

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: P528319

Luminaire Tested: **GALN-SA3B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8259 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

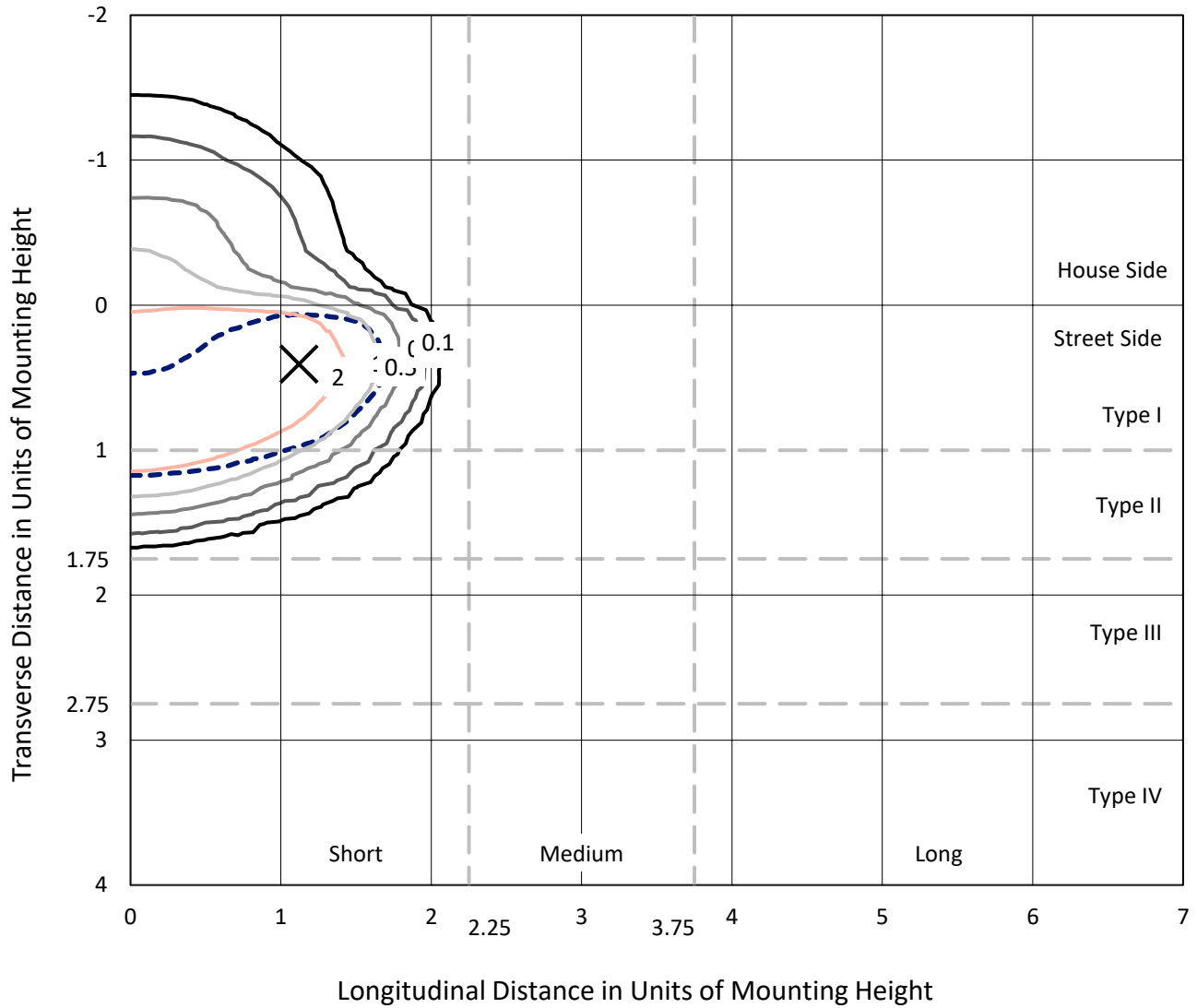
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528319  
 CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

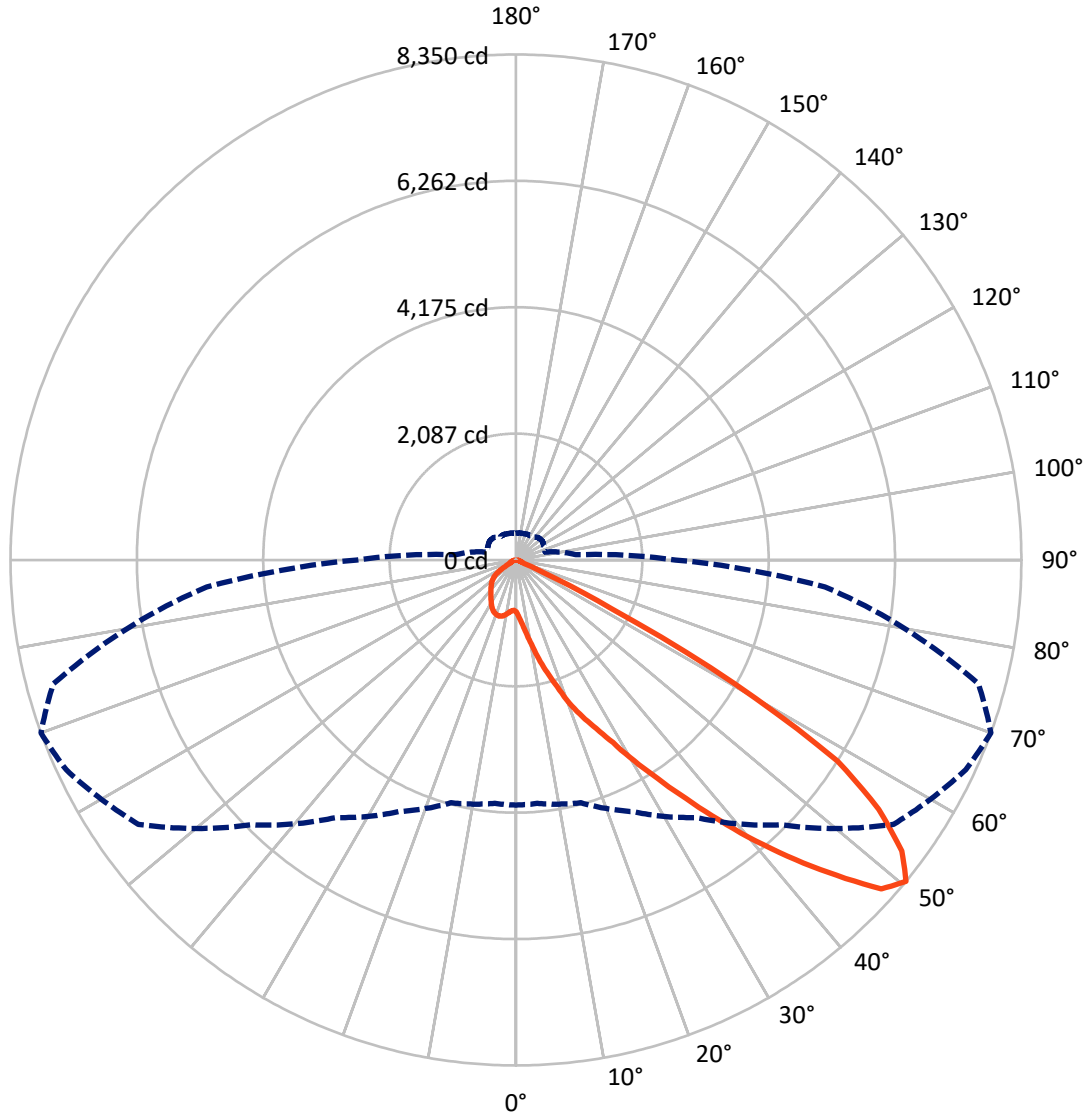
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P528319  
CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528319

CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

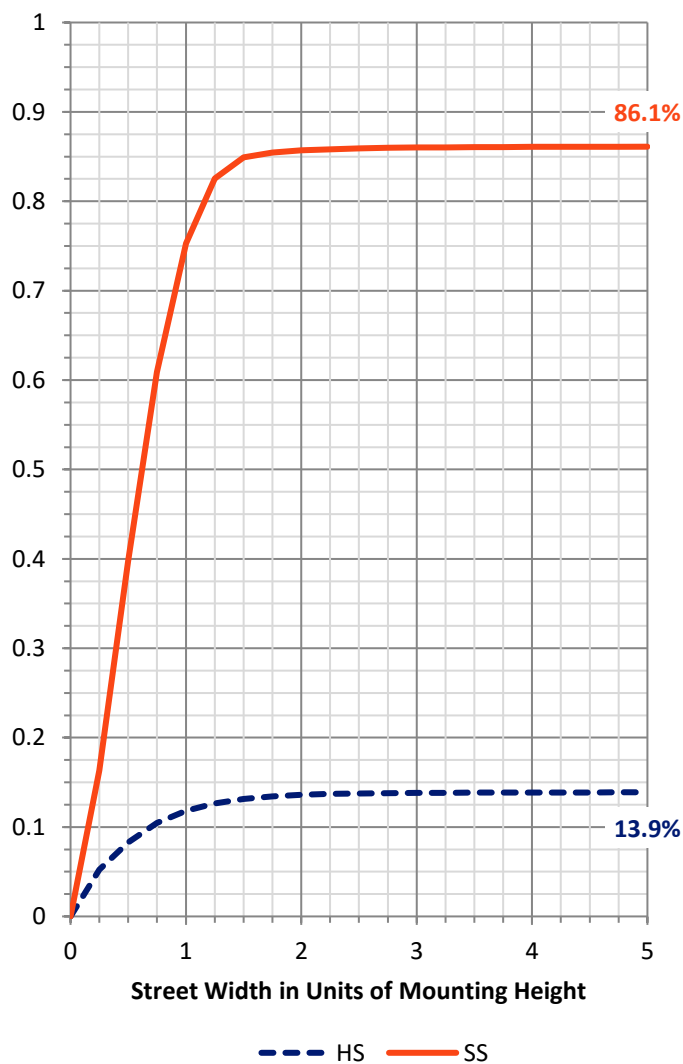
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1153.4	0.0	1153.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7105.6	0.0	7105.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8259.0	0.0	8259.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	1.3
10°-20°	481.2	5.8
20°-30°	1009.5	12.2
30°-40°	1740.0	21.1
40°-50°	2543.0	30.8
50°-60°	1980.6	24.0
60°-70°	335.6	4.1
70°-80°	46.1	0.6
80°-90°	11.9	0.1
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°	8259.0	100.0
0°-180°	8259.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528319

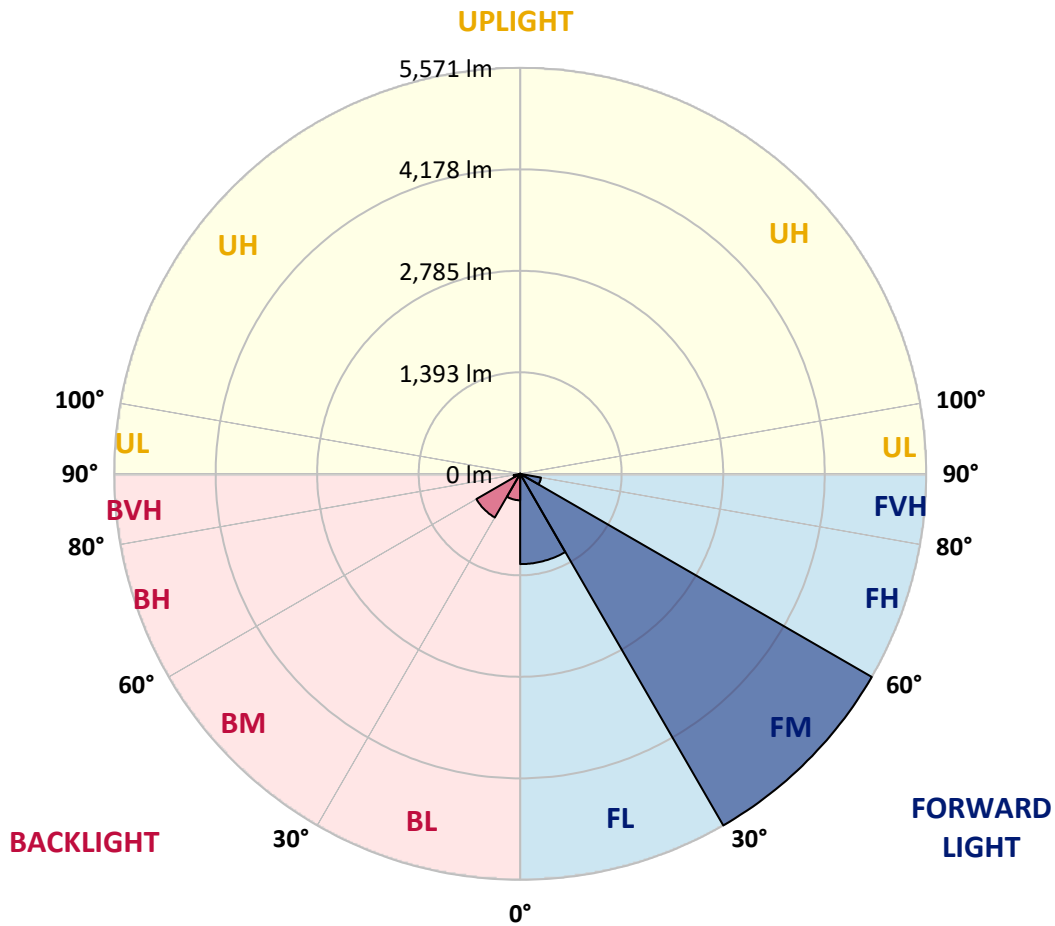
CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.9	15.0			
FM (30°-60°)	5570.6	67.4			
FH (60°-80°)	290.6	3.5			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	363.0	4.4	B1/500		
BM (30°-60°)	692.9	8.4	B1/1000		
BH (60°-80°)	91.1	1.1	B0/110		G0/110
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





REPORT NUMBER: P528319

CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	1120.3	1112.1	1094.5	1061.9	1048.3	1015.7	996.7	960.0	936.9	911.1	882.6
5°	1577.9	1535.8	1510.0	1473.3	1366.0	1299.5	1189.5	1095.8	1052.4	1004.8	939.7
7.5°	2050.4	2023.3	1987.9	1909.2	1835.9	1697.4	1508.6	1302.2	1214.0	1132.5	1003.5
10°	2441.5	2365.4	2361.4	2303.0	2222.9	2057.2	1830.4	1573.8	1416.3	1296.8	1094.5
12.5°	2714.4	2645.2	2676.4	2669.6	2594.9	2442.8	2180.8	1841.3	1677.0	1491.0	1188.2
15°	2962.9	2934.4	2924.9	2916.7	2886.9	2774.2	2539.3	2167.2	1929.6	1705.5	1294.1
17.5°	3206.0	3132.6	3168.0	3174.7	3172.0	3070.2	2850.2	2476.8	2197.1	1932.3	1405.4
20°	3421.9	3428.7	3381.1	3371.6	3363.5	3359.4	3144.9	2783.7	2525.7	2169.9	1550.7
22.5°	3698.9	3651.4	3693.5	3666.3	3613.3	3580.8	3416.4	3055.2	2810.8	2456.4	1698.7
25°	4026.1	4064.2	3965.0	3954.2	3895.8	3783.1	3635.1	3359.4	3085.1	2722.6	1858.9
27.5°	4429.4	4362.9	4337.1	4277.3	4171.4	4123.9	3950.1	3673.1	3416.4	3002.3	2013.7
30°	4775.7	4758.0	4629.0	4558.4	4466.1	4464.7	4221.7	4098.1	3848.3	3440.9	2226.9
32.5°	5058.1	4980.7	4933.2	4884.3	4809.6	4830.0	4625.0	4559.8	4308.6	3848.3	2478.1
35°	5246.9	5191.2	5162.7	5088.0	5066.3	5157.3	5071.7	5044.6	4838.2	4421.3	2772.8
37.5°	5306.6	5324.3	5318.8	5225.2	5271.3	5517.1	5627.1	5556.5	5447.8	5025.5	3091.9
40°	5359.6	5371.8	5344.6	5454.6	5586.4	5866.1	6263.9	6147.2	6106.4	5638.0	3535.9
42.5°	5389.5	5380.0	5380.0	5570.1	5769.7	6331.8	6879.1	6801.7	6770.4	6289.7	4049.2
45°	5260.5	5168.1	5267.2	5525.2	5927.2	6561.3	7370.6	7477.9	7433.1	7065.1	4649.4
47.5°	4778.4	4835.4	4891.1	5236.0	5735.7	6490.7	7672.1	8037.3	8120.2	7716.9	5043.2
50°	4049.2	4037.0	4152.4	4586.9	5193.9	6186.5	7613.7	8198.9	8349.7	7912.4	5126.0
52.5°	2945.3	3034.9	3159.8	3591.6	4311.3	5399.0	6860.1	7782.1	7983.0	7672.1	5071.7
55°	1715.0	1615.9	1897.0	2262.2	2941.2	4072.3	5799.5	6898.1	7270.1	7234.8	4797.4
57.5°	687.1	665.4	761.8	1026.6	1534.4	2524.3	4217.6	5667.8	6263.9	6626.5	4216.2
60°	301.5	294.7	346.3	418.2	627.3	1163.7	2307.1	3525.1	4147.0	4630.4	2901.8
62.5°	217.3	214.5	240.3	266.1	331.3	506.5	969.5	1420.4	1770.7	2138.7	1299.5
65°	175.2	182.0	199.6	213.2	244.4	281.1	342.2	395.1	484.8	502.4	286.5
67.5°	142.6	148.0	164.3	179.2	184.7	152.1	157.5	138.5	138.5	123.6	99.1
70°	104.6	105.9	124.9	142.6	114.1	61.1	107.3	107.3	96.4	92.3	84.2
72.5°	77.4	78.8	93.7	88.3	44.8	38.0	78.8	86.9	78.8	74.7	67.9
75°	57.0	58.4	48.9	20.4	19.0	24.4	46.2	59.7	57.0	55.7	51.6
77.5°	10.9	8.1	6.8	9.5	13.6	20.4	29.9	36.7	38.0	40.7	38.0
80°	1.4	1.4	4.1	8.1	14.9	21.7	31.2	35.3	36.7	38.0	35.3
82.5°	0.0	1.4	4.1	8.1	14.9	20.4	27.2	31.2	33.9	35.3	33.9
85°	0.0	1.4	2.7	6.8	12.2	14.9	13.6	9.5	8.1	9.5	6.8
87.5°	0.0	0.0	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P528319

CATALOG NUMBER: GALN-SA3B-827-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	866.3	860.9	841.9	821.5	803.9	812.0	803.9	797.1	799.8	797.1	794.4
5°	913.9	889.4	848.7	831.0	816.1	814.7	810.7	809.3	810.7	810.7	798.4
7.5°	958.7	919.3	875.8	856.8	839.2	840.5	831.0	831.0	829.7	822.9	820.2
10°	1026.6	973.6	917.9	884.0	862.3	858.2	848.7	839.2	839.2	839.2	825.6
12.5°	1101.2	1034.7	958.7	919.3	893.5	873.1	858.2	855.5	840.5	837.8	831.0
15°	1166.4	1082.2	985.8	931.5	898.9	871.8	848.7	833.7	827.0	822.9	817.4
17.5°	1230.2	1123.0	1000.8	931.5	896.2	865.0	840.5	827.0	810.7	813.4	802.5
20°	1315.8	1166.4	1004.8	913.9	870.4	840.5	807.9	801.2	791.6	783.5	786.2
22.5°	1398.6	1197.7	992.6	892.1	829.7	794.4	778.1	769.9	765.8	759.1	749.6
25°	1473.3	1231.6	973.6	852.8	786.2	760.4	745.5	744.1	734.6	734.6	717.0
27.5°	1549.4	1243.8	941.0	806.6	748.2	733.3	726.5	723.8	719.7	710.2	698.0
30°	1636.3	1247.9	893.5	759.1	714.2	698.0	707.5	714.2	696.6	678.9	684.4
32.5°	1708.2	1238.4	836.5	714.2	689.8	681.7	700.7	707.5	687.1	668.1	658.6
35°	1795.1	1215.3	780.8	678.9	665.4	681.7	698.0	698.0	657.2	634.1	628.7
37.5°	1926.8	1189.5	729.2	649.1	639.6	673.5	695.2	680.3	616.5	588.0	581.2
40°	2068.1	1173.2	678.9	619.2	626.0	659.9	672.2	626.0	560.8	543.2	537.7
42.5°	2273.1	1140.6	634.1	593.4	613.8	640.9	640.9	558.1	533.7	524.1	522.8
45°	2528.4	1117.5	594.8	571.7	596.1	602.9	581.2	522.8	505.1	502.4	503.8
47.5°	2653.3	1072.7	554.0	545.9	563.5	564.9	507.9	494.3	479.3	475.3	472.5
50°	2634.3	992.6	501.1	511.9	536.4	522.8	463.0	465.8	452.2	450.8	444.0
52.5°	2501.2	866.3	448.1	473.9	501.1	461.7	426.4	423.7	423.7	406.0	399.2
55°	2217.4	698.0	384.3	416.9	449.5	388.4	378.9	376.1	369.3	353.1	349.0
57.5°	1755.7	511.9	289.2	324.5	381.6	330.0	328.6	316.4	298.7	286.5	286.5
60°	1044.2	294.7	182.0	198.3	252.6	267.5	297.4	291.9	262.1	243.1	237.6
62.5°	476.6	152.1	115.4	118.1	135.8	173.8	233.6	270.2	228.1	195.5	192.8
65°	160.2	112.7	95.1	91.0	93.7	104.6	139.9	191.5	182.0	150.7	145.3
67.5°	97.8	100.5	89.6	82.8	82.8	81.5	80.1	86.9	107.3	104.6	105.9
70°	84.2	92.3	82.8	74.7	72.0	67.9	57.0	47.5	40.7	47.5	50.2
72.5°	67.9	73.3	70.6	63.8	57.0	51.6	40.7	31.2	23.1	20.4	20.4
75°	50.2	54.3	57.0	48.9	43.5	36.7	29.9	20.4	12.2	8.1	8.1
77.5°	36.7	40.7	42.1	38.0	32.6	25.8	19.0	13.6	6.8	2.7	2.7
80°	31.2	36.7	40.7	38.0	33.9	24.4	17.7	9.5	5.4	1.4	1.4
82.5°	29.9	36.7	40.7	36.7	32.6	23.1	17.7	10.9	4.1	1.4	1.4
85°	6.8	9.5	12.2	14.9	17.7	17.7	13.6	8.1	4.1	1.4	1.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.4	1.4	0.0
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)