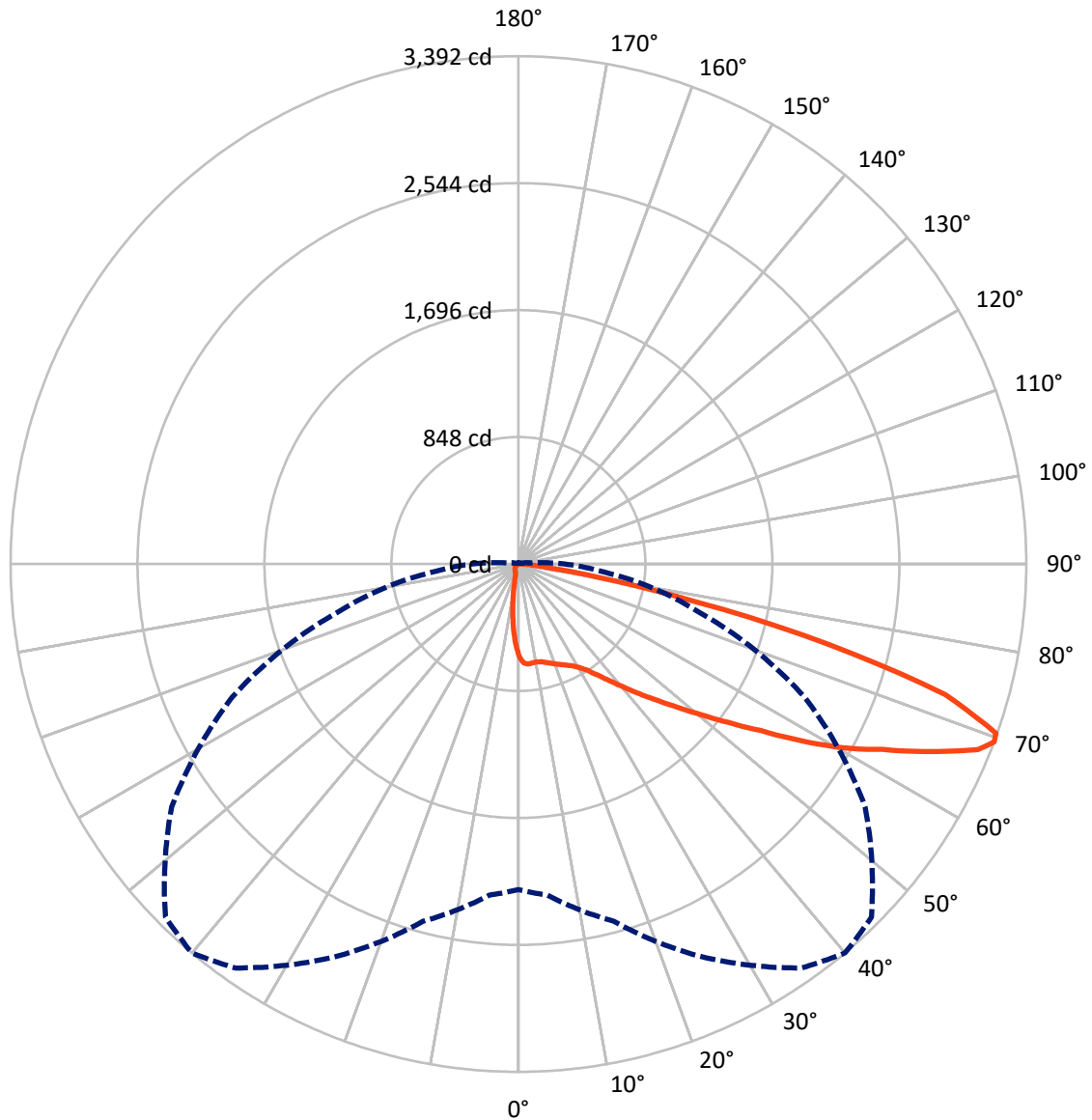
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193749  
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193749

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

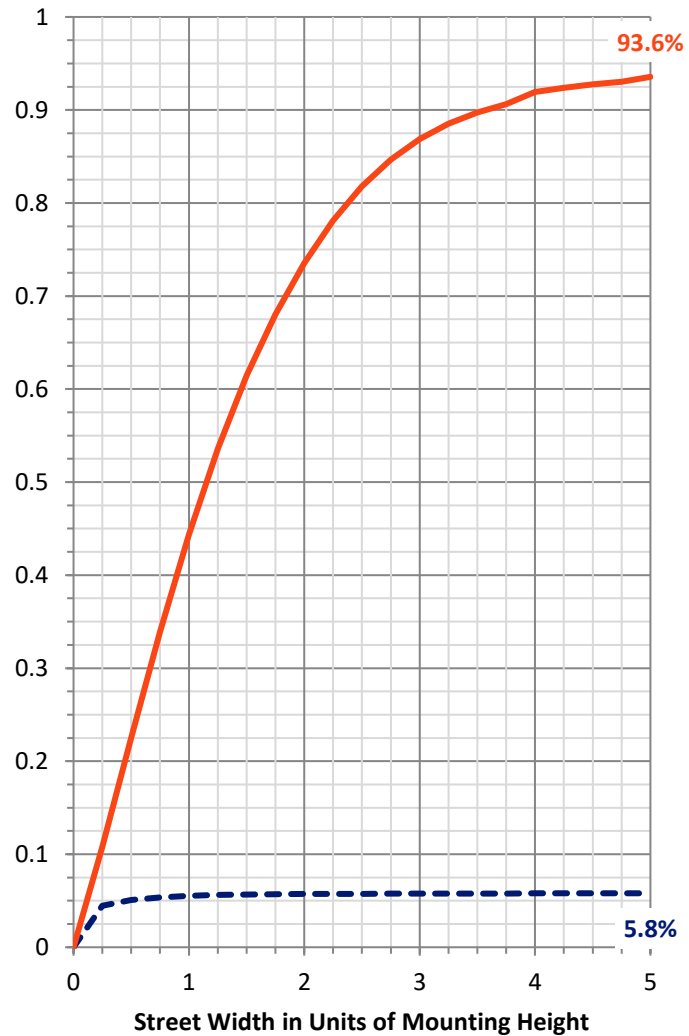
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	241.5	0.0	241.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	3886.5	0.0	3886.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	4128.0	0.0	4128.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	1.2
10°-20°	123.0	3.0
20°-30°	207.1	5.0
30°-40°	339.1	8.2
40°-50°	587.1	14.2
50°-60°	924.7	22.4
60°-70°	1207.7	29.3
70°-80°	622.0	15.1
80°-90°	67.3	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°	4128.0	100.0
0°-180°	4128.0	100.0



--- HS    — SS

REPORT NUMBER: P193749

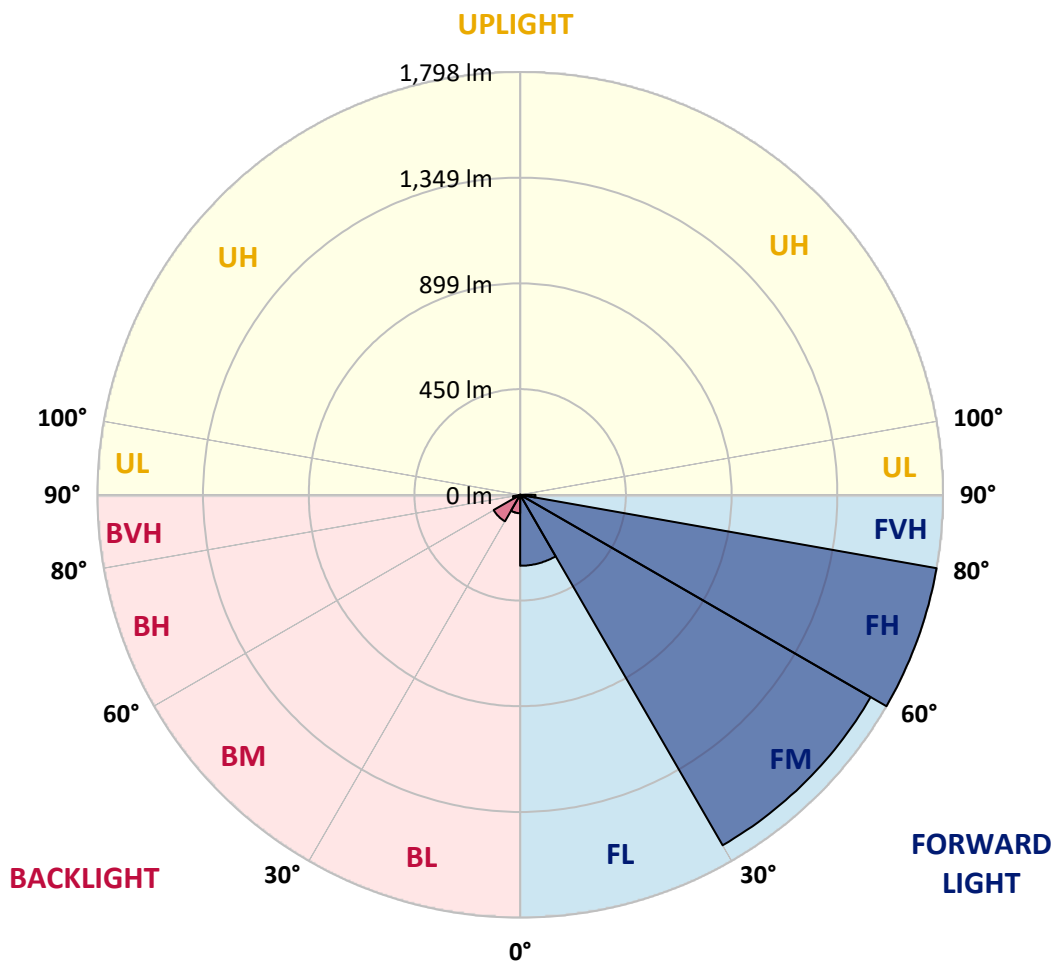
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.9	7.3			
FM	(30°-60°)	1721.1	41.7			
FH	(60°-80°)	1798.3	43.6			G1/1800
FVH	(80°-90°)	65.2	1.6			G1/100
BL	(0°-30°)	78.2	1.9	B0/110		
BM	(30°-60°)	129.8	3.1	B0/220		
BH	(60°-80°)	31.4	0.8	B0/110		G0/110
BVH	(80°-90°)	2.1	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: P193749

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7
2.5°	677.2	673.5	671.3	668.3	664.7	661.5	660.2	651.1	642.5	630.8	617.2
5°	689.7	688.5	684.6	680.6	676.2	671.3	668.6	657.8	645.5	628.3	604.7
7.5°	691.0	689.5	684.6	679.2	673.0	667.1	662.4	651.6	640.3	622.9	594.1
10°	689.0	687.3	683.6	677.7	670.1	664.4	659.7	649.4	639.8	624.1	592.2
12.5°	686.8	685.1	683.3	680.4	673.8	669.8	665.9	656.1	647.5	634.2	599.3
15°	689.0	688.0	690.0	688.7	685.1	681.6	677.7	668.8	661.0	649.9	612.3
17.5°	698.3	698.3	704.5	705.2	701.8	696.8	691.2	682.4	675.7	666.4	627.8
20°	720.2	719.5	727.3	728.8	720.4	712.8	704.5	693.7	688.5	682.6	643.0
22.5°	757.8	754.3	759.0	757.5	741.1	729.3	719.0	705.7	703.0	700.3	660.0
25°	806.7	804.7	807.9	793.4	764.4	748.4	736.2	721.2	721.2	723.9	679.2
27.5°	877.7	870.3	859.5	834.0	790.5	770.1	756.8	740.8	745.0	755.1	704.5
30°	950.4	942.3	917.5	878.2	822.2	800.8	785.3	768.6	778.4	796.9	738.4
32.5°	1022.2	1013.1	977.9	928.3	867.6	846.2	831.3	812.8	829.3	860.2	788.0
35°	1091.7	1083.6	1043.1	984.6	928.1	910.4	896.6	880.6	901.8	945.0	858.0
37.5°	1169.8	1161.0	1111.6	1048.2	1001.5	988.8	978.7	962.7	999.6	1063.0	955.6
40°	1265.9	1250.9	1184.3	1121.2	1086.6	1080.4	1073.5	1071.3	1128.6	1216.3	1085.6
42.5°	1376.0	1351.4	1260.5	1198.1	1179.9	1184.3	1182.6	1192.5	1290.0	1407.0	1243.8
45°	1486.1	1454.4	1345.3	1280.2	1282.6	1298.1	1307.7	1347.0	1492.2	1625.6	1414.1
47.5°	1579.5	1548.2	1426.6	1368.9	1398.4	1428.8	1454.9	1529.3	1700.1	1840.9	1546.5
50°	1659.3	1629.8	1512.9	1466.4	1532.8	1581.9	1624.2	1734.5	1923.7	2004.8	1639.4
52.5°	1724.7	1705.0	1602.3	1578.2	1686.3	1758.3	1820.3	1952.5	2121.7	2138.0	1711.7
55°	1788.3	1774.3	1698.4	1711.2	1866.7	1964.7	2043.1	2183.7	2292.3	2249.0	1780.9
57.5°	1861.5	1848.8	1808.0	1879.7	2103.8	2227.2	2312.7	2388.6	2442.4	2362.5	1846.3
60°	1936.2	1928.9	1929.8	2067.0	2376.1	2494.5	2541.7	2561.3	2589.8	2469.4	1850.0
62.5°	2007.5	2021.5	2069.2	2275.3	2636.8	2727.7	2751.5	2770.9	2737.5	2486.4	1709.2
65°	2128.1	2151.0	2264.8	2554.2	2923.5	3020.8	3045.4	2978.8	2760.9	2267.2	1390.3
67.5°	2187.1	2228.9	2431.8	2814.2	3201.7	3309.8	3300.7	2992.3	2477.5	1728.9	892.2
69°	2174.8	2219.3	2470.4	2893.8	3294.1	3392.1	3334.4	2827.0	2110.7	1252.4	547.7
70°	2126.2	2171.1	2450.5	2890.8	3305.8	3383.5	3271.9	2622.8	1784.6	915.8	342.5
72.5°	1775.5	1814.4	2175.6	2612.9	3045.4	2982.2	2737.3	1817.1	869.6	249.4	77.2
75°	1092.9	1114.6	1561.0	1968.4	2300.1	2138.0	1823.7	904.0	259.2	70.5	42.8
77.5°	577.4	587.3	854.6	1160.3	1458.1	1206.5	934.7	352.6	119.4	44.2	31.0
80°	341.3	348.7	460.2	530.5	631.0	527.1	373.7	216.5	85.5	27.8	27.5
82.5°	195.3	200.0	333.7	294.9	248.7	212.3	186.0	205.2	51.4	18.7	28.5
85°	71.7	72.7	187.7	224.3	147.9	88.0	92.4	170.0	13.8	11.8	22.4
87.5°	33.4	32.7	96.6	137.4	86.5	55.8	72.0	37.3	5.4	7.6	6.1
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: P193749

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7
2.5°	609.4	600.3	583.8	566.9	549.7	536.4	523.4	513.1	509.6	503.2	503.7
5°	590.7	574.0	539.6	504.7	468.3	438.4	410.1	387.2	376.2	364.9	364.9
7.5°	574.5	550.2	496.3	439.6	380.9	331.5	287.0	253.6	235.1	220.4	220.2
10°	568.3	535.4	460.2	378.9	297.1	229.7	176.9	143.0	125.6	114.3	113.8
12.5°	571.0	530.3	432.5	322.9	220.2	147.7	102.5	80.6	73.2	69.8	69.8
15°	578.9	528.8	404.7	268.1	155.5	92.4	68.1	62.2	61.7	61.7	61.7
17.5°	588.5	529.3	376.2	214.8	105.9	66.1	58.7	58.0	58.5	58.5	58.5
20°	598.3	529.5	345.5	165.4	74.7	57.5	55.3	55.0	55.5	55.5	55.8
22.5°	610.4	530.7	314.8	123.6	61.7	54.3	52.6	52.6	52.8	52.8	52.6
25°	624.1	533.2	282.8	91.7	56.3	52.1	50.6	50.4	50.6	50.4	50.1
27.5°	641.3	536.6	247.2	71.7	53.8	49.9	48.7	48.7	48.4	48.2	47.9
30°	662.9	540.6	207.1	60.9	51.4	47.9	46.7	46.4	46.2	45.7	45.7
32.5°	695.9	549.2	167.6	55.3	48.7	45.2	44.2	44.2	43.7	43.2	43.0
35°	746.5	566.1	132.2	51.8	45.7	42.3	41.0	41.0	40.5	40.3	40.1
37.5°	816.5	591.9	102.7	48.7	42.8	39.1	37.8	37.6	37.1	36.6	36.4
40°	909.6	623.9	80.8	45.7	39.8	35.9	34.9	34.4	33.4	32.7	32.7
42.5°	1026.6	660.2	65.6	42.5	36.4	32.9	32.2	31.5	29.7	29.0	28.7
45°	1149.0	692.9	55.5	38.8	32.9	30.0	29.5	28.3	26.0	25.3	25.3
47.5°	1237.2	700.5	48.9	35.4	29.7	26.8	26.5	24.3	22.4	21.9	21.6
50°	1292.2	685.5	43.5	31.9	26.8	23.8	23.1	20.4	19.2	18.7	18.4
52.5°	1329.3	658.8	39.1	29.0	24.1	21.1	19.4	17.4	16.5	16.0	16.0
55°	1359.0	620.9	34.6	26.3	21.9	18.9	16.5	15.0	14.0	13.5	13.5
57.5°	1367.4	569.6	30.2	24.1	19.7	16.7	14.0	13.0	11.8	11.5	11.5
60°	1306.7	476.9	26.8	21.4	17.7	14.5	12.3	11.1	9.8	9.6	9.3
62.5°	1146.8	369.1	23.6	18.9	15.5	12.5	10.6	9.1	8.1	8.1	8.1
65°	874.7	247.4	20.6	16.5	13.5	10.6	9.1	7.4	6.9	6.9	7.1
67.5°	523.6	134.7	17.7	14.0	11.5	8.8	7.6	6.4	6.1	6.4	6.4
69°	306.9	79.1	16.0	12.5	10.1	7.9	6.6	5.7	6.1	6.4	6.4
70°	189.4	53.3	14.7	11.3	9.1	7.1	6.1	5.4	5.9	6.1	6.1
72.5°	52.8	27.5	11.8	8.8	7.4	5.9	4.9	4.9	5.7	5.9	5.9
75°	34.4	20.4	9.1	6.6	5.7	4.7	4.2	4.7	5.4	5.7	5.7
77.5°	28.5	16.7	7.4	5.4	4.7	4.4	3.9	4.2	4.9	5.2	5.2
80°	26.0	11.8	5.9	4.9	4.2	3.9	3.7	3.4	4.4	4.7	4.7
82.5°	24.8	9.3	5.2	4.4	3.9	3.4	3.2	3.4	3.9	4.2	4.4
85°	15.5	6.1	4.7	4.2	3.4	3.2	3.2	3.2	3.7	3.9	3.9
87.5°	5.7	4.9	4.2	3.4	2.9	2.9	2.9	2.9	3.2	3.7	3.7
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)