

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: P529024

Luminaire Tested: **GALN-SA4A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529024  
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-SA4A-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA 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: 11338 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

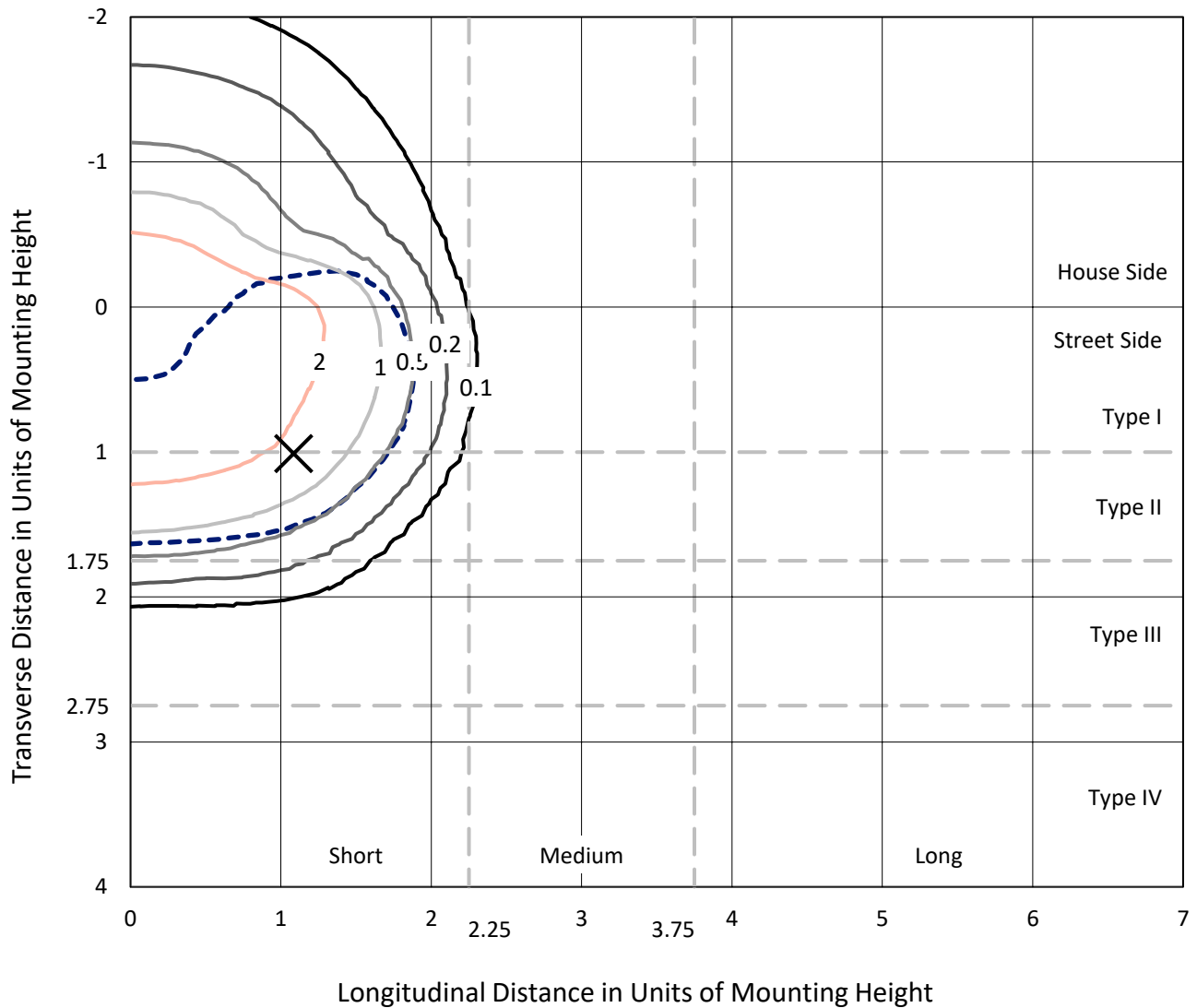
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529024  
 CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

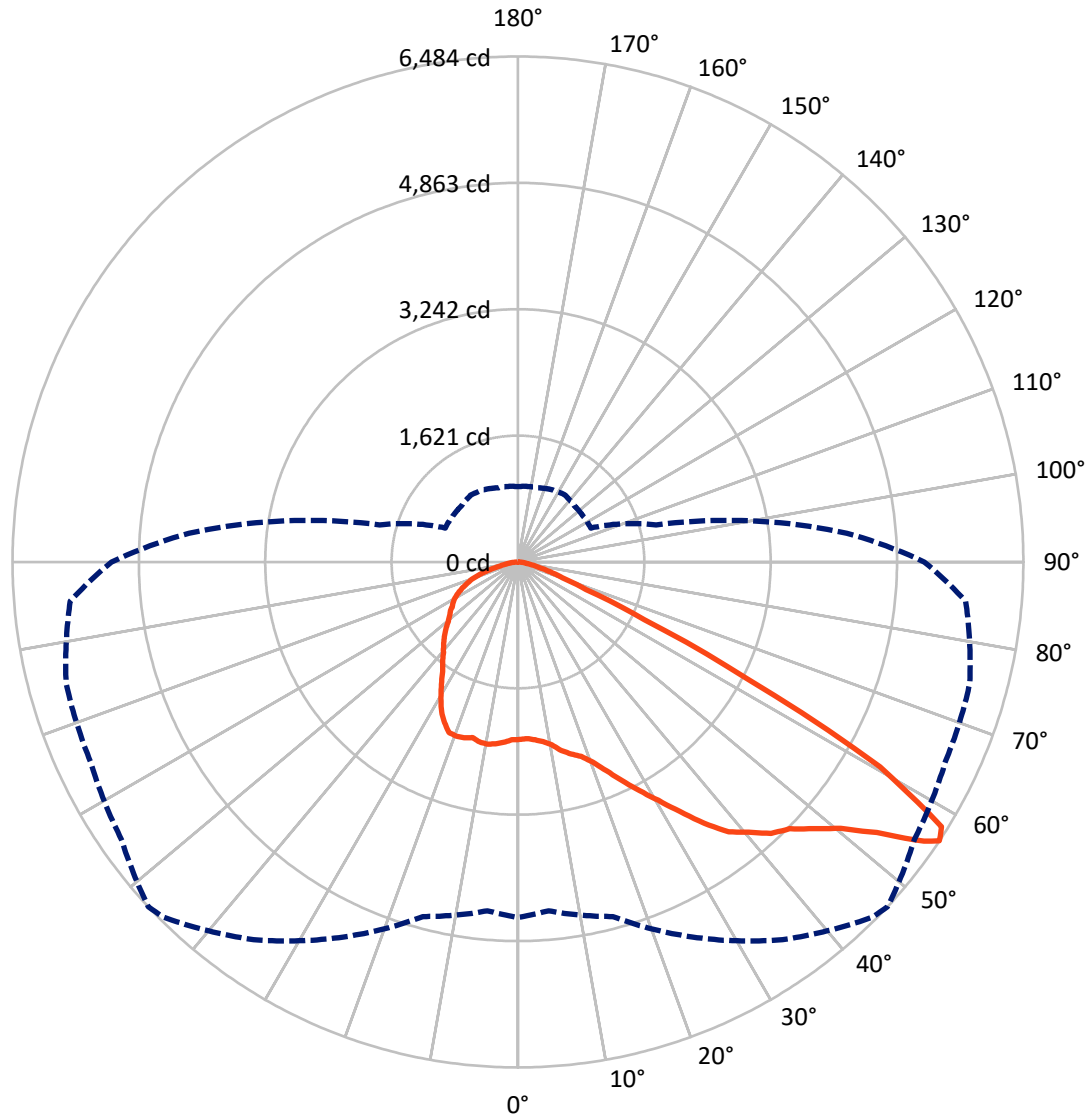
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P529024  
CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P529024  
 CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3592.9	0.0	3592.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	7745.1	0.0	7745.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	11338.0	0.0	11338.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.9	2.0
10°-20°	700.0	6.2
20°-30°	1237.4	10.9
30°-40°	1858.6	16.4
40°-50°	2550.7	22.5
50°-60°	3038.9	26.8
60°-70°	1300.5	11.5
70°-80°	368.0	3.2
80°-90°	61.9	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°	11338.0	100.0
0°-180°	11338.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529024

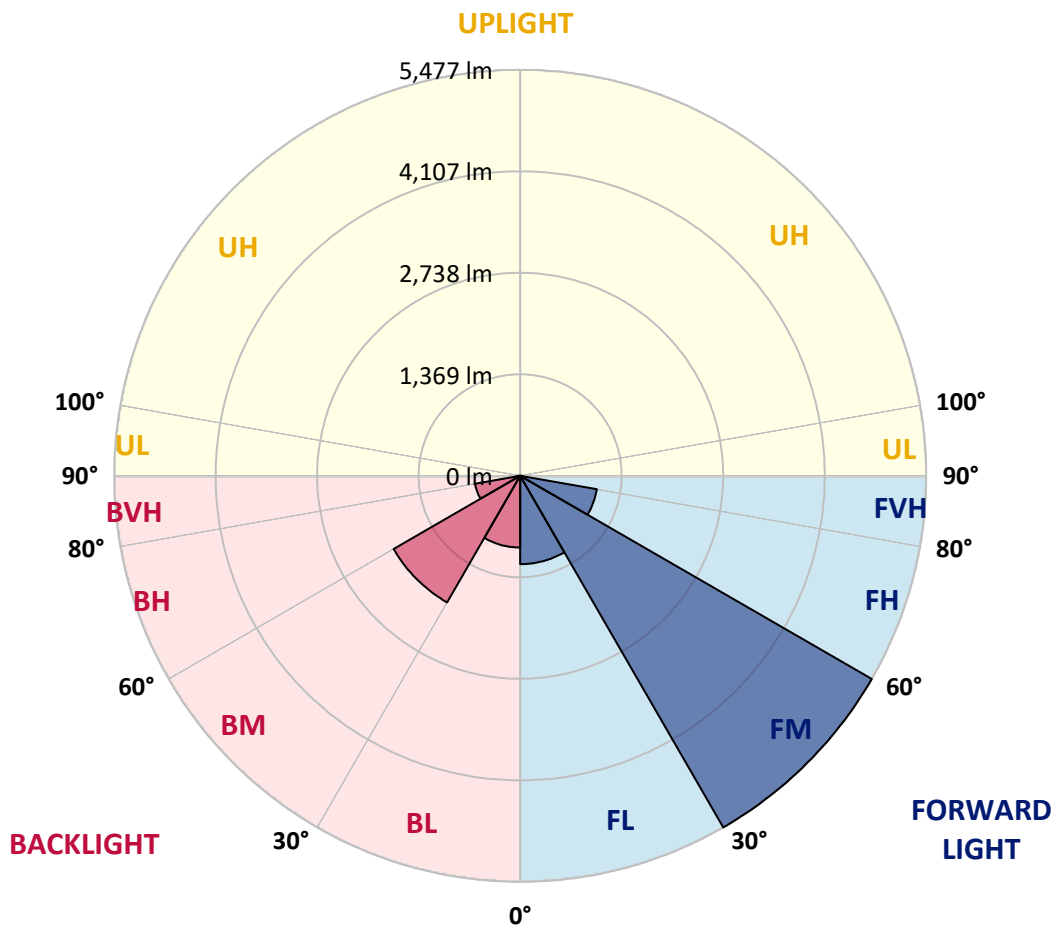
CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.0	10.5			
FM (30°-60°)	5476.5	48.3			
FH (60°-80°)	1050.3	9.3			G1/1800
FVH (80°-90°)	26.3	0.2			G1/100
BL (0°-30°)	967.4	8.5	B2/1000		
BM (30°-60°)	1971.7	17.4	B2/2500		
BH (60°-80°)	618.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	35.6	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: P529024

CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5
2.5°	2268.8	2264.4	2261.6	2284.7	2276.0	2277.5	2268.8	2277.5	2283.2	2270.2	2289.0
5°	2264.4	2277.5	2265.9	2273.1	2291.9	2286.1	2291.9	2309.3	2304.9	2300.6	2294.8
7.5°	2304.9	2306.4	2315.1	2317.9	2323.7	2317.9	2326.6	2342.5	2338.2	2313.6	2316.5
10°	2362.8	2365.7	2367.1	2383.0	2393.1	2394.6	2384.5	2370.0	2368.6	2401.8	2378.7
12.5°	2429.3	2422.1	2439.4	2445.2	2456.8	2469.8	2482.8	2452.4	2471.2	2472.7	2445.2
15°	2526.2	2533.4	2513.2	2513.2	2517.5	2518.9	2555.1	2540.6	2537.7	2521.8	2533.4
17.5°	2670.8	2621.6	2620.2	2599.9	2597.0	2608.6	2621.6	2633.2	2672.2	2640.4	2578.2
20°	2776.3	2787.9	2746.0	2721.4	2725.7	2751.7	2738.7	2790.8	2818.3	2766.2	2705.5
22.5°	2962.9	2923.8	2933.9	2879.0	2883.3	2910.8	2909.4	2962.9	2978.8	2896.4	2808.1
25°	3088.7	3078.5	3087.2	3043.8	3049.6	3071.3	3106.0	3194.2	3168.2	3077.1	2873.2
27.5°	3272.3	3252.1	3244.8	3228.9	3223.1	3281.0	3321.5	3415.5	3396.7	3263.6	2988.9
30°	3460.3	3447.3	3454.5	3389.4	3412.6	3535.5	3547.1	3675.7	3667.1	3432.8	3117.6
32.5°	3590.4	3597.7	3610.7	3574.5	3677.2	3775.5	3814.6	3960.6	3967.8	3723.5	3366.3
35°	3800.1	3775.5	3782.8	3824.7	3872.4	4051.7	4115.3	4212.2	4272.9	4028.6	3604.9
37.5°	3931.7	3957.7	3927.4	3993.9	4118.2	4333.7	4391.5	4491.3	4554.9	4329.3	3930.2
40°	4137.0	4095.1	4116.8	4164.5	4291.7	4572.3	4556.4	4659.0	4679.3	4585.3	4233.9
42.5°	4358.3	4338.0	4307.7	4416.1	4523.1	4727.0	4758.8	4711.1	4813.8	4835.4	4667.7
45°	4622.9	4647.5	4651.8	4654.7	4748.7	4926.5	4883.2	4841.2	4959.8	5117.4	4936.7
47.5°	4868.7	4790.6	4847.0	4925.1	5058.1	5059.6	5110.2	5010.4	5136.2	5276.5	5179.6
50°	4951.1	4913.5	4988.7	5136.2	5341.5	5363.2	5369.0	5227.3	5292.4	5403.7	5263.5
52.5°	4919.3	4906.3	5098.6	5327.1	5627.9	5737.8	5766.7	5591.7	5627.9	5577.2	5448.6
55°	4767.5	4806.5	5000.3	5465.9	5927.2	6267.0	6321.9	6100.7	5870.8	5909.8	5768.1
56°	4559.3	4491.3	4708.2	5308.3	5914.2	6439.1	6483.9	6207.7	6051.5	6000.9	5765.2
57.5°	3868.1	3779.9	4064.7	4776.2	5585.9	6374.0	6407.3	6252.5	6021.2	5918.5	5344.4
60°	2264.4	2307.8	2669.3	3294.0	4309.1	5225.9	5337.2	5450.0	5295.3	4835.4	3978.0
62.5°	1093.2	1065.7	1324.5	1888.5	2625.9	3335.9	3302.7	3619.4	3792.9	3435.7	2511.7
65°	572.6	569.7	723.0	1031.0	1443.1	1752.6	1782.9	1953.6	2192.1	1769.9	1275.4
67.5°	420.8	432.4	509.0	724.4	928.3	947.1	942.8	1028.1	1051.2	889.3	783.7
70°	329.7	335.5	391.9	550.9	691.2	618.9	605.9	616.0	684.0	712.9	678.2
72.5°	238.6	244.4	292.1	371.6	432.4	422.2	430.9	487.3	571.2	601.5	565.4
75°	159.1	163.4	189.4	227.0	255.9	276.2	292.1	357.2	435.2	452.6	435.2
77.5°	109.9	114.2	131.6	160.5	163.4	176.4	182.2	212.6	260.3	282.0	270.4
80°	62.2	62.2	70.9	82.4	101.2	118.6	121.5	146.0	167.7	182.2	185.1
82.5°	28.9	30.4	37.6	50.6	66.5	82.4	85.3	101.2	117.1	131.6	135.9
85°	14.5	15.9	21.7	30.4	40.5	49.2	47.7	49.2	52.1	49.2	50.6
87.5°	4.3	4.3	5.8	7.2	5.8	7.2	7.2	8.7	10.1	11.6	13.0
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: P529024  
 CATALOG NUMBER: GALN-SA4A-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5	2277.5
2.5°	2290.5	2294.8	2265.9	2293.4	2283.2	2281.8	2302.0	2299.1	2306.4	2303.5	2286.1
5°	2291.9	2281.8	2312.2	2284.7	2297.7	2325.2	2306.4	2349.8	2328.1	2342.5	2310.7
7.5°	2336.7	2339.6	2333.9	2345.4	2339.6	2352.7	2342.5	2352.7	2335.3	2336.7	2365.7
10°	2375.8	2367.1	2377.2	2362.8	2372.9	2368.6	2345.4	2338.2	2344.0	2336.7	2355.5
12.5°	2448.1	2432.2	2425.0	2407.6	2396.0	2352.7	2316.5	2296.3	2323.7	2328.1	2319.4
15°	2521.8	2523.3	2490.0	2451.0	2378.7	2313.6	2322.3	2329.5	2329.5	2341.1	2319.4
17.5°	2568.1	2568.1	2537.7	2459.7	2385.9	2348.3	2339.6	2316.5	2296.3	2293.4	2291.9
20°	2649.1	2624.5	2555.1	2458.2	2383.0	2365.7	2300.6	2245.6	2203.7	2189.3	2187.8
22.5°	2741.6	2679.4	2582.6	2461.1	2378.7	2354.1	2232.6	2150.2	2075.0	2043.2	2047.5
25°	2826.9	2727.2	2598.5	2448.1	2362.8	2244.2	2108.3	1994.0	1916.0	1889.9	1876.9
27.5°	2886.2	2777.8	2598.5	2459.7	2303.5	2121.3	1982.5	1836.4	1768.5	1751.1	1754.0
30°	2965.8	2841.4	2643.3	2435.1	2184.9	1962.2	1795.9	1700.5	1660.0	1645.6	1655.7
32.5°	3152.3	3007.7	2705.5	2375.8	2044.7	1803.2	1668.7	1615.2	1555.9	1527.0	1516.9
35°	3354.7	3165.3	2766.2	2276.0	1887.0	1658.6	1574.7	1525.5	1454.7	1422.9	1428.7
37.5°	3641.0	3367.7	2770.5	2111.2	1716.4	1577.6	1501.0	1424.3	1366.5	1317.3	1302.9
40°	4027.1	3643.9	2760.4	1937.6	1579.0	1482.2	1425.8	1330.3	1265.3	1230.6	1237.8
42.5°	4366.9	3967.8	2718.5	1741.0	1454.7	1417.1	1353.5	1259.5	1195.8	1159.7	1156.8
45°	4653.2	4206.4	2639.0	1573.3	1350.6	1344.8	1271.0	1198.7	1148.1	1114.9	1129.3
47.5°	4917.9	4398.8	2518.9	1405.5	1255.1	1266.7	1195.8	1151.0	1119.2	1088.8	1087.4
50°	5013.3	4395.9	2413.4	1266.7	1178.5	1172.7	1169.8	1122.1	1088.8	1062.8	1074.4
52.5°	5172.4	4445.0	2299.1	1171.3	1109.1	1110.5	1120.7	1086.0	1048.4	1032.4	1046.9
55°	5400.8	4452.3	2047.5	1059.9	1051.2	1061.4	1061.4	1038.2	1006.4	993.4	986.2
56°	5214.3	4236.8	1836.4	1031.0	1022.3	1022.3	1049.8	1023.8	984.7	974.6	965.9
57.5°	4809.4	3711.9	1537.1	996.3	983.3	1003.5	1018.0	990.5	954.4	939.9	948.6
60°	3317.1	2511.7	1155.4	921.1	921.1	954.4	965.9	925.4	909.5	908.1	896.5
62.5°	1936.2	1463.4	903.8	853.1	856.0	883.5	892.2	869.0	848.8	873.4	885.0
65°	1026.7	873.4	775.1	780.8	782.3	804.0	841.6	840.1	838.7	845.9	847.4
67.5°	743.2	725.9	704.2	698.4	701.3	717.2	754.8	783.7	782.3	764.9	751.9
70°	662.3	637.7	624.7	626.1	614.6	633.4	663.7	682.5	649.3	629.0	620.3
72.5°	550.9	543.7	535.0	536.5	513.3	509.0	474.3	474.3	465.6	459.8	470.0
75°	420.8	417.9	422.2	415.0	390.4	364.4	344.1	325.4	296.4	284.9	279.1
77.5°	266.1	274.7	284.9	269.0	258.8	240.0	219.8	201.0	177.9	164.8	164.8
80°	180.8	188.0	195.2	192.3	180.8	163.4	147.5	127.2	111.3	101.2	99.8
82.5°	137.4	143.2	153.3	141.7	130.1	115.7	102.7	88.2	73.7	62.2	62.2
85°	49.2	56.4	62.2	68.0	72.3	73.7	63.6	52.1	41.9	33.3	31.8
87.5°	13.0	14.5	15.9	14.5	14.5	14.5	15.9	14.5	13.0	10.1	10.1
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)