

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: P528010

Luminaire Tested: **GALN-SA3A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528010
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-SA3A-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 11639 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

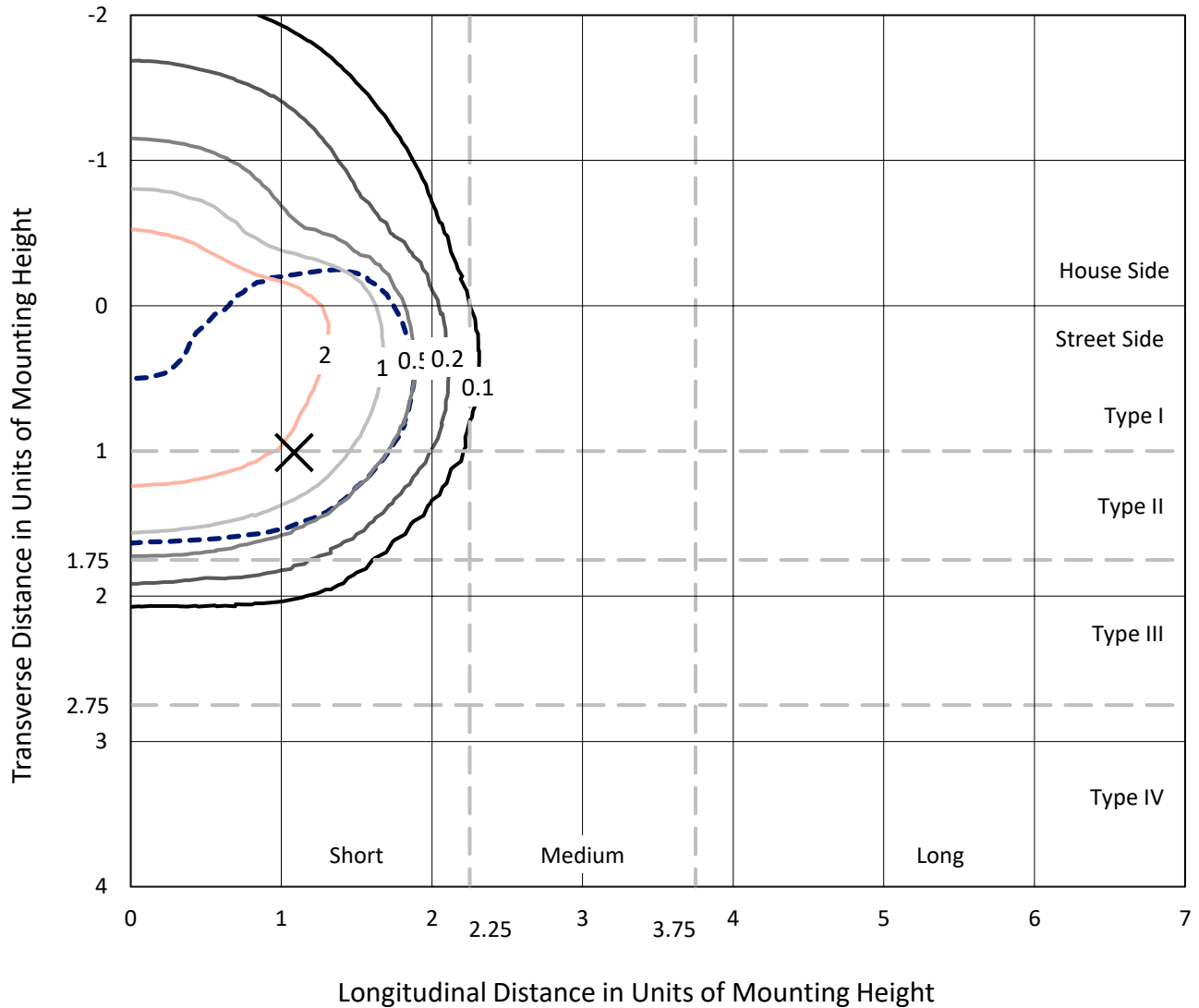
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

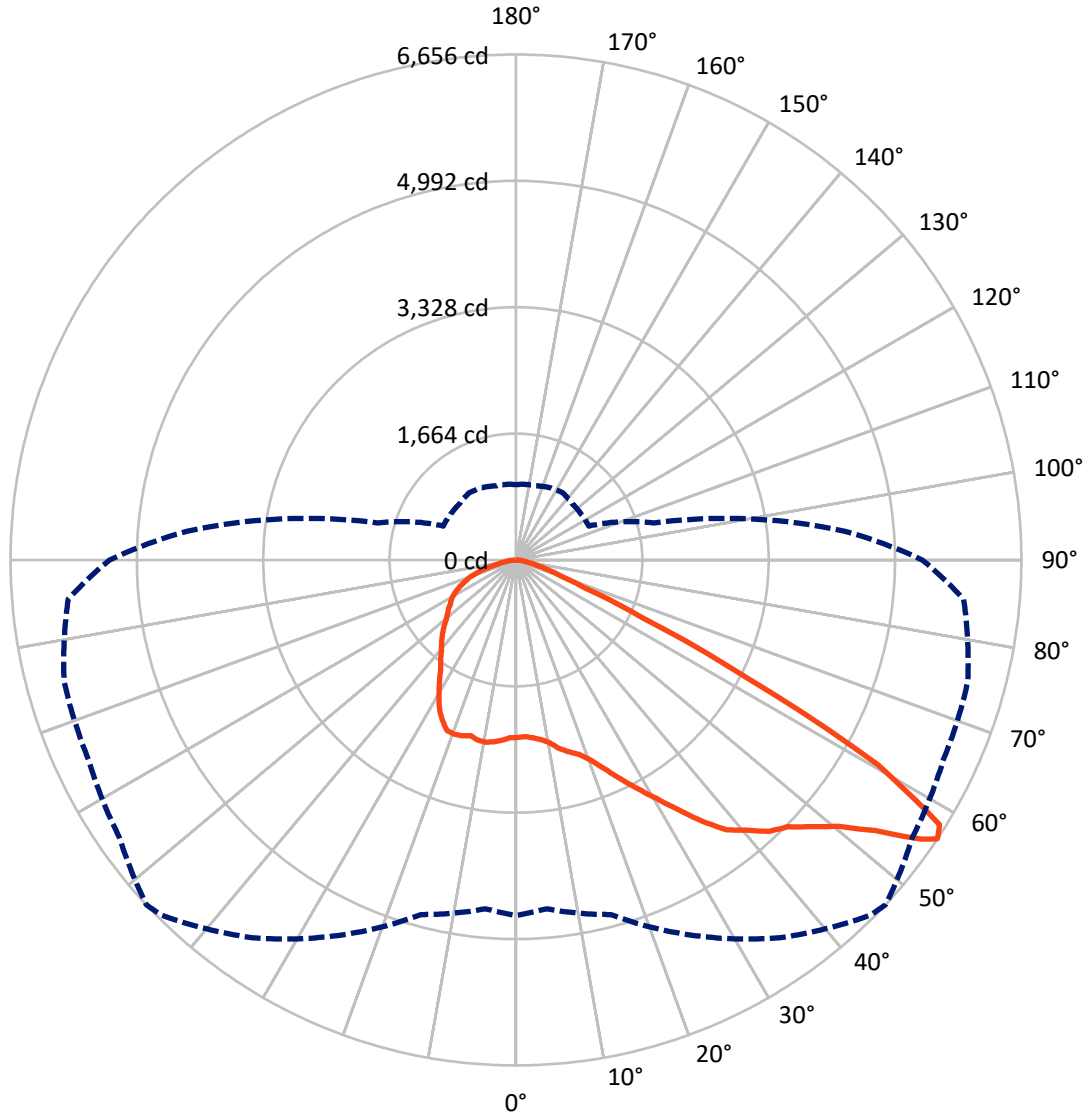
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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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
House Side	Lumens	3688.3	0.0	3688.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7950.7	0.0	7950.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	11639.0	0.0	11639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	2.0
10°-20°	718.6	6.2
20°-30°	1270.3	10.9
30°-40°	1907.9	16.4
40°-50°	2618.5	22.5
50°-60°	3119.6	26.8
60°-70°	1335.0	11.5
70°-80°	377.8	3.2
80°-90°	63.6	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°	11639.0	100.0
0°-180°	11639.0	100.0



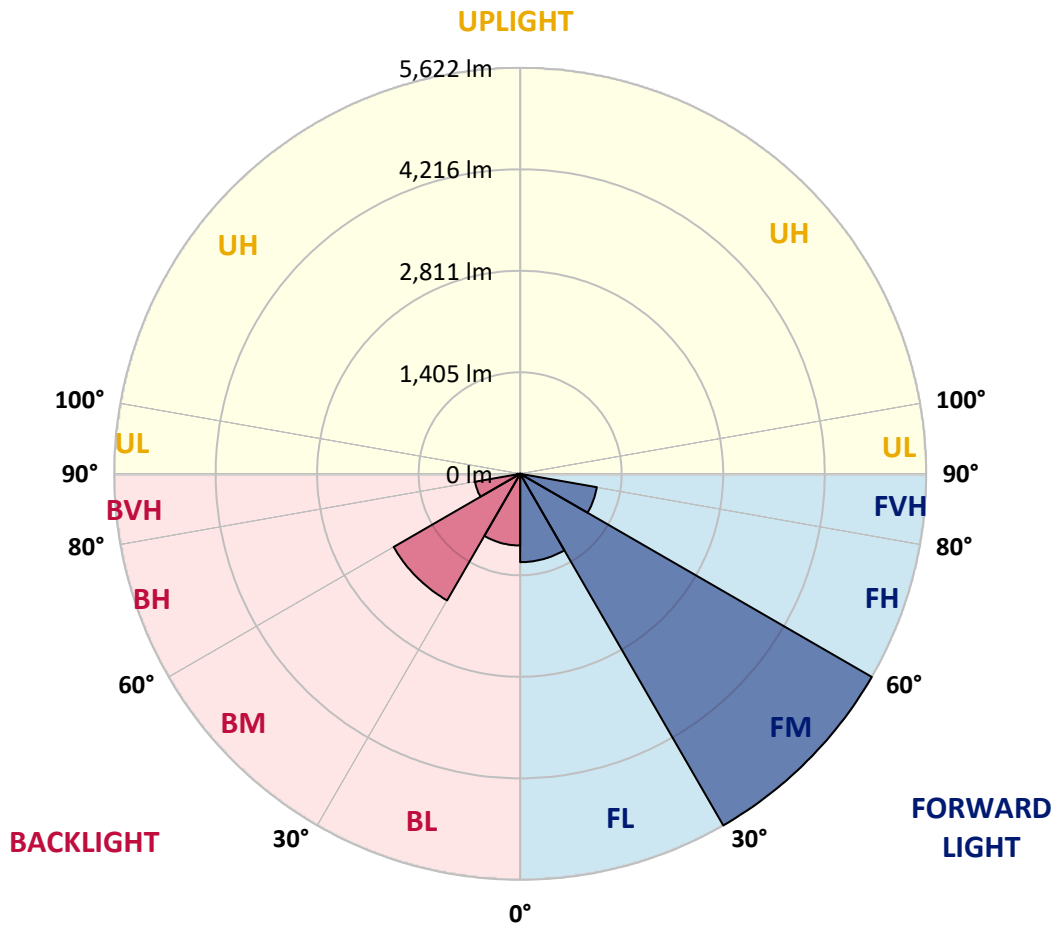
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.7	10.5			
FM (30°-60°)	5621.9	48.3			
FH (60°-80°)	1078.2	9.3			G1/1800
FVH (80°-90°)	27.0	0.2			G1/100
BL (0°-30°)	993.0	8.5	B2/1000		
BM (30°-60°)	2024.1	17.4	B2/2500		
BH (60°-80°)	634.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	36.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9
2.5°	2329.0	2324.6	2321.6	2345.3	2336.4	2337.9	2329.0	2337.9	2343.9	2330.5	2349.8
5°	2324.6	2337.9	2326.0	2333.5	2352.8	2346.8	2352.8	2370.6	2366.1	2361.7	2355.7
7.5°	2366.1	2367.6	2376.5	2379.5	2385.4	2379.5	2388.4	2404.7	2400.3	2375.0	2378.0
10°	2425.5	2428.5	2430.0	2446.3	2456.7	2458.2	2447.8	2432.9	2431.4	2465.6	2441.8
12.5°	2493.8	2486.4	2504.2	2510.1	2522.0	2535.3	2548.7	2517.5	2536.8	2538.3	2510.1
15°	2593.2	2600.7	2579.9	2579.9	2584.3	2585.8	2622.9	2608.1	2605.1	2588.8	2600.7
17.5°	2741.7	2691.2	2689.7	2668.9	2666.0	2677.8	2691.2	2703.1	2743.2	2710.5	2646.7
20°	2850.0	2861.9	2818.9	2793.6	2798.1	2824.8	2811.4	2864.9	2893.1	2839.6	2777.3
22.5°	3041.5	3001.4	3011.8	2955.4	2959.9	2988.1	2986.6	3041.5	3057.9	2973.2	2882.7
25°	3170.7	3160.3	3169.2	3124.7	3130.6	3152.9	3188.5	3279.0	3252.3	3158.8	2949.5
27.5°	3359.2	3338.4	3331.0	3314.7	3308.7	3368.1	3409.7	3506.1	3486.8	3350.3	3068.2
30°	3552.2	3538.8	3546.2	3479.4	3503.2	3629.3	3641.2	3773.3	3764.4	3524.0	3200.4
32.5°	3685.8	3693.2	3706.5	3669.4	3774.8	3875.8	3915.8	4065.8	4073.2	3822.3	3455.7
35°	3901.0	3875.8	3883.2	3926.2	3975.2	4159.3	4224.6	4324.0	4386.4	4135.5	3700.6
37.5°	4036.1	4062.8	4031.6	4099.9	4227.6	4448.7	4508.1	4610.5	4675.8	4444.3	4034.6
40°	4246.9	4203.8	4226.1	4275.1	4405.7	4693.7	4677.3	4782.7	4803.5	4707.0	4346.3
42.5°	4474.0	4453.2	4422.0	4533.3	4643.2	4852.5	4885.1	4836.2	4941.5	4963.8	4791.6
45°	4745.6	4770.8	4775.3	4778.3	4874.8	5057.3	5012.8	4969.8	5091.5	5253.3	5067.7
47.5°	4998.0	4917.8	4975.7	5055.8	5192.4	5193.9	5245.9	5143.4	5272.6	5416.6	5317.1
50°	5082.6	5044.0	5121.2	5272.6	5483.4	5505.6	5511.6	5366.1	5432.9	5547.2	5403.2
52.5°	5049.9	5036.6	5234.0	5468.5	5777.3	5890.1	5919.8	5740.2	5777.3	5725.3	5593.2
55°	4894.0	4934.1	5133.0	5611.0	6084.5	6433.4	6489.8	6262.7	6026.6	6066.7	5921.3
56°	4680.3	4610.5	4833.2	5449.2	6071.2	6610.0	6656.0	6372.5	6212.2	6160.2	5918.3
57.5°	3970.8	3880.2	4172.6	4903.0	5734.2	6543.2	6577.4	6418.5	6181.0	6075.6	5486.3
60°	2324.6	2369.1	2740.2	3381.5	4423.5	5364.6	5478.9	5594.7	5435.9	4963.8	4083.6
62.5°	1122.2	1094.0	1359.7	1938.6	2695.7	3424.5	3390.4	3715.4	3893.6	3526.9	2578.4
65°	587.8	584.9	742.2	1058.4	1481.4	1799.1	1830.3	2005.4	2250.3	1816.9	1309.2
67.5°	432.0	443.8	522.5	743.7	953.0	972.3	967.8	1055.4	1079.2	912.9	804.5
70°	338.4	344.4	402.3	565.6	709.5	635.3	622.0	632.4	702.1	731.8	696.2
72.5°	244.9	250.9	299.8	381.5	443.8	433.4	442.3	500.2	586.3	617.5	580.4
75°	163.3	167.7	194.5	233.0	262.7	283.5	299.8	366.6	446.8	464.6	446.8
77.5°	112.8	117.3	135.1	164.8	167.7	181.1	187.0	218.2	267.2	289.5	277.6
80°	63.8	63.8	72.7	84.6	103.9	121.7	124.7	149.9	172.2	187.0	190.0
82.5°	29.7	31.2	38.6	52.0	68.3	84.6	87.6	103.9	120.2	135.1	139.5
85°	14.8	16.3	22.3	31.2	41.6	50.5	49.0	50.5	53.4	50.5	52.0
87.5°	4.5	4.5	5.9	7.4	5.9	7.4	7.4	8.9	10.4	11.9	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9
2.5°	2351.3	2355.7	2326.0	2354.2	2343.9	2342.4	2363.2	2360.2	2367.6	2364.6	2346.8
5°	2352.8	2342.4	2373.5	2345.3	2358.7	2386.9	2367.6	2412.1	2389.9	2404.7	2372.1
7.5°	2398.8	2401.8	2395.8	2407.7	2401.8	2415.1	2404.7	2415.1	2397.3	2398.8	2428.5
10°	2438.9	2430.0	2440.3	2425.5	2435.9	2431.4	2407.7	2400.3	2406.2	2398.8	2418.1
12.5°	2513.1	2496.8	2489.3	2471.5	2459.6	2415.1	2378.0	2357.2	2385.4	2389.9	2381.0
15°	2588.8	2590.3	2556.1	2516.0	2441.8	2375.0	2383.9	2391.4	2391.4	2403.2	2381.0
17.5°	2636.3	2636.3	2605.1	2525.0	2449.3	2410.7	2401.8	2378.0	2357.2	2354.2	2352.8
20°	2719.4	2694.2	2622.9	2523.5	2446.3	2428.5	2361.7	2305.3	2262.2	2247.4	2245.9
22.5°	2814.4	2750.6	2651.1	2526.4	2441.8	2416.6	2291.9	2207.3	2130.1	2097.4	2101.9
25°	2902.0	2799.6	2667.5	2513.1	2425.5	2303.8	2164.2	2047.0	1966.8	1940.1	1926.7
27.5°	2962.9	2851.5	2667.5	2525.0	2364.6	2177.6	2035.1	1885.2	1815.4	1797.6	1800.6
30°	3044.5	2916.8	2713.5	2499.7	2242.9	2014.3	1843.6	1745.6	1704.1	1689.2	1699.6
32.5°	3236.0	3087.5	2777.3	2438.9	2098.9	1851.0	1713.0	1658.1	1597.2	1567.5	1557.1
35°	3443.8	3249.3	2839.6	2336.4	1937.1	1702.6	1616.5	1566.0	1493.3	1460.6	1466.6
37.5°	3737.7	3457.2	2844.1	2167.2	1762.0	1619.5	1540.8	1462.1	1402.8	1352.3	1337.4
40°	4134.0	3740.7	2833.7	1989.1	1621.0	1521.5	1463.6	1365.6	1298.8	1263.2	1270.6
42.5°	4482.9	4073.2	2790.7	1787.2	1493.3	1454.7	1389.4	1292.9	1227.6	1190.5	1187.5
45°	4776.8	4318.1	2709.0	1615.0	1386.4	1380.5	1304.8	1230.6	1178.6	1144.5	1159.3
47.5°	5048.4	4515.5	2585.8	1442.8	1288.5	1300.3	1227.6	1181.6	1148.9	1117.7	1116.3
50°	5146.4	4512.6	2477.5	1300.3	1209.8	1203.8	1200.9	1151.9	1117.7	1091.0	1102.9
52.5°	5309.7	4563.0	2360.2	1202.4	1138.5	1140.0	1150.4	1114.8	1076.2	1059.9	1074.7
55°	5544.2	4570.5	2101.9	1088.1	1079.2	1089.5	1089.5	1065.8	1033.1	1019.8	1012.4
56°	5352.7	4349.3	1885.2	1058.4	1049.5	1049.5	1077.7	1051.0	1010.9	1000.5	991.6
57.5°	4937.1	3810.4	1577.9	1022.7	1009.4	1030.2	1045.0	1016.8	979.7	964.9	973.8
60°	3405.2	2578.4	1186.0	945.6	945.6	979.7	991.6	950.0	933.7	932.2	920.3
62.5°	1987.6	1502.2	927.7	875.8	878.8	907.0	915.9	892.1	871.3	896.6	908.4
65°	1053.9	896.6	795.6	801.6	803.1	825.3	863.9	862.4	860.9	868.4	869.9
67.5°	763.0	745.2	722.9	717.0	719.9	736.3	774.9	804.5	803.1	785.2	771.9
70°	679.9	654.6	641.3	642.7	630.9	650.2	681.3	700.6	666.5	645.7	636.8
72.5°	565.6	558.1	549.2	550.7	527.0	522.5	486.9	486.9	478.0	472.0	482.4
75°	432.0	429.0	433.4	426.0	400.8	374.1	353.3	334.0	304.3	292.4	286.5
77.5°	273.1	282.0	292.4	276.1	265.7	246.4	225.6	206.3	182.6	169.2	169.2
80°	185.5	193.0	200.4	197.4	185.5	167.7	151.4	130.6	114.3	103.9	102.4
82.5°	141.0	147.0	157.3	145.5	133.6	118.8	105.4	90.5	75.7	63.8	63.8
85°	50.5	57.9	63.8	69.8	74.2	75.7	65.3	53.4	43.0	34.1	32.7
87.5°	13.4	14.8	16.3	14.8	14.8	14.8	16.3	14.8	13.4	10.4	10.4
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)