

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637723

Luminaire Tested: GWS-SA4D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21257.4 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

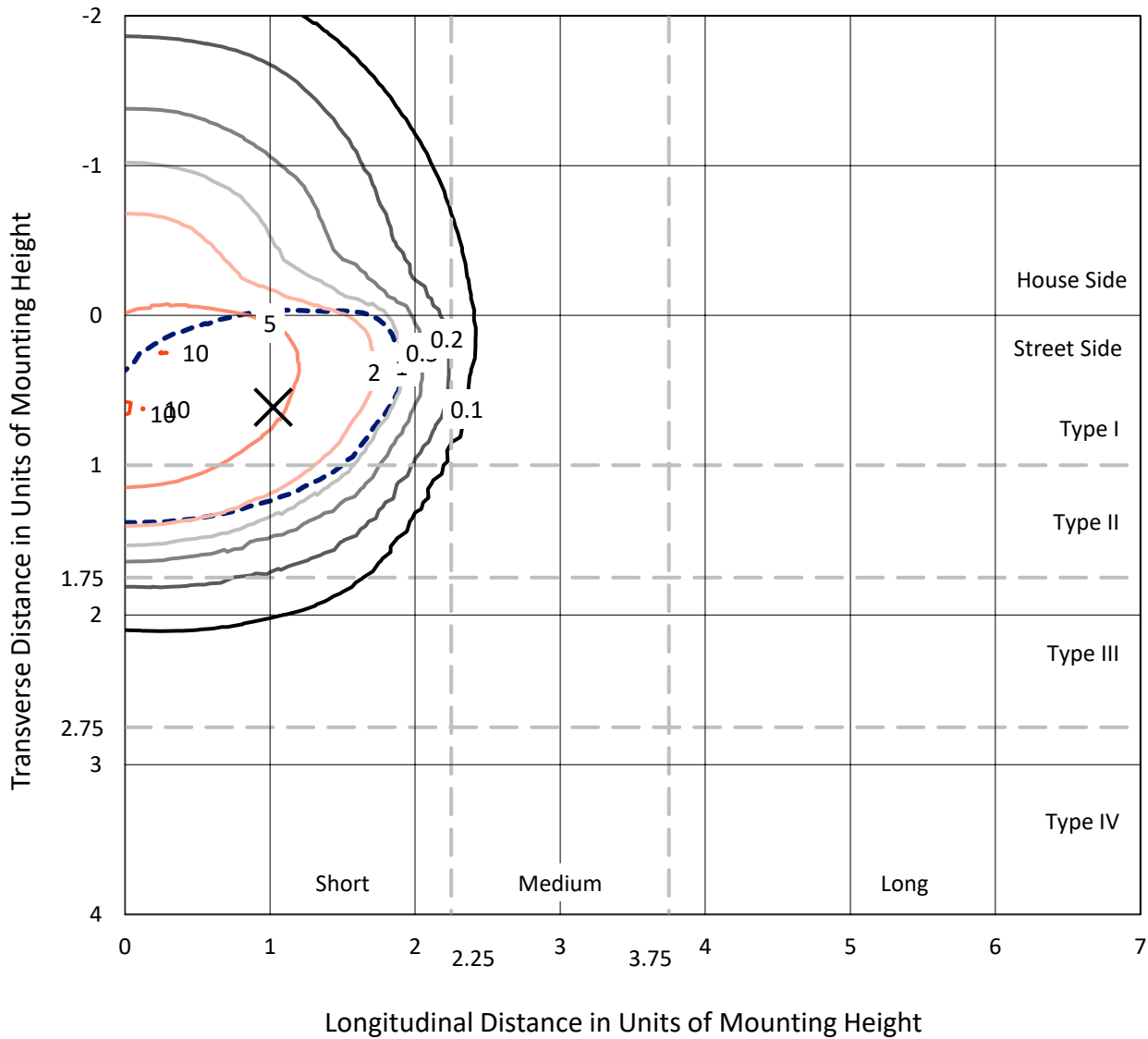
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

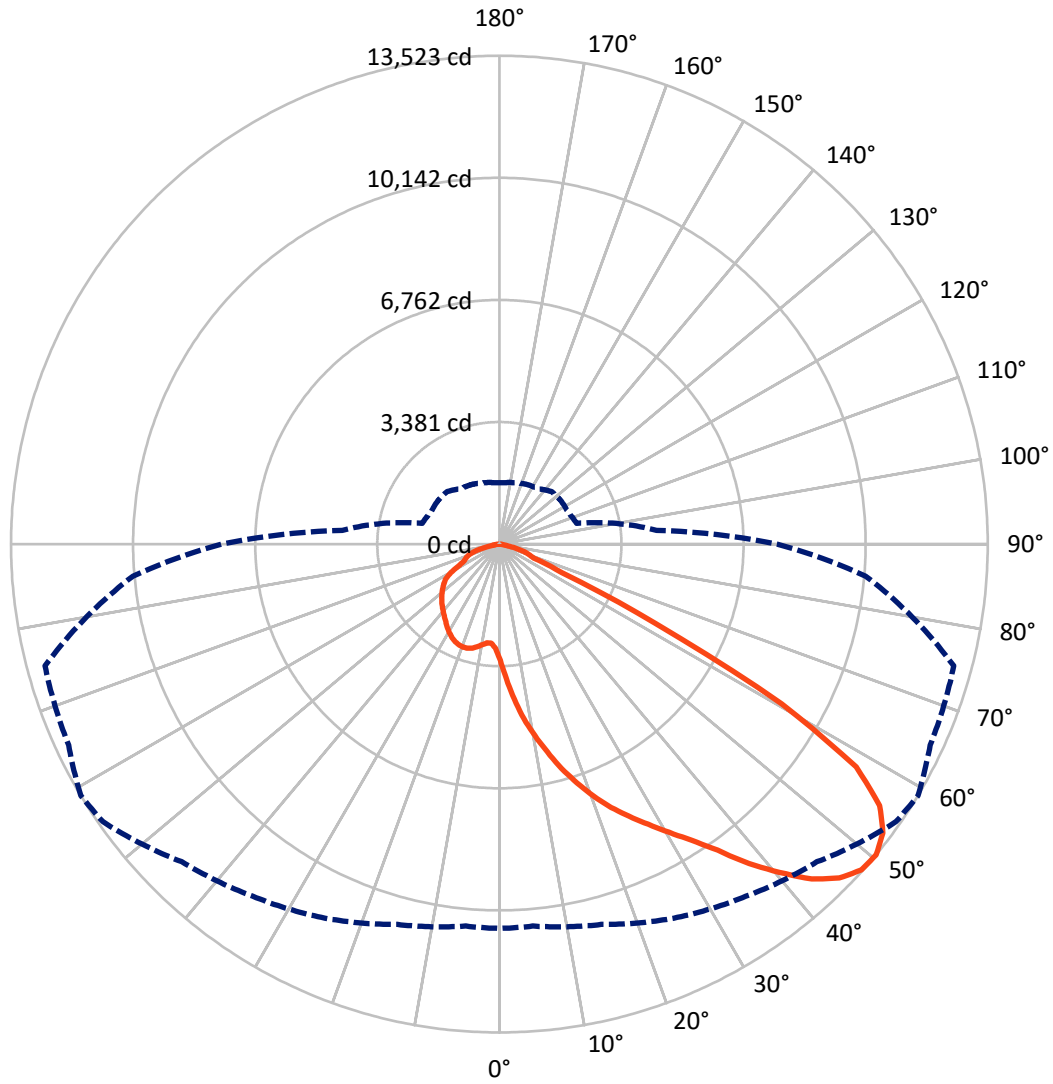
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P637723  
CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4889.6	0.0	4889.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	16367.8	0.0	16367.8
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	21257.4	0.0	21257.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.3	1.7
10°-20°	1311.6	6.2
20°-30°	2483.6	11.7
30°-40°	4118.6	19.4
40°-50°	5626.2	26.5
50°-60°	5107.2	24.0
60°-70°	1700.7	8.0
70°-80°	496.0	2.3
80°-90°	52.1	0.2
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°	21257.4	100.0
0°-180°	21257.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637723

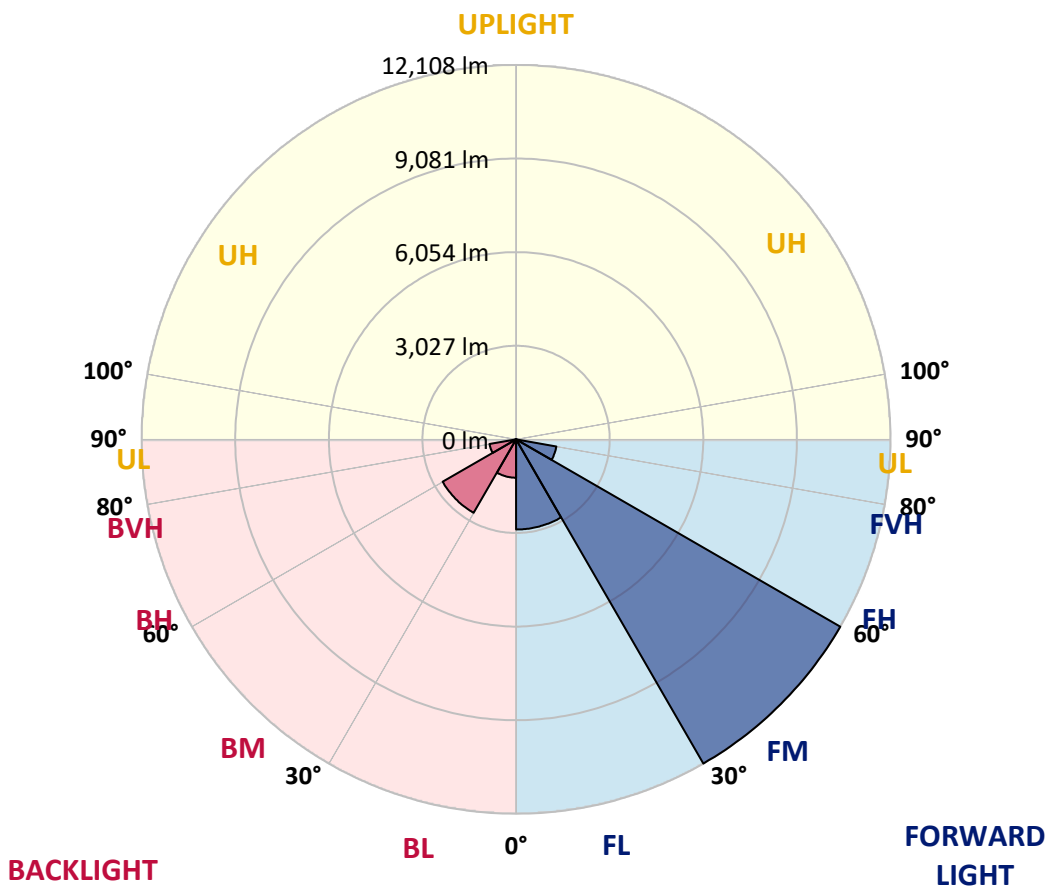
CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.9	13.7			
FM (30°-60°)	12108.5	57.0			
FH (60°-80°)	1324.0	6.2			G1/1800
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	1241.6	5.8	B3/2500		
BM (30°-60°)	2743.5	12.9	B3/5000		
BH (60°-80°)	872.7	4.1	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P637723

CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6
2.5°	4173.0	4204.2	4155.7	4159.1	4037.9	3982.5	3826.7	3734.9	3674.3	3504.6	3350.5
5°	5014.5	4978.1	4940.1	4917.5	4811.9	4663.0	4469.1	4315.0	4173.0	3840.5	3520.2
7.5°	5530.5	5511.5	5485.5	5471.6	5367.7	5211.9	5018.0	4886.4	4680.3	4230.1	3726.3
10°	5968.6	5946.1	5930.5	5940.9	5856.0	5755.6	5544.4	5393.7	5161.7	4642.2	3975.6
12.5°	6308.0	6320.1	6325.3	6380.7	6344.3	6283.7	6065.6	5906.2	5648.3	5076.8	4268.2
15°	6576.4	6572.9	6633.5	6739.1	6798.0	6759.9	6585.0	6451.7	6136.5	5504.5	4583.4
17.5°	6638.7	6642.2	6737.4	6922.7	7114.9	7208.4	7109.7	6950.4	6638.7	5927.0	4910.6
20°	6688.9	6695.8	6794.5	7005.8	7286.3	7547.7	7563.3	7449.0	7180.7	6384.2	5243.1
22.5°	7005.8	7021.4	7047.3	7180.7	7433.5	7764.2	7946.0	7921.8	7696.7	6863.8	5601.5
25°	7838.6	7791.9	7665.5	7627.4	7724.4	7992.7	8302.7	8349.4	8238.6	7391.9	5987.6
27.5°	8867.2	8817.0	8629.9	8432.6	8223.0	8316.5	8647.3	8787.5	8789.2	7973.7	6375.5
30°	9800.5	9760.6	9608.3	9326.0	8964.1	8829.1	9073.2	9262.0	9374.5	8645.5	6817.0
32.5°	10598.7	10562.3	10356.3	10126.0	9772.8	9500.9	9589.2	9771.0	10034.2	9514.8	7365.9
35°	11270.5	11234.2	11036.8	10804.7	10477.5	10314.7	10283.6	10408.2	10749.3	10422.1	7996.2
37.5°	11816.0	11779.6	11573.5	11355.4	11106.0	11116.4	11163.2	11223.8	11419.4	11393.5	8669.8
40°	12169.2	12131.1	11983.9	11828.1	11670.5	11795.2	12027.2	11954.5	12058.4	12177.9	9289.7
42.5°	12326.8	12278.3	12193.4	12158.8	12110.3	12304.3	12751.0	12678.3	12553.6	12700.8	9750.2
45°	12169.2	12127.6	12125.9	12231.5	12344.1	12593.4	13251.4	13192.5	12877.4	12953.6	10025.6
47.5°	11686.1	11649.7	11748.4	12025.5	12302.5	12666.1	13474.8	13485.2	13107.7	13059.2	10203.9
50°	10642.0	10617.7	10903.4	11428.1	11906.0	12439.3	13403.8	13523.3	13163.1	13026.3	10181.4
52.5°	8519.1	8631.7	9253.3	10129.5	11057.6	12041.1	13140.6	13296.4	12896.4	12809.9	10060.2
55°	5831.8	5883.7	6505.4	7785.0	9256.8	11178.8	12536.3	12777.0	12581.3	12773.5	10186.6
57.5°	3019.8	3061.3	3551.4	4687.3	6278.5	8834.3	10858.4	11648.0	11945.8	12957.0	10579.7
60°	1239.8	1274.4	1477.0	2025.9	3167.0	5144.4	7814.4	8984.9	9684.4	11833.3	9395.3
62.5°	900.4	917.7	1014.7	1208.6	1658.8	2521.1	4422.3	4853.5	5345.2	7416.1	5965.1
65°	758.4	777.5	855.4	973.1	1210.3	1546.3	1889.1	1899.5	2093.4	3021.5	2211.2
67.5°	635.5	652.8	722.0	822.5	978.3	1097.8	1014.7	1016.4	1012.9	1096.1	1059.7
70°	495.2	509.1	578.3	685.7	767.1	704.7	793.0	877.9	841.5	874.4	924.6
72.5°	361.9	377.5	438.1	519.5	498.7	502.1	642.4	729.0	708.2	744.6	791.3
75°	261.5	271.9	303.0	259.7	273.6	330.7	451.9	498.7	519.5	550.6	592.2
77.5°	84.8	84.8	95.2	119.5	148.9	183.5	230.3	249.3	280.5	315.1	344.6
80°	43.3	45.0	53.7	65.8	83.1	105.6	135.1	143.7	159.3	178.3	190.5
82.5°	20.8	22.5	26.0	32.9	43.3	55.4	74.5	83.1	93.5	105.6	114.3
85°	5.2	5.2	6.9	10.4	13.9	20.8	27.7	32.9	41.6	50.2	55.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	8.7	10.4	13.9
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: P637723

CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6	3220.6
2.5°	3281.2	3184.3	3059.6	2954.0	2857.0	2782.6	2718.5	2687.3	2657.9	2637.1	2644.0
5°	3371.3	3205.1	2973.0	2812.0	2713.3	2663.1	2628.5	2611.1	2607.7	2593.8	2588.6
7.5°	3502.9	3265.7	2955.7	2793.0	2727.2	2701.2	2682.1	2671.8	2676.9	2663.1	2657.9
10°	3665.6	3366.1	2999.0	2855.3	2798.2	2779.1	2758.3	2744.5	2737.5	2716.8	2713.3
12.5°	3868.2	3490.8	3076.9	2934.9	2877.8	2844.9	2817.2	2793.0	2777.4	2751.4	2744.5
15°	4086.4	3629.3	3168.7	3012.9	2945.3	2896.9	2851.8	2815.5	2787.8	2753.1	2747.9
17.5°	4323.6	3774.7	3244.9	3066.5	2980.0	2915.9	2850.1	2796.4	2758.3	2713.3	2708.1
20°	4571.2	3921.9	3302.0	3092.5	2981.7	2895.1	2806.8	2735.8	2687.3	2642.3	2638.9
22.5°	4827.5	4057.0	3336.7	3085.6	2954.0	2846.6	2741.0	2661.4	2604.2	2550.5	2547.1
25°	5085.5	4186.8	3345.3	3057.9	2898.6	2773.9	2668.3	2574.8	2510.7	2450.1	2443.2
27.5°	5347.0	4295.9	3324.5	3002.5	2824.1	2689.1	2583.4	2491.7	2425.9	2365.3	2354.9
30°	5625.7	4389.4	3279.5	2929.7	2737.5	2599.0	2495.1	2425.9	2363.5	2302.9	2292.5
32.5°	5923.6	4470.8	3215.5	2841.4	2637.1	2509.0	2432.8	2370.5	2308.1	2254.5	2244.1
35°	6278.5	4524.5	3120.2	2727.2	2543.6	2443.2	2391.2	2318.5	2242.3	2183.5	2178.3
37.5°	6645.6	4566.0	3005.9	2618.1	2462.2	2405.1	2361.8	2263.1	2167.9	2096.9	2088.2
40°	7000.6	4600.7	2864.0	2515.9	2387.8	2377.4	2318.5	2195.6	2031.1	1951.4	1944.5
42.5°	7331.3	4611.1	2715.0	2406.8	2320.3	2315.1	2249.3	2058.8	1932.4	1882.2	1875.2
45°	7558.1	4602.4	2560.9	2304.7	2252.7	2225.0	2155.8	1960.1	1882.2	1837.2	1828.5
47.5°	7726.1	4557.4	2387.8	2197.3	2176.5	2138.4	1989.5	1897.8	1825.0	1780.0	1771.4
50°	7696.7	4370.4	2212.9	2093.4	2084.8	2051.9	1868.3	1819.8	1755.8	1707.3	1700.4
52.5°	7544.3	4015.4	2034.5	1979.1	1996.5	1932.4	1781.7	1726.3	1670.9	1615.5	1603.4
55°	7582.4	3759.2	1899.5	1868.3	1899.5	1754.0	1684.8	1625.9	1574.0	1520.3	1509.9
57.5°	7748.6	3506.3	1755.8	1748.8	1781.7	1617.2	1560.1	1485.7	1411.2	1367.9	1367.9
60°	6507.1	2555.7	1503.0	1520.3	1594.7	1506.4	1456.2	1380.0	1298.6	1260.6	1260.6
62.5°	3847.5	1603.4	1246.7	1227.7	1274.4	1329.8	1357.5	1295.2	1198.2	1148.0	1149.7
65°	1695.2	1167.1	1099.5	1083.9	1070.1	1108.2	1184.4	1189.6	1087.4	1028.5	1030.3
67.5°	1044.1	1056.2	1028.5	1016.4	1004.3	997.4	990.4	993.9	966.2	912.5	910.8
70°	942.0	974.9	955.8	945.4	929.8	917.7	876.2	808.6	761.9	748.0	763.6
72.5°	810.4	855.4	845.0	839.8	820.7	791.3	735.9	670.1	614.7	580.1	587.0
75°	611.2	647.6	652.8	654.5	633.7	606.0	548.9	493.5	445.0	408.6	417.3
77.5°	351.5	372.3	377.5	382.7	367.1	356.7	318.6	278.8	252.8	214.7	225.1
80°	195.7	204.3	204.3	206.1	197.4	185.3	159.3	136.8	124.7	107.4	109.1
82.5°	117.7	121.2	122.9	124.7	119.5	107.4	88.3	72.7	65.8	57.1	55.4
85°	57.1	60.6	60.6	62.3	53.7	46.8	36.4	27.7	24.2	17.3	19.0
87.5°	13.9	15.6	15.6	13.9	12.1	8.7	5.2	1.7	0.0	0.0	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)