

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: P647712

Luminaire Tested: **GALN-SA1A-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3616.7 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

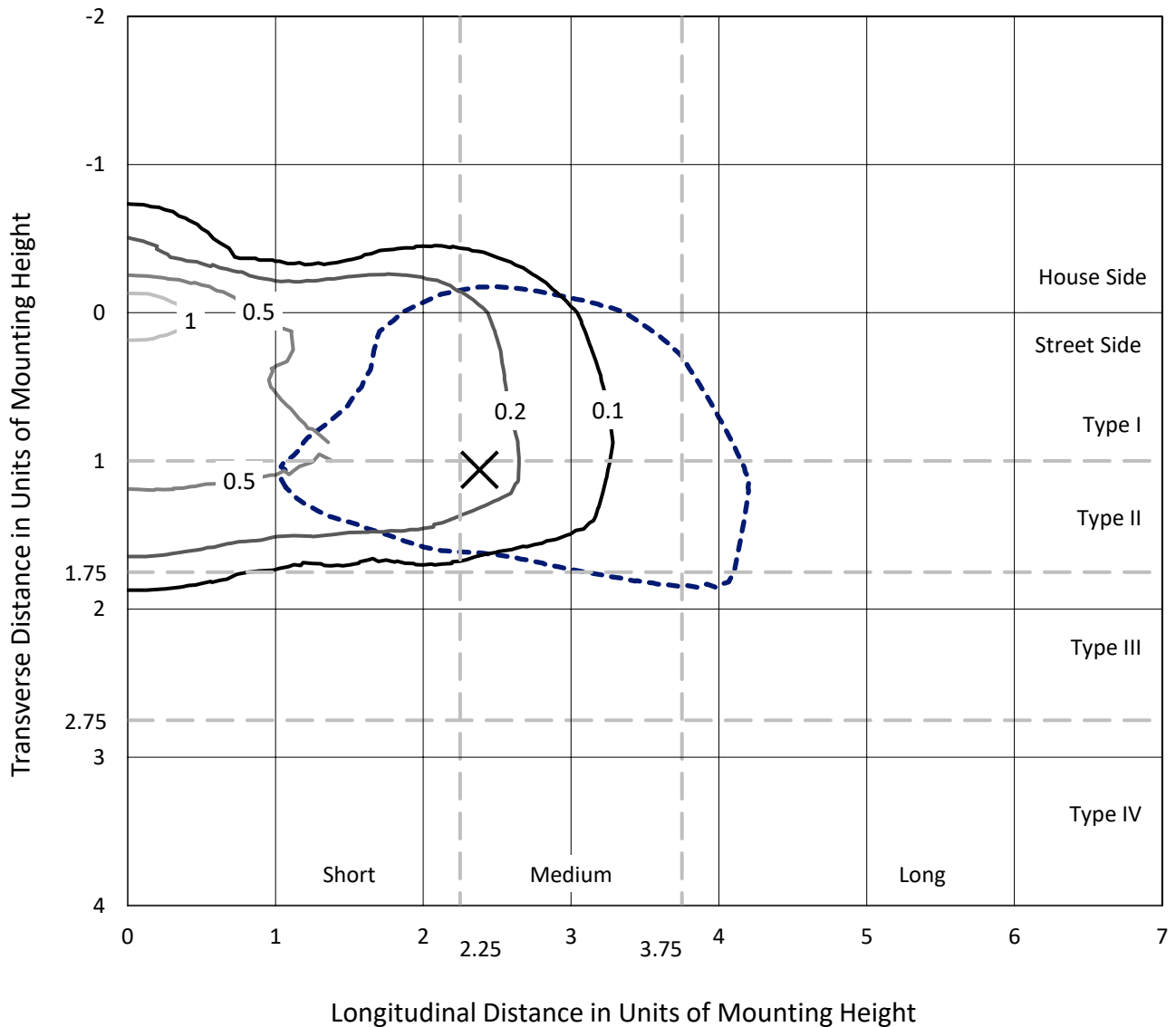
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647712  
 CATALOG NUMBER: GALN-SA1A-835-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

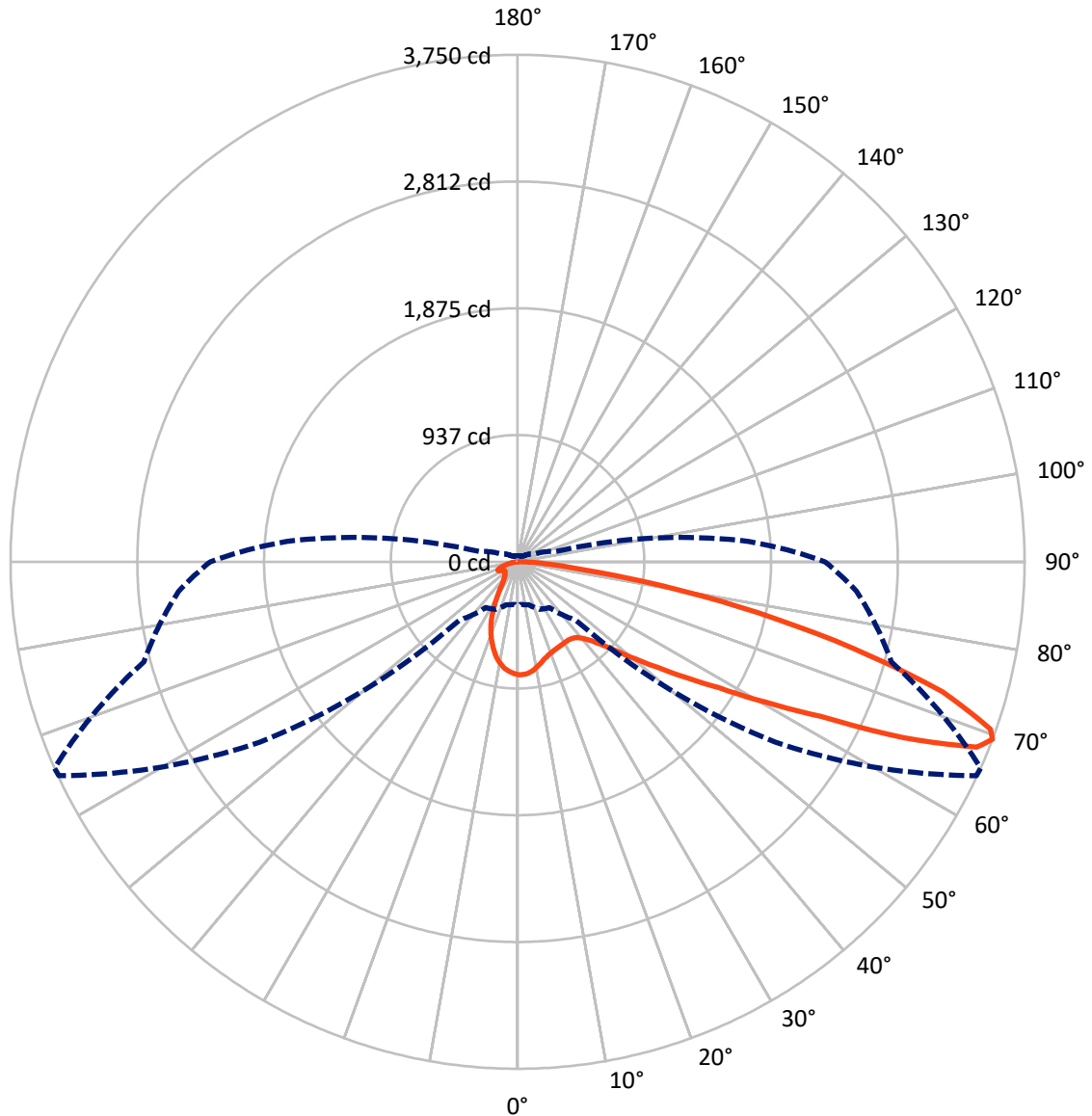
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P647712  
CATALOG NUMBER: GALN-SA1A-835-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P647712  
 CATALOG NUMBER: GALN-SA1A-835-U-SL2

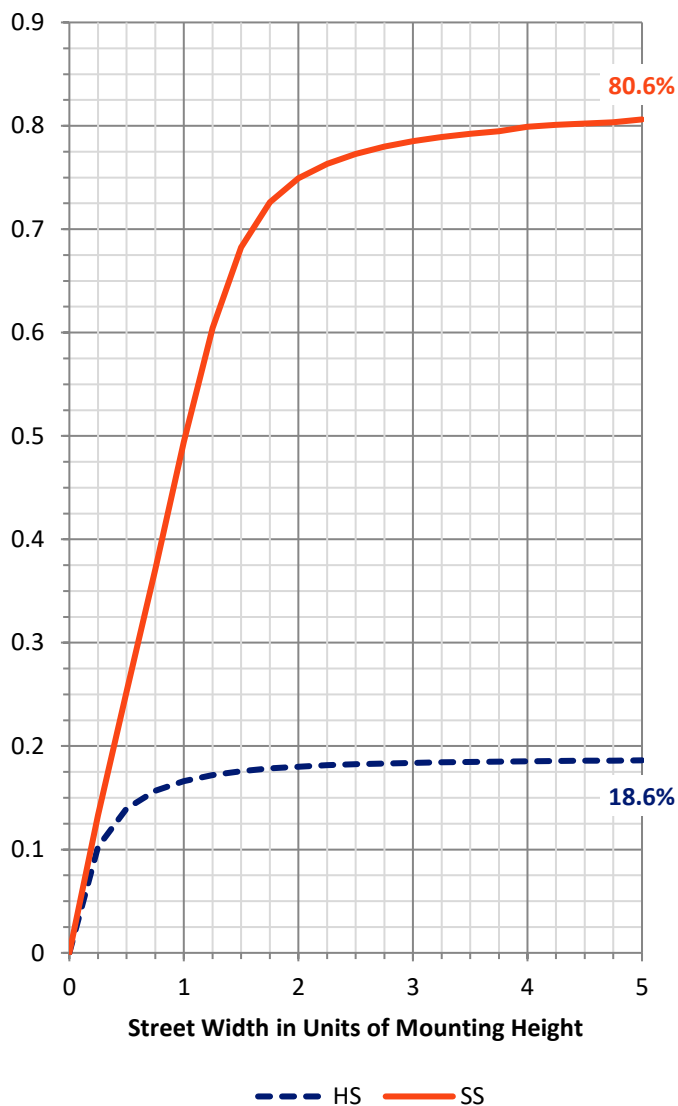
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	680.2	0.0	680.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	2936.5	0.0	2936.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3616.7	0.0	3616.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	2.0
10°-20°	172.0	4.8
20°-30°	234.2	6.5
30°-40°	314.7	8.7
40°-50°	469.9	13.0
50°-60°	747.5	20.7
60°-70°	919.3	25.4
70°-80°	598.2	16.5
80°-90°	88.3	2.4
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°	3616.7	100.0
0°-180°	3616.7	100.0

**Coefficient of Utilization**

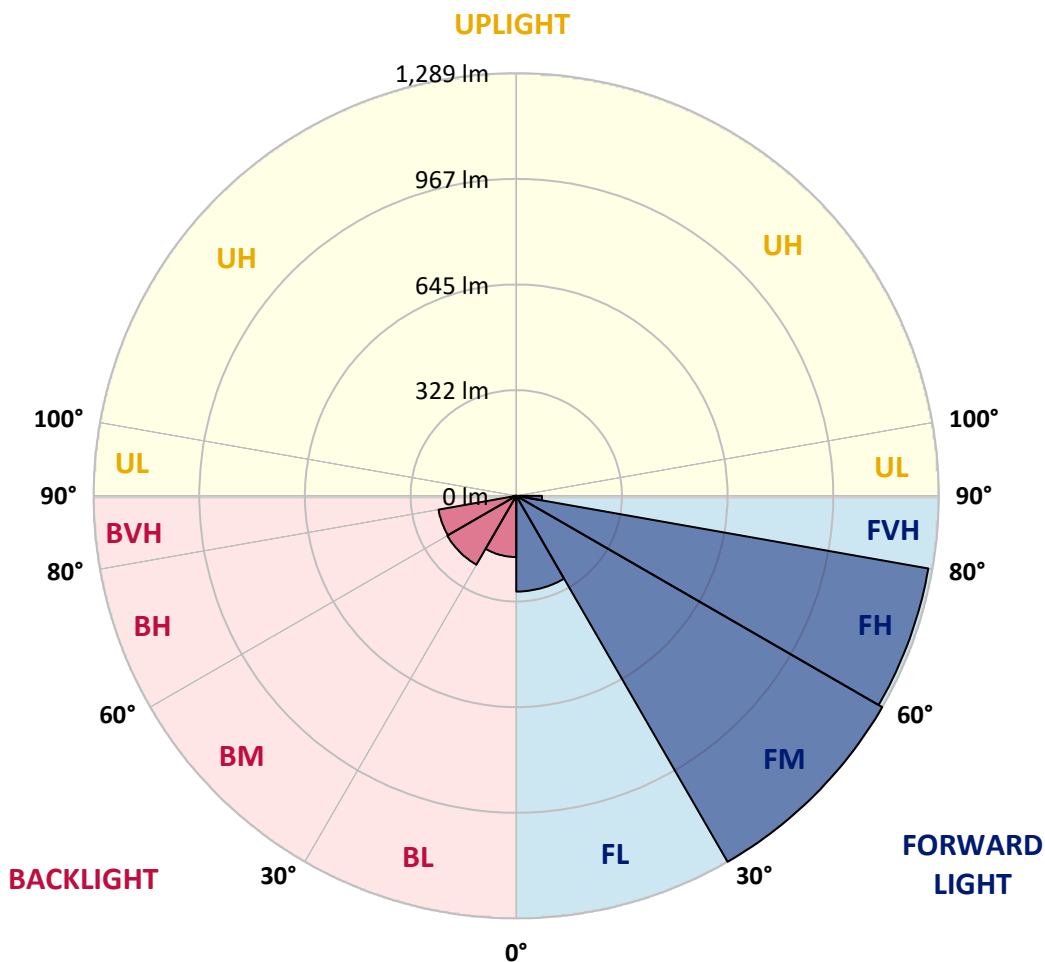


REPORT NUMBER: P647712  
 CATALOG NUMBER: GALN-SA1A-835-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.0	8.1			
FM (30°-60°)	1289.2	35.6			
FH (60°-80°)	1276.7	35.3			G1/1800
FVH (80°-90°)	78.5	2.2			G1/100
BL (0°-30°)	186.7	5.2	B1/500		
BM (30°-60°)	242.8	6.7	B1/1000		
BH (60°-80°)	240.8	6.7	B1/500		G1/500
BVH (80°-90°)	9.8	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





REPORT NUMBER: P647712  
 CATALOG NUMBER: GALN-SA1A-835-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2
2.5°	805.9	809.2	812.8	816.7	824.3	828.6	831.6	835.0	835.4	837.2	835.8
5°	746.4	750.3	755.7	763.3	774.7	792.6	811.0	826.0	827.8	836.2	838.6
7.5°	696.8	699.0	703.4	715.6	731.9	751.7	778.5	808.9	813.4	833.4	840.4
10°	656.3	658.5	663.7	676.4	692.4	717.2	746.7	786.8	790.4	824.8	840.8
12.5°	626.1	628.1	633.7	646.1	664.5	687.8	720.2	762.7	767.9	813.4	837.0
15°	603.1	606.9	611.4	621.7	641.1	663.5	695.0	740.6	744.9	801.3	834.4
17.5°	593.3	595.1	598.3	607.7	621.9	643.9	675.6	723.4	728.4	792.9	833.8
20°	593.7	595.5	596.0	601.3	611.4	630.5	661.7	709.8	715.8	785.5	834.8
22.5°	607.3	607.5	605.3	603.5	607.5	623.3	651.9	699.6	706.6	782.3	835.6
25°	628.3	631.9	628.7	620.3	612.9	620.4	648.1	694.0	700.6	777.7	834.6
27.5°	662.3	663.0	660.3	649.0	629.7	624.1	646.5	689.7	695.4	774.3	829.6
30°	708.0	706.2	703.8	691.2	660.9	637.9	649.9	686.0	691.8	769.3	823.6
32.5°	754.3	759.9	757.7	742.8	703.6	664.8	660.9	685.6	690.4	765.5	817.0
35°	803.4	805.9	816.4	808.8	768.5	708.2	681.6	691.8	695.6	765.7	812.4
37.5°	841.8	848.8	873.3	879.9	842.0	765.7	715.0	709.4	711.0	775.5	814.2
40°	888.2	900.3	931.7	958.8	934.0	840.4	771.9	742.0	744.1	799.1	826.0
42.5°	947.1	955.6	997.9	1034.5	1030.5	939.1	840.8	795.5	796.5	846.2	859.0
45°	1016.0	1028.1	1075.5	1130.6	1140.0	1050.9	940.3	876.4	875.9	919.3	920.7
47.5°	1104.2	1111.5	1158.7	1218.7	1256.8	1191.3	1061.1	992.6	986.2	1025.9	1014.5
50°	1185.3	1196.9	1232.5	1298.2	1393.0	1355.8	1219.9	1143.3	1128.2	1165.3	1146.0
52.5°	1219.4	1231.6	1261.6	1343.1	1509.8	1568.4	1421.6	1322.9	1297.8	1326.3	1319.3
55°	1160.2	1176.1	1204.1	1303.2	1561.0	1813.8	1693.6	1530.6	1512.4	1500.1	1502.1
57.5°	1001.5	1016.4	1054.3	1163.7	1499.8	1991.9	2082.0	1797.5	1758.5	1702.2	1711.9
60°	762.3	771.7	791.3	912.5	1318.1	2038.1	2523.0	2135.0	2110.2	1903.6	1910.4
62.5°	541.4	552.0	565.6	626.1	965.0	1907.7	2868.3	2606.3	2517.6	2112.0	2105.4
65°	439.7	432.5	448.8	477.1	566.2	1478.5	2946.0	3260.4	3138.3	2386.6	2294.9
67.5°	361.5	353.9	370.1	420.4	430.6	858.2	2666.0	3685.0	3660.6	2685.2	2487.4
69°	320.1	316.0	330.3	387.6	413.4	609.5	2322.5	3744.1	3749.9	2861.3	2517.0
70°	288.4	290.0	303.8	370.9	405.6	502.5	1985.1	3662.6	3711.9	2949.2	2484.9
72.5°	212.3	215.7	234.9	307.2	398.2	426.4	1181.3	3199.2	3286.3	2954.4	2273.2
75°	148.4	146.8	163.8	231.3	376.2	422.6	693.8	2474.1	2572.9	2553.7	1910.1
77.5°	97.2	99.8	113.4	163.4	316.5	419.4	452.3	1755.3	1819.4	1707.8	1129.8
80°	68.5	68.3	75.9	111.6	234.7	403.0	370.4	1106.4	1090.2	671.2	335.0
82.5°	39.2	42.0	50.9	78.5	157.0	354.7	340.7	529.2	483.1	191.3	113.1
85°	21.8	22.9	30.2	47.4	91.8	267.2	297.5	240.8	227.1	79.9	48.7
87.5°	7.0	7.6	12.6	24.0	41.7	126.1	168.4	111.2	102.6	28.8	19.7
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: P647712  
 CATALOG NUMBER: GALN-SA1A-835-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2
2.5°	836.4	838.8	832.4	826.1	820.6	812.8	805.8	799.9	795.9	795.4	793.3
5°	839.2	839.4	827.2	810.7	794.7	777.1	758.9	745.9	733.7	726.9	723.4
7.5°	841.2	839.4	817.4	790.8	759.9	727.9	695.8	670.2	650.4	642.5	645.5
10°	840.4	834.8	802.6	759.9	715.0	667.1	621.1	585.1	552.0	534.9	535.3
12.5°	836.0	826.8	780.5	725.2	659.4	595.2	524.8	476.1	437.9	415.2	408.2
15°	832.2	816.2	754.7	678.2	596.3	504.7	418.8	358.7	326.7	308.8	308.7
17.5°	828.2	805.9	726.5	628.3	523.7	406.0	315.9	270.0	254.9	256.7	253.8
20°	824.0	794.0	697.0	572.8	435.4	302.9	236.5	217.9	222.1	230.4	231.5
22.5°	819.2	781.1	665.3	511.8	342.5	227.9	191.8	189.1	199.9	212.7	214.5
25°	811.7	765.1	625.5	447.9	264.2	183.7	168.0	170.1	180.6	191.4	192.7
27.5°	801.3	745.3	585.2	368.1	198.5	157.6	153.6	156.2	161.5	168.0	169.7
30°	787.3	722.9	538.9	299.3	159.0	144.6	143.0	144.4	147.4	150.2	151.0
32.5°	773.3	701.2	492.3	229.1	141.8	136.0	134.4	134.4	134.4	134.8	135.0
35°	760.3	680.7	442.2	178.4	132.8	129.2	127.0	124.6	124.2	122.8	122.8
37.5°	753.1	662.2	388.9	149.4	126.1	123.6	120.6	116.6	114.4	114.6	114.2
40°	754.5	649.9	340.4	133.0	120.7	118.0	113.4	108.8	107.3	107.3	107.0
42.5°	770.3	645.9	294.0	124.3	115.6	112.4	106.6	102.3	101.6	101.3	101.7
45°	806.7	655.8	252.4	118.8	111.2	106.3	100.5	96.7	95.9	95.9	95.8
47.5°	877.8	687.6	222.5	115.2	108.0	101.7	95.8	91.9	90.5	90.1	90.1
50°	988.4	756.7	200.3	112.0	104.0	97.6	91.3	86.9	84.7	84.5	84.3
52.5°	1142.0	864.4	191.7	109.5	99.5	93.1	86.3	82.1	79.3	78.7	78.3
55°	1321.7	1014.8	203.5	107.7	94.9	88.1	81.1	76.7	74.1	72.9	72.7
57.5°	1529.7	1195.5	248.4	105.3	90.7	82.7	75.9	71.5	68.7	67.3	66.9
60°	1716.6	1381.1	326.7	104.0	87.1	76.9	69.9	65.9	63.3	61.9	61.7
62.5°	1922.0	1558.2	420.2	107.7	85.5	71.3	64.3	60.7	58.5	57.1	57.1
65°	2141.3	1735.4	482.1	120.6	87.9	66.9	58.3	55.3	53.2	52.3	52.1
67.5°	2289.1	1796.8	397.1	133.8	94.0	62.1	52.5	50.0	48.9	47.8	47.8
69°	2273.0	1719.2	293.0	137.2	95.8	59.7	49.3	47.4	45.9	45.5	45.1
70°	2222.4	1630.9	245.5	135.0	94.4	57.5	47.3	45.1	43.7	43.3	43.1
72.5°	1979.4	1414.4	182.8	117.4	80.3	49.9	41.9	39.9	38.7	38.1	38.1
75°	1644.5	1156.0	142.8	93.3	62.9	42.0	35.9	34.2	33.3	32.8	32.7
77.5°	921.7	645.5	102.6	73.1	47.7	34.1	30.1	28.7	27.6	27.2	27.2
80°	256.7	184.5	60.3	48.2	32.4	25.8	23.8	22.9	21.5	20.4	21.1
82.5°	96.7	79.9	34.5	29.0	20.6	17.2	16.6	15.8	15.2	13.8	13.8
85°	47.1	38.8	22.0	15.4	11.4	9.0	8.6	8.2	7.8	6.8	7.0
87.5°	16.2	17.2	9.6	5.6	3.4	2.2	1.8	1.0	1.0	1.0	1.0
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)