

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: P639715

Luminaire Tested: GWS-SA5C-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22685.6 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

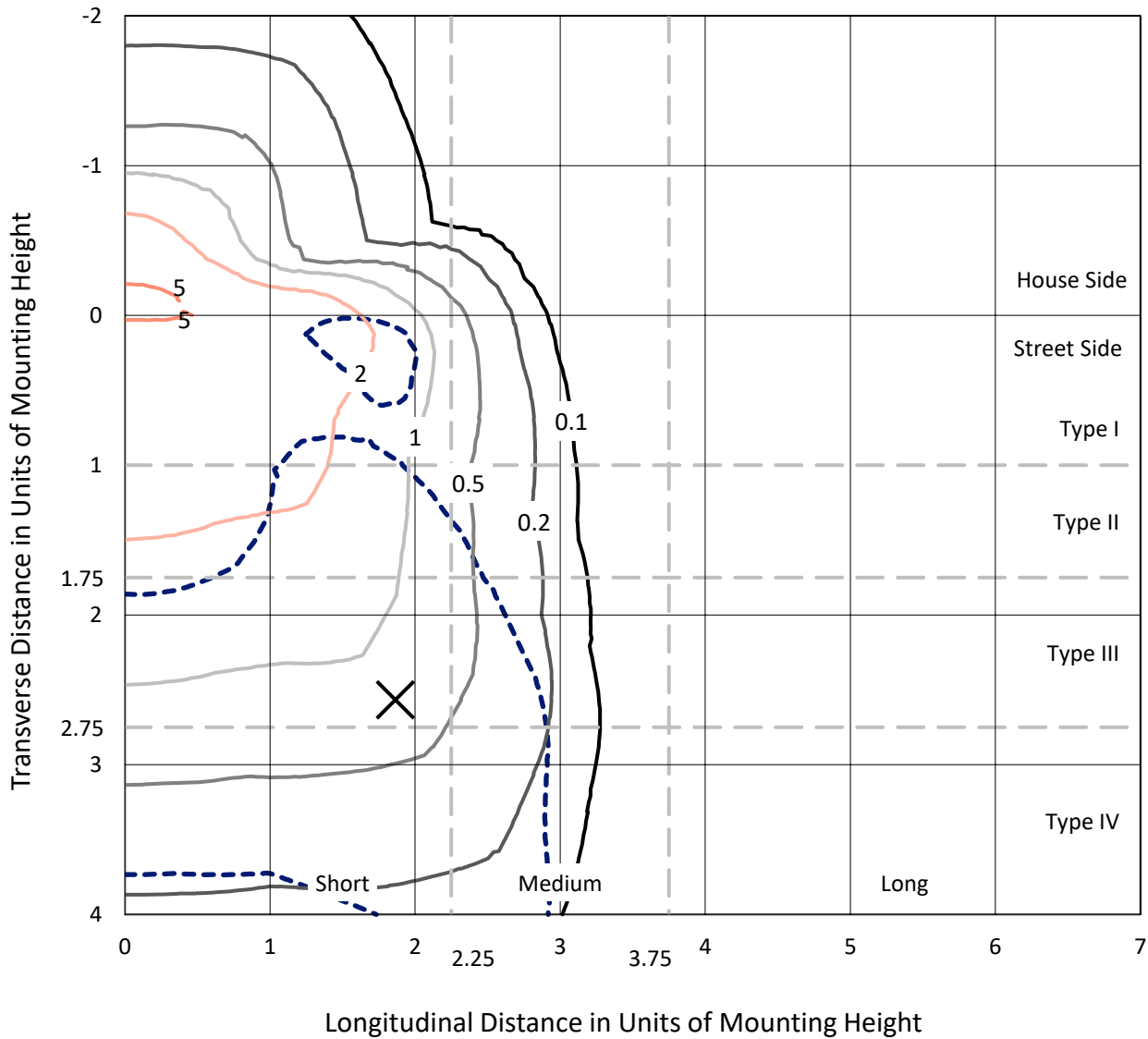
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

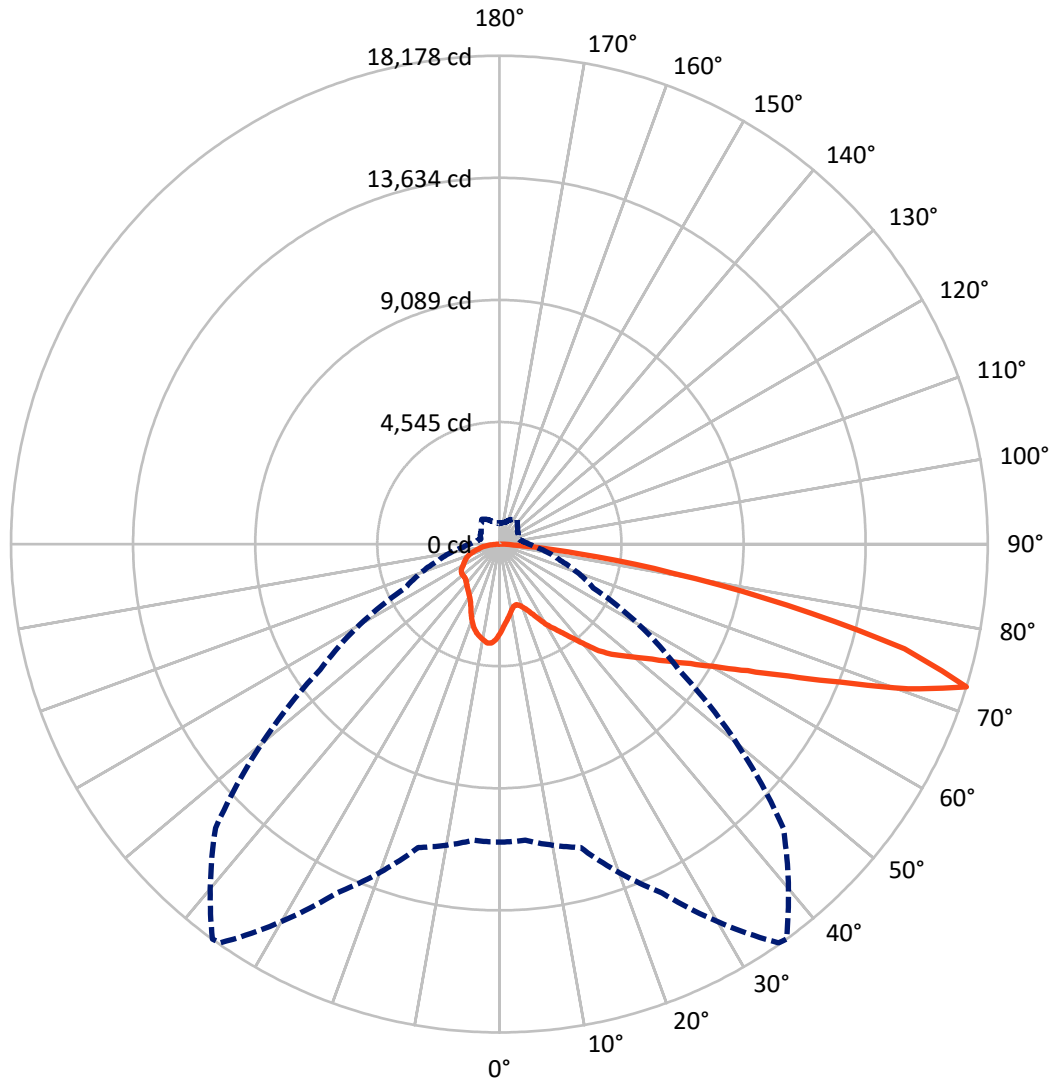
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5230.0	0.0	5230.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	17455.6	0.0	17455.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	22685.6	0.0	22685.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.4
10°-20°	875.6	3.9
20°-30°	1450.1	6.4
30°-40°	2171.6	9.6
40°-50°	3168.3	14.0
50°-60°	4509.4	19.9
60°-70°	5697.3	25.1
70°-80°	4059.8	17.9
80°-90°	443.2	2.0
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°	22685.6	100.0
0°-180°	22685.6	100.0

Coefficient of Utilization



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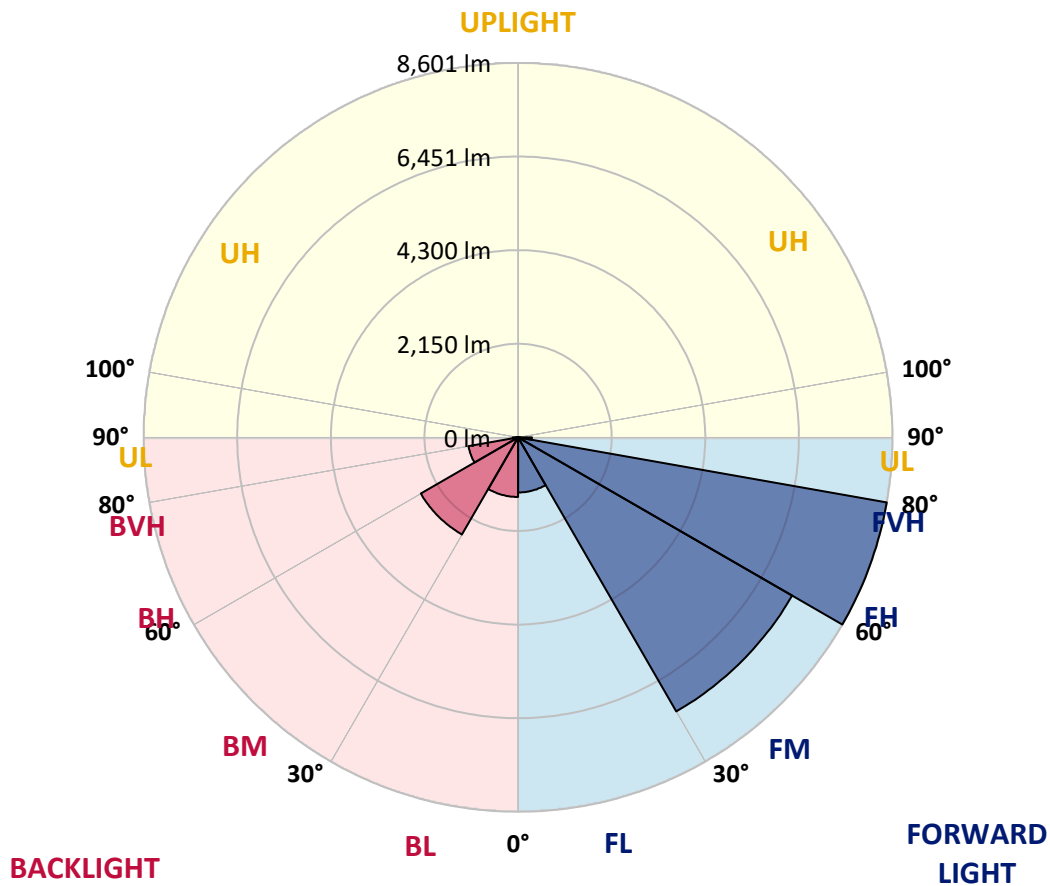
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.5	5.6			
FM (30°-60°)	7270.2	32.0			
FH (60°-80°)	8600.9	37.9			G4/12000
FVH (80°-90°)	318.1	1.4			G3/500
BL (0°-30°)	1369.6	6.0	B3/2500		
BM (30°-60°)	2579.1	11.4	B3/5000		
BH (60°-80°)	1156.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	125.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3028.9	3023.8	3013.7	3044.0	3074.3	3071.0	3113.1	3153.5	3197.2	3242.7	3303.3
5°	2786.4	2783.1	2774.6	2820.1	2865.6	2863.9	2932.9	2998.6	3087.8	3185.4	3306.7
7.5°	2544.0	2535.6	2547.3	2604.6	2668.6	2675.3	2769.6	2877.3	3007.0	3153.5	3325.2
10°	2330.2	2328.5	2333.5	2397.5	2493.5	2500.2	2621.4	2771.3	2943.0	3138.3	3367.3
12.5°	2274.6	2271.2	2257.8	2289.8	2362.1	2372.2	2505.3	2688.8	2899.2	3146.7	3424.5
15°	2365.5	2357.1	2310.0	2294.8	2330.2	2338.6	2451.4	2639.9	2874.0	3161.9	3496.9
17.5°	2522.1	2517.0	2427.8	2365.5	2389.1	2395.8	2480.0	2631.5	2867.2	3192.2	3586.2
20°	2751.1	2729.2	2589.4	2495.2	2495.2	2505.3	2555.8	2668.6	2875.7	3229.2	3687.2
22.5°	3054.1	3010.3	2813.4	2685.4	2651.7	2665.2	2687.1	2761.2	2911.0	3291.5	3813.4
25°	3394.2	3353.8	3119.8	2939.6	2892.5	2897.5	2879.0	2892.5	2988.5	3377.4	3970.0
27.5°	3756.2	3729.3	3480.1	3251.1	3177.0	3177.0	3111.4	3079.4	3096.2	3475.0	4145.1
30°	4079.5	4042.4	3832.0	3581.1	3483.5	3483.5	3358.9	3289.8	3249.4	3594.6	4379.1
32.5°	4249.5	4227.6	4087.9	3895.9	3776.4	3757.9	3650.1	3569.3	3475.0	3771.4	4695.7
35°	4471.7	4466.7	4382.5	4232.7	4081.1	4054.2	3980.1	3916.1	3752.8	3991.9	5116.6
37.5°	4751.2	4742.8	4729.3	4640.1	4458.3	4453.2	4387.6	4310.1	4098.0	4310.1	5626.7
40°	5064.4	5049.2	5032.4	5030.7	4921.3	4902.8	4897.7	4810.2	4513.8	4694.0	6158.8
42.5°	5495.4	5443.2	5284.9	5355.7	5436.5	5419.6	5483.6	5352.3	5032.4	5150.3	6662.2
45°	6025.7	5897.8	5584.6	5604.8	5808.6	5842.2	6064.5	6032.5	5603.2	5677.2	7192.5
47.5°	6344.0	6232.8	5941.6	5924.7	6179.0	6221.1	6704.3	6764.9	6217.7	6312.0	7847.4
50°	6604.9	6527.5	6288.4	6312.0	6581.4	6623.4	7339.0	7468.6	6796.9	6961.9	8608.5
52.5°	6919.8	6808.6	6623.4	6734.6	7064.6	7115.1	8044.4	8184.2	7318.8	7675.7	9396.4
55°	7096.5	7051.1	7054.5	7224.5	7638.7	7707.7	8783.6	8760.0	7796.9	8286.9	9989.0
57.5°	7504.0	7487.1	7642.0	7706.0	8308.8	8398.0	9522.7	9320.6	8231.3	8760.0	10273.6
60°	8222.9	8180.8	8315.5	8413.2	9137.1	9263.4	10347.7	9869.5	8526.0	9111.9	10177.6
62.5°	9233.1	9180.9	9185.9	9340.8	10246.6	10379.6	11265.2	10327.5	8616.9	9165.7	9569.8
65°	10489.1	10413.3	10327.5	10537.9	11719.8	11830.9	12263.6	10660.8	8399.7	8647.2	8300.3
67.5°	11814.1	11751.8	11650.8	12091.9	13627.4	13694.7	13383.3	10632.2	7711.1	7259.9	5822.0
70°	11891.6	11906.7	12384.9	13981.0	16117.5	16134.3	14442.3	10056.4	6244.6	4705.8	2900.9
72.5°	11093.5	11068.3	11691.2	14326.1	18121.0	18178.3	14942.3	8147.1	3858.9	2347.0	1360.4
75°	9010.8	9054.6	9709.6	12534.7	15531.6	15582.1	12181.1	4803.4	1833.5	1148.2	870.4
77.5°	3879.1	4123.2	5414.6	8830.7	11123.8	10967.2	6278.3	1946.3	978.2	818.2	666.7
80°	1119.6	1215.6	1929.5	4199.0	6665.5	6547.7	2485.1	729.0	681.9	614.5	478.2
82.5°	362.0	400.7	707.1	1671.9	2986.8	2983.4	942.8	431.0	446.2	417.5	308.1
85°	101.0	116.2	217.2	506.8	924.3	905.8	272.7	203.7	237.4	240.8	153.2
87.5°	0.0	0.0	1.7	3.4	3.4	3.4	6.7	30.3	69.0	87.5	62.3
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°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3340.3	3335.3	3404.3	3458.2	3508.7	3542.4	3552.5	3559.2	3572.7	3579.4	3572.7
5°	3363.9	3389.2	3503.7	3587.8	3655.2	3695.6	3697.3	3693.9	3704.0	3695.6	3690.5
7.5°	3414.4	3463.2	3608.0	3697.3	3741.0	3742.7	3702.3	3655.2	3631.6	3611.4	3604.7
10°	3481.8	3554.2	3712.4	3771.4	3757.9	3695.6	3606.4	3532.3	3490.2	3459.9	3453.1
12.5°	3574.4	3655.2	3805.0	3803.3	3719.2	3608.0	3503.7	3414.4	3353.8	3318.5	3306.7
15°	3661.9	3764.6	3872.4	3793.2	3660.2	3525.5	3390.9	3271.3	3190.5	3134.9	3124.8
17.5°	3769.7	3879.1	3921.2	3761.3	3586.2	3412.7	3232.6	3076.0	2966.6	2900.9	2895.9
20°	3894.3	3991.9	3944.8	3705.7	3490.2	3262.9	3018.8	2843.7	2725.8	2661.8	2666.9
22.5°	4039.1	4109.8	3951.5	3629.9	3357.2	3050.8	2778.0	2609.6	2530.5	2496.8	2498.5
25°	4193.9	4239.4	3939.7	3527.2	3153.5	2791.5	2530.5	2453.1	2446.3	2437.9	2441.3
27.5°	4377.5	4367.4	3904.4	3382.4	2879.0	2490.1	2357.1	2377.3	2404.2	2400.9	2404.2
30°	4623.3	4527.3	3858.9	3182.1	2552.4	2237.6	2254.4	2311.6	2347.0	2350.4	2360.5
32.5°	4904.4	4704.1	3786.5	2909.3	2240.9	2096.1	2158.4	2227.5	2269.5	2278.0	2291.4
35°	5239.5	4906.1	3658.6	2569.2	2017.0	2012.0	2069.2	2116.3	2161.8	2165.2	2165.2
37.5°	5625.0	5108.2	3454.8	2193.8	1878.9	1939.6	1993.4	2003.5	2015.3	2005.2	2010.3
40°	5978.6	5303.5	3165.2	1852.0	1766.1	1875.6	1921.0	1887.4	1850.3	1825.1	1830.1
42.5°	6274.9	5436.5	2781.4	1612.9	1651.7	1818.3	1853.7	1784.7	1712.3	1665.1	1671.9
45°	6608.3	5559.4	2330.2	1451.3	1554.0	1777.9	1801.5	1712.3	1619.7	1548.9	1538.8
47.5°	7067.9	5810.2	1929.5	1338.5	1485.0	1756.0	1794.8	1673.5	1552.3	1446.2	1434.5
50°	7635.3	6165.5	1594.4	1264.4	1453.0	1744.3	1793.1	1631.4	1486.7	1362.1	1353.6
52.5°	8254.9	6512.3	1346.9	1207.2	1421.0	1708.9	1784.7	1584.3	1417.6	1282.9	1272.8
55°	8667.4	6648.7	1180.2	1153.3	1368.8	1653.3	1751.0	1538.8	1313.2	1190.3	1175.2
57.5°	8788.6	6473.6	1064.1	1104.5	1301.5	1575.9	1687.0	1442.9	1249.3	1151.6	1139.8
60°	8579.8	6032.5	991.7	1064.1	1227.4	1476.6	1575.9	1387.3	1198.8	1111.2	1102.8
62.5°	7990.6	5352.3	936.1	1022.0	1151.6	1372.2	1505.2	1320.0	1143.2	1074.2	1062.4
65°	6805.3	4389.3	890.6	978.2	1079.2	1272.8	1427.7	1252.6	1082.6	1030.4	1016.9
67.5°	4759.7	3082.7	841.8	926.0	1006.8	1176.9	1346.9	1190.3	1020.3	981.6	968.1
70°	2326.8	1634.8	782.9	865.4	929.4	1079.2	1266.1	1114.6	937.8	915.9	897.4
72.5°	1107.8	914.2	713.9	782.9	823.3	949.6	1131.4	1005.1	840.1	793.0	761.0
75°	742.5	649.9	622.9	685.2	695.3	796.4	969.8	867.1	740.8	686.9	660.0
77.5°	562.3	496.7	523.6	579.2	559.0	654.9	798.0	772.8	668.4	619.6	606.1
80°	395.7	362.0	415.9	449.5	434.4	557.3	718.9	661.7	550.6	496.7	486.6
82.5°	249.2	242.4	306.4	311.5	316.5	441.1	591.0	520.2	427.6	351.9	326.6
85°	124.6	138.1	183.5	183.5	181.8	227.3	336.7	293.0	230.7	183.5	178.5
87.5°	42.1	58.9	79.1	64.0	48.8	38.7	43.8	53.9	57.2	55.6	55.6
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)