

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: P528322

Luminaire Tested: **GALN-SA3B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
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-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10646 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

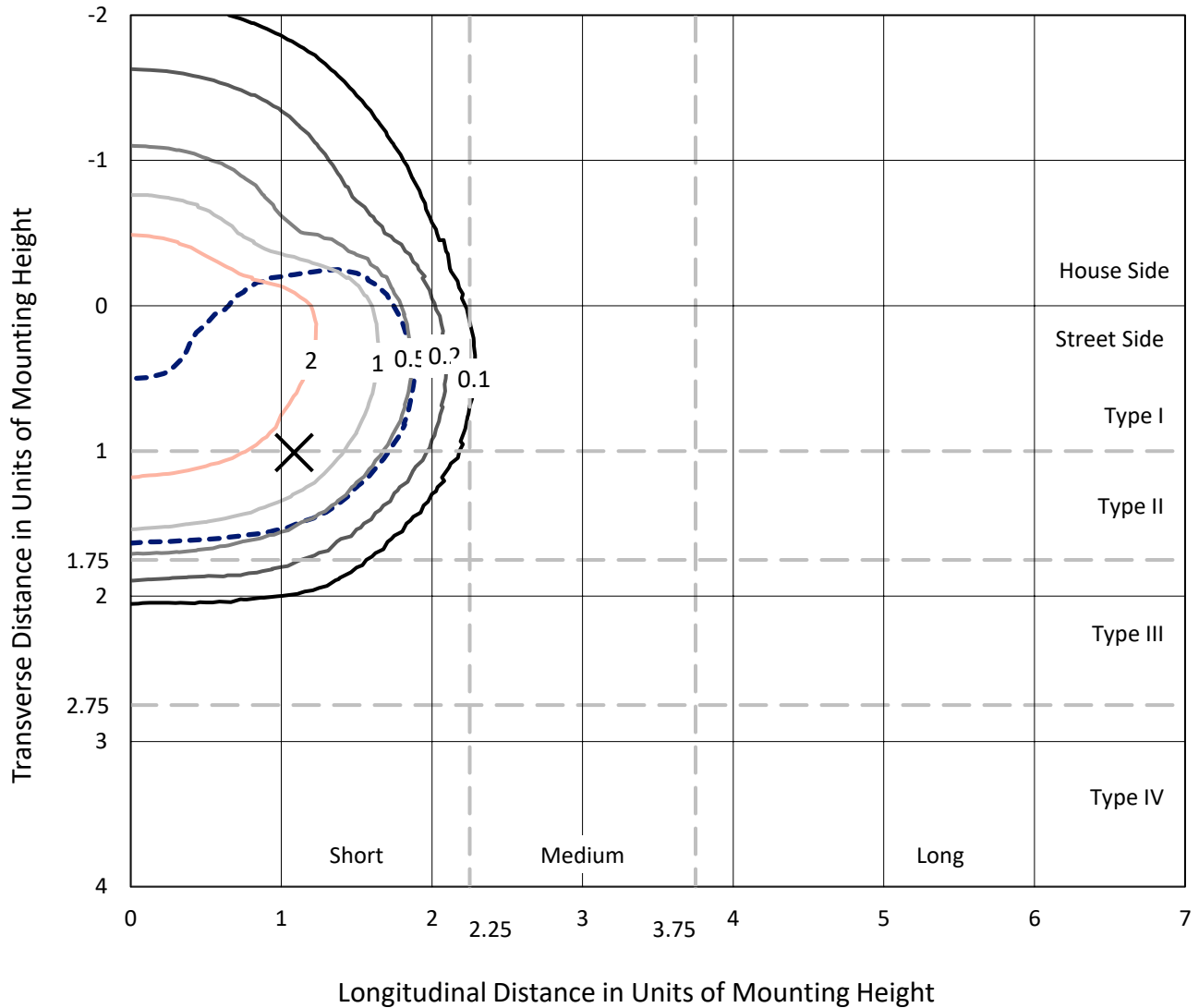
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528322  
 CATALOG NUMBER: GALN-SA3B-827-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

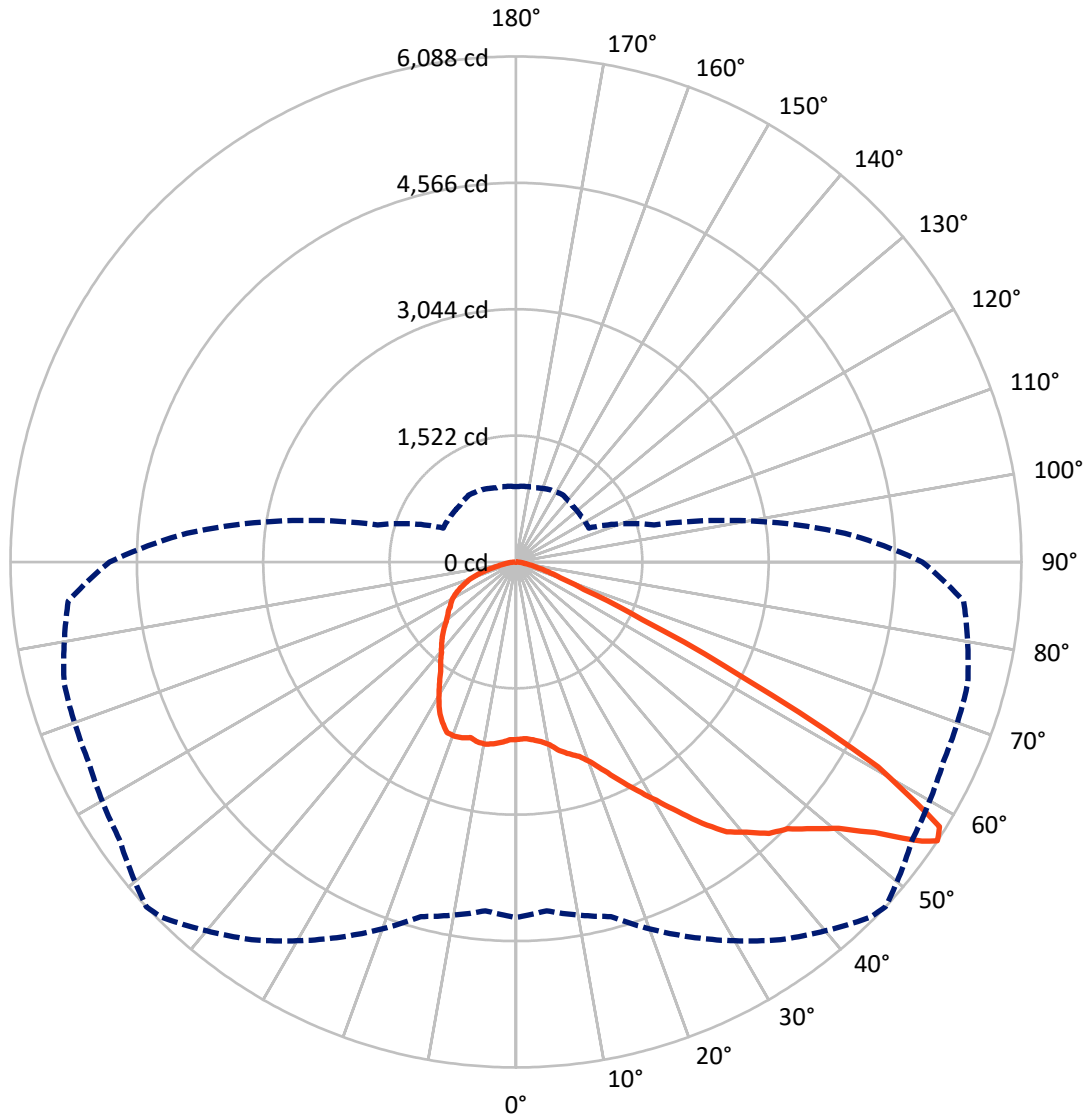
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P528322  
CATALOG NUMBER: GALN-SA3B-827-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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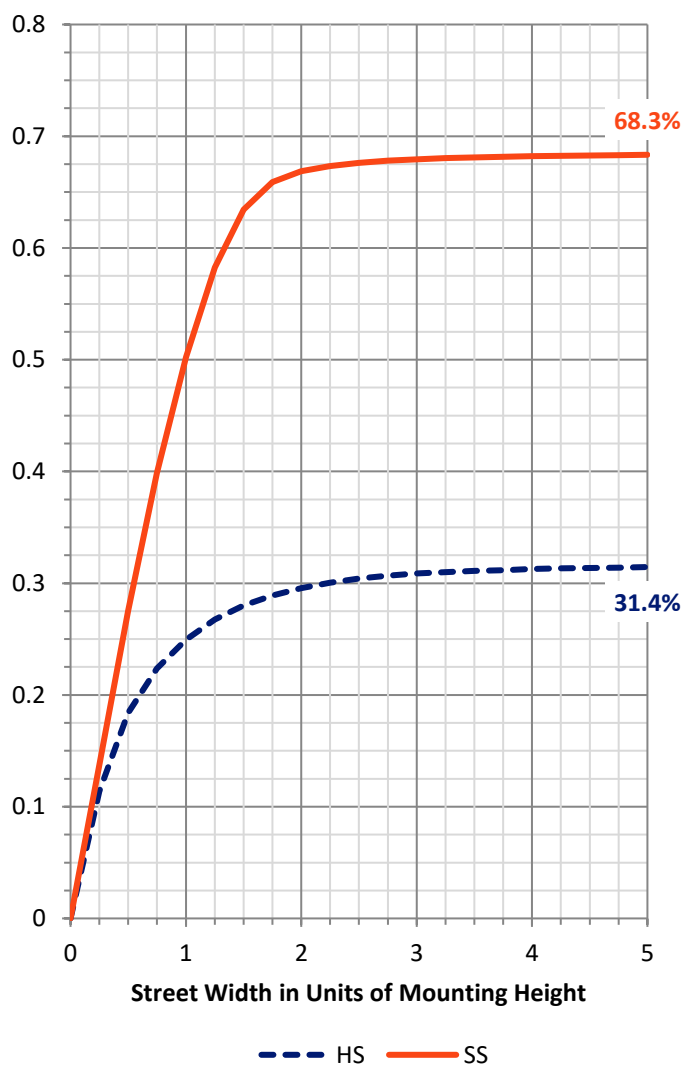
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3373.6	0.0	3373.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	7272.4	0.0	7272.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	10646.0	0.0	10646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	2.0
10°-20°	657.3	6.2
20°-30°	1161.9	10.9
30°-40°	1745.2	16.4
40°-50°	2395.1	22.5
50°-60°	2853.4	26.8
60°-70°	1221.1	11.5
70°-80°	345.6	3.2
80°-90°	58.2	0.5
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°	10646.0	100.0
0°-180°	10646.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528322

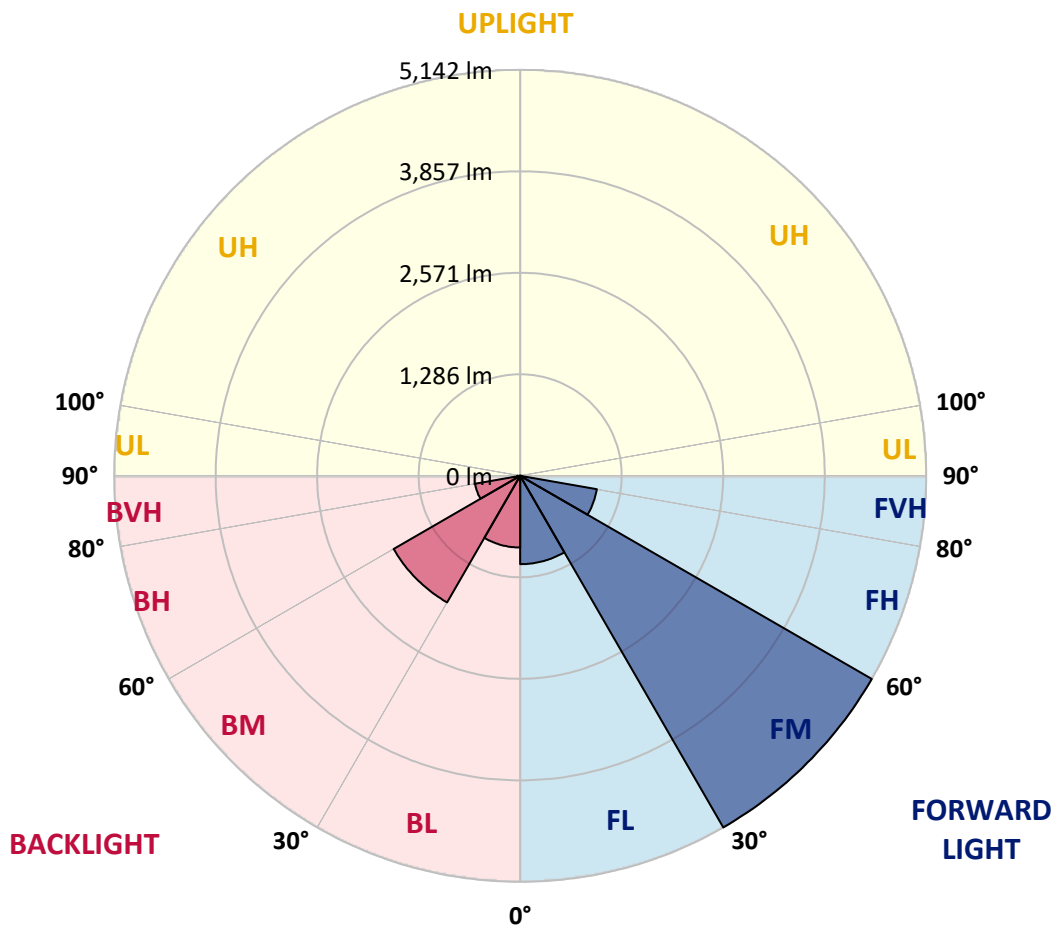
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.3	10.5			
FM (30°-60°)	5142.3	48.3			
FH (60°-80°)	986.2	9.3			G1/1800
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	908.3	8.5	B2/1000		
BM (30°-60°)	1851.4	17.4	B2/2500		
BH (60°-80°)	580.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P528322

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2130.3	2126.2	2123.5	2145.2	2137.1	2138.5	2130.3	2138.5	2143.9	2131.7	2149.3
5°	2126.2	2138.5	2127.6	2134.4	2152.0	2146.6	2152.0	2168.3	2164.3	2160.2	2154.8
7.5°	2164.3	2165.6	2173.8	2176.5	2181.9	2176.5	2184.6	2199.6	2195.5	2172.4	2175.1
10°	2218.6	2221.3	2222.6	2237.6	2247.1	2248.4	2238.9	2225.4	2224.0	2255.2	2233.5
12.5°	2281.0	2274.2	2290.5	2296.0	2306.8	2319.0	2331.3	2302.7	2320.4	2321.8	2296.0
15°	2372.0	2378.8	2359.8	2359.8	2363.8	2365.2	2399.1	2385.6	2382.9	2367.9	2378.8
17.5°	2507.8	2461.6	2460.2	2441.2	2438.5	2449.4	2461.6	2472.5	2509.1	2479.3	2420.9
20°	2606.9	2617.7	2578.4	2555.3	2559.4	2583.8	2571.6	2620.5	2646.3	2597.4	2540.4
22.5°	2782.0	2745.4	2754.9	2703.3	2707.4	2733.2	2731.8	2782.0	2797.0	2719.6	2636.8
25°	2900.2	2890.7	2898.8	2858.1	2863.5	2883.9	2916.4	2999.3	2974.8	2889.3	2697.9
27.5°	3072.6	3053.6	3046.8	3031.9	3026.4	3080.7	3118.8	3207.0	3189.4	3064.4	2806.5
30°	3249.1	3236.9	3243.7	3182.6	3204.3	3319.7	3330.6	3451.4	3443.3	3223.3	2927.3
32.5°	3371.3	3378.1	3390.3	3356.4	3452.8	3545.1	3581.7	3718.9	3725.7	3496.2	3160.8
35°	3568.2	3545.1	3551.9	3591.3	3636.1	3804.4	3864.2	3955.1	4012.2	3782.7	3384.9
37.5°	3691.7	3716.2	3687.7	3750.1	3866.9	4069.2	4123.5	4217.2	4276.9	4065.1	3690.4
40°	3884.5	3845.2	3865.5	3910.3	4029.8	4293.2	4278.3	4374.7	4393.7	4305.4	3975.5
42.5°	4092.3	4073.3	4044.7	4146.6	4247.0	4438.5	4468.4	4423.6	4520.0	4540.3	4382.8
45°	4340.7	4363.8	4367.9	4370.6	4458.9	4625.9	4585.1	4545.8	4657.1	4805.1	4635.4
47.5°	4571.5	4498.2	4551.2	4624.5	4749.4	4750.8	4798.3	4704.6	4822.7	4954.4	4863.5
50°	4648.9	4613.6	4684.2	4822.7	5015.5	5035.9	5041.3	4908.3	4969.4	5073.9	4942.2
52.5°	4619.1	4606.8	4787.4	5002.0	5284.4	5387.6	5414.7	5250.4	5284.4	5236.8	5116.0
55°	4476.5	4513.2	4695.1	5132.3	5565.4	5884.5	5936.1	5728.4	5512.5	5549.1	5416.1
56°	4281.0	4217.2	4420.8	4984.3	5553.2	6046.1	6088.2	5828.8	5682.2	5634.7	5413.4
57.5°	3632.0	3549.2	3816.6	4484.7	5245.0	5985.0	6016.2	5870.9	5653.7	5557.3	5018.2
60°	2126.2	2167.0	2506.4	3093.0	4046.1	4906.9	5011.5	5117.4	4972.1	4540.3	3735.2
62.5°	1026.5	1000.7	1243.7	1773.2	2465.7	3132.3	3101.1	3398.5	3561.4	3226.0	2358.4
65°	537.7	535.0	678.9	968.1	1355.0	1645.6	1674.1	1834.3	2058.4	1661.9	1197.5
67.5°	395.1	406.0	477.9	680.2	871.7	889.3	885.3	965.4	987.1	835.0	735.9
70°	309.6	315.0	368.0	517.3	649.0	581.1	568.9	578.4	642.2	669.4	636.8
72.5°	224.0	229.5	274.3	348.9	406.0	396.5	404.6	457.6	536.3	564.8	530.9
75°	149.4	153.4	177.9	213.2	240.3	259.3	274.3	335.4	408.7	425.0	408.7
77.5°	103.2	107.3	123.6	150.7	153.4	165.6	171.1	199.6	244.4	264.8	253.9
80°	58.4	58.4	66.5	77.4	95.0	111.3	114.1	137.1	157.5	171.1	173.8
82.5°	27.2	28.5	35.3	47.5	62.5	77.4	80.1	95.0	110.0	123.6	127.6
85°	13.6	14.9	20.4	28.5	38.0	46.2	44.8	46.2	48.9	46.2	47.5
87.5°	4.1	4.1	5.4	6.8	5.4	6.8	6.8	8.1	9.5	10.9	12.2
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: P528322

CATALOG NUMBER: GALN-SA3B-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2150.7	2154.8	2127.6	2153.4	2143.9	2142.5	2161.5	2158.8	2165.6	2162.9	2146.6
5°	2152.0	2142.5	2171.0	2145.2	2157.5	2183.3	2165.6	2206.3	2186.0	2199.6	2169.7
7.5°	2194.1	2196.8	2191.4	2202.3	2196.8	2209.1	2199.6	2209.1	2192.8	2194.1	2221.3
10°	2230.8	2222.6	2232.1	2218.6	2228.1	2224.0	2202.3	2195.5	2200.9	2194.1	2211.8
12.5°	2298.7	2283.7	2276.9	2260.7	2249.8	2209.1	2175.1	2156.1	2181.9	2186.0	2177.8
15°	2367.9	2369.3	2338.0	2301.4	2233.5	2172.4	2180.5	2187.3	2187.3	2198.2	2177.8
17.5°	2411.4	2411.4	2382.9	2309.5	2240.3	2205.0	2196.8	2175.1	2156.1	2153.4	2152.0
20°	2487.4	2464.3	2399.1	2308.2	2237.6	2221.3	2160.2	2108.6	2069.2	2055.6	2054.3
22.5°	2574.3	2515.9	2424.9	2310.9	2233.5	2210.4	2096.4	2019.0	1948.4	1918.5	1922.6
25°	2654.4	2560.7	2439.9	2298.7	2218.6	2107.2	1979.6	1872.3	1799.0	1774.6	1762.4
27.5°	2710.1	2608.2	2439.9	2309.5	2162.9	1991.8	1861.5	1724.3	1660.5	1644.2	1647.0
30°	2784.7	2668.0	2482.0	2286.5	2051.6	1842.5	1686.3	1596.7	1558.7	1545.1	1554.6
32.5°	2959.9	2824.1	2540.4	2230.8	1919.9	1693.1	1566.8	1516.6	1460.9	1433.8	1424.3
35°	3150.0	2972.1	2597.4	2137.1	1771.9	1557.3	1478.6	1432.4	1365.9	1336.0	1341.5
37.5°	3418.8	3162.2	2601.5	1982.3	1611.7	1481.3	1409.3	1337.4	1283.1	1236.9	1223.3
40°	3781.3	3421.5	2591.9	1819.4	1482.7	1391.7	1338.7	1249.1	1188.0	1155.4	1162.2
42.5°	4100.4	3725.7	2552.6	1634.7	1365.9	1330.6	1270.9	1182.6	1122.9	1088.9	1086.2
45°	4369.2	3949.7	2477.9	1477.2	1268.1	1262.7	1193.5	1125.6	1078.1	1046.8	1060.4
47.5°	4617.7	4130.3	2365.2	1319.7	1178.5	1189.4	1122.9	1080.8	1050.9	1022.4	1021.0
50°	4707.3	4127.6	2266.1	1189.4	1106.6	1101.1	1098.4	1053.6	1022.4	997.9	1008.8
52.5°	4856.7	4173.7	2158.8	1099.8	1041.4	1042.8	1052.3	1019.7	984.4	969.4	983.0
55°	5071.2	4180.5	1922.6	995.2	987.1	996.6	996.6	974.9	945.0	932.8	926.0
56°	4896.1	3978.2	1724.3	968.1	959.9	959.9	985.7	961.3	924.6	915.1	907.0
57.5°	4515.9	3485.3	1443.3	935.5	923.3	942.3	955.9	930.1	896.1	882.5	890.7
60°	3114.7	2358.4	1084.8	864.9	864.9	896.1	907.0	869.0	854.0	852.7	841.8
62.5°	1818.0	1374.0	848.6	801.1	803.8	829.6	837.7	816.0	797.0	820.1	830.9
65°	964.0	820.1	727.8	733.2	734.5	754.9	790.2	788.9	787.5	794.3	795.6
67.5°	697.9	681.6	661.2	655.8	658.5	673.4	708.7	735.9	734.5	718.3	706.0
70°	621.8	598.8	586.5	587.9	577.0	594.7	623.2	640.9	609.6	590.6	582.5
72.5°	517.3	510.5	502.4	503.7	482.0	477.9	445.3	445.3	437.2	431.8	441.3
75°	395.1	392.4	396.5	389.7	366.6	342.2	323.1	305.5	278.3	267.5	262.0
77.5°	249.8	258.0	267.5	252.5	243.0	225.4	206.4	188.7	167.0	154.8	154.8
80°	169.7	176.5	183.3	180.6	169.7	153.4	138.5	119.5	104.5	95.0	93.7
82.5°	129.0	134.4	143.9	133.1	122.2	108.6	96.4	82.8	69.2	58.4	58.4
85°	46.2	53.0	58.4	63.8	67.9	69.2	59.7	48.9	39.4	31.2	29.9
87.5°	12.2	13.6	14.9	13.6	13.6	13.6	14.9	13.6	12.2	9.5	9.5
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)