

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: P642705

Luminaire Tested: GWS-SA6D-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30509.8 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

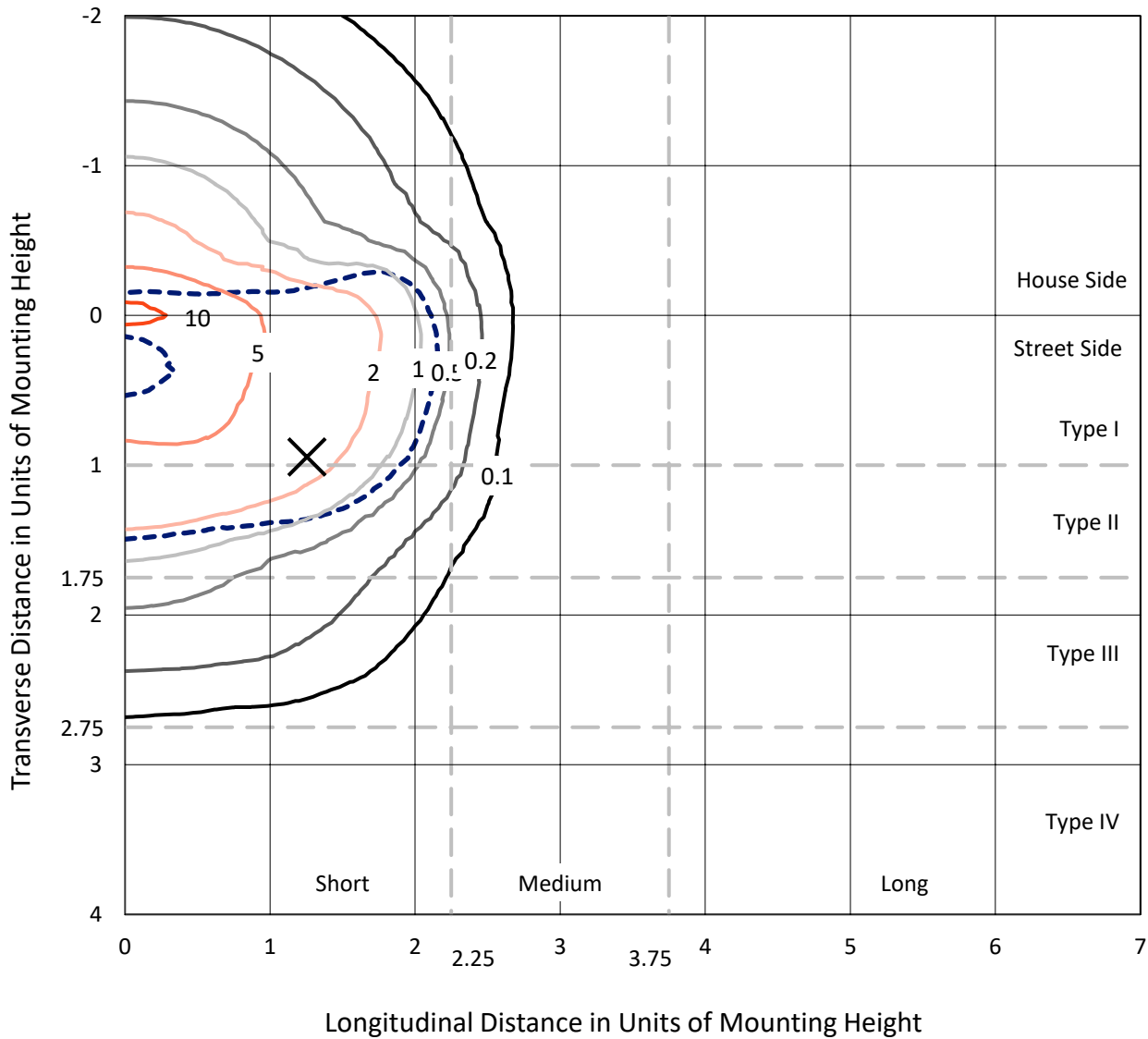
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

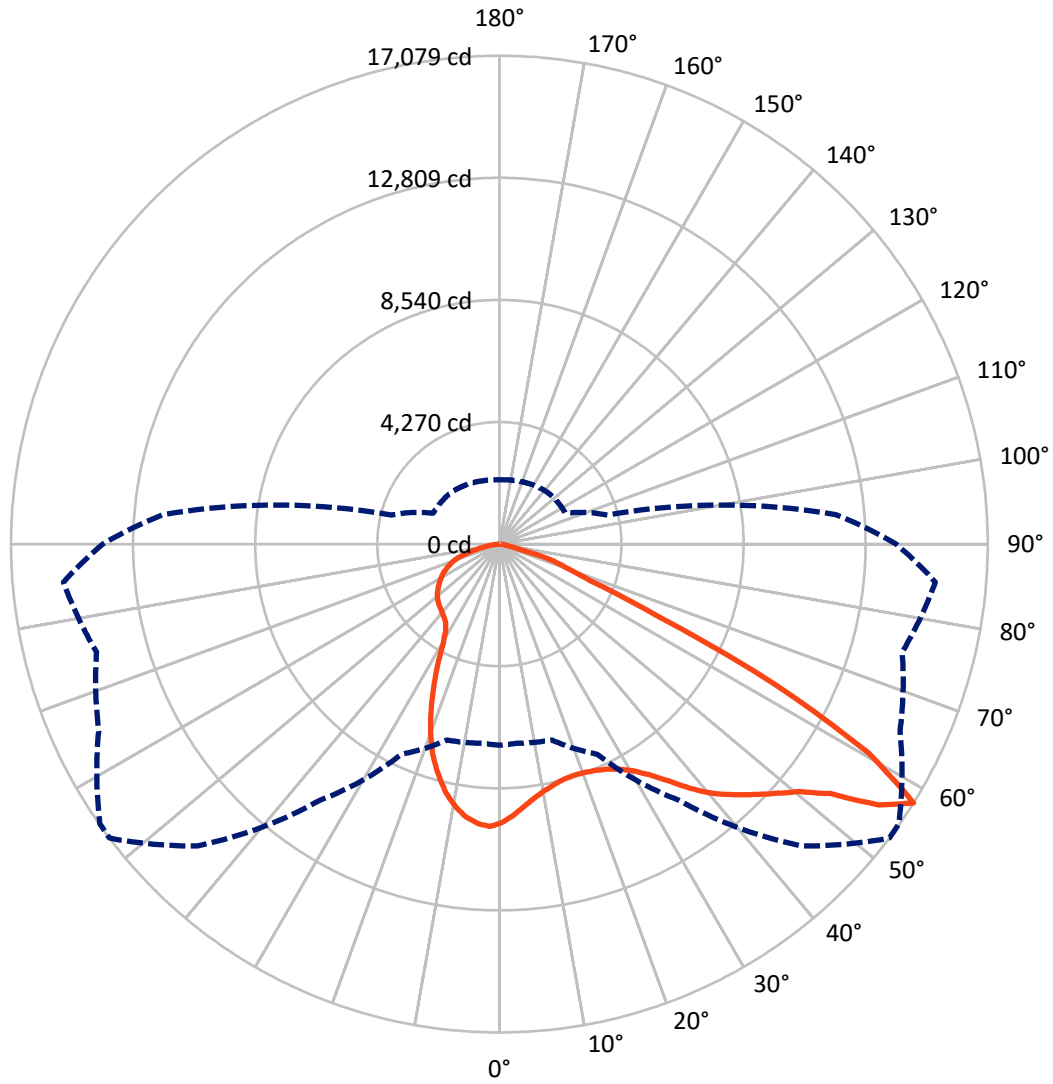
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9539.3	0.0	9539.3
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	20970.5	0.0	20970.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	30509.8	0.0	30509.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.0	2.9
10°-20°	2311.4	7.6
20°-30°	3405.5	11.2
30°-40°	4766.8	15.6
40°-50°	6266.3	20.5
50°-60°	7347.3	24.1
60°-70°	4328.4	14.2
70°-80°	1076.8	3.5
80°-90°	126.3	0.4
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°	30509.8	100.0
0°-180°	30509.8	100.0

Coefficient of Utilization



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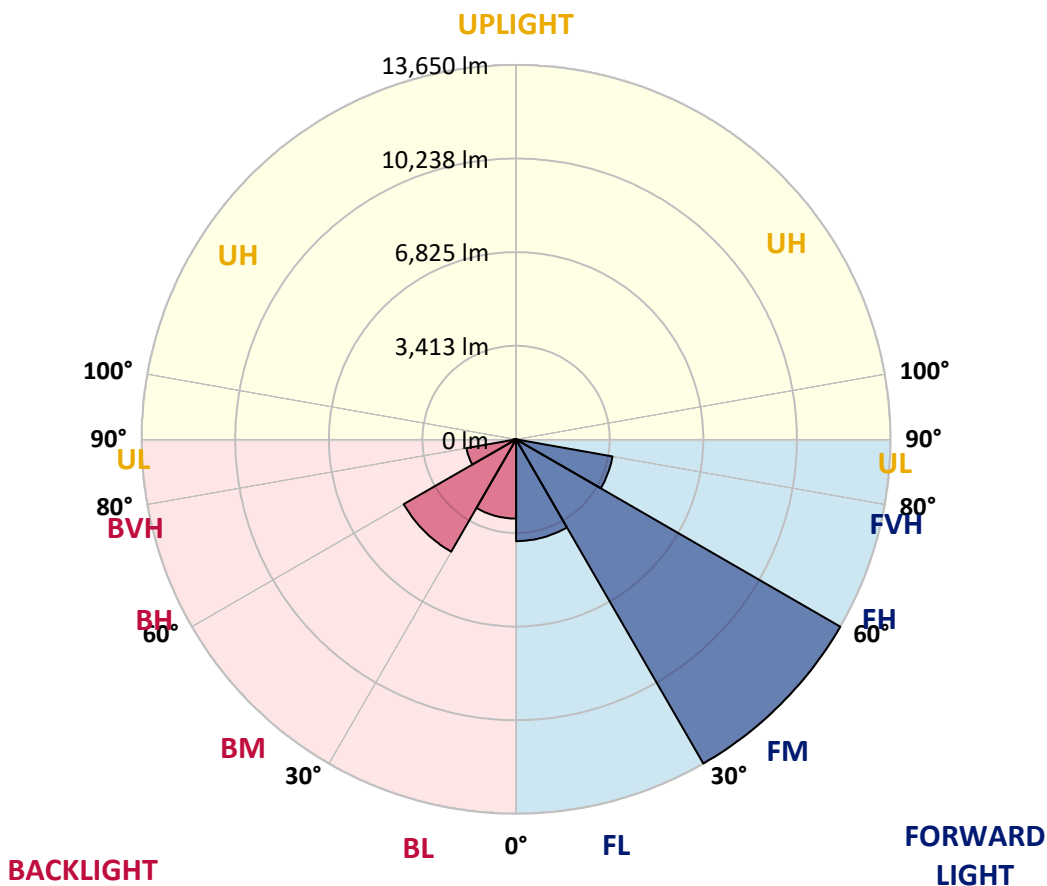
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.4	12.2			
FM (30°-60°)	13650.4	44.7			
FH (60°-80°)	3568.5	11.7			G2/5000
FVH (80°-90°)	42.3	0.1			G1/100
BL (0°-30°)	2888.5	9.5	B4/5000		
BM (30°-60°)	4730.1	15.5	B3/5000		
BH (60°-80°)	1836.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	84.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6
2.5°	9182.8	9208.5	9213.6	9293.2	9298.4	9413.9	9490.9	9475.5	9555.1	9652.7	9729.8
5°	8743.7	8746.3	8771.9	8867.0	8918.3	9069.8	9198.2	9198.2	9352.3	9552.6	9724.6
7.5°	8381.6	8379.0	8402.2	8507.4	8592.2	8774.5	8949.1	8969.7	9185.4	9478.1	9758.0
10°	8045.2	8063.2	8088.9	8217.3	8325.1	8551.1	8759.1	8792.5	9064.7	9426.8	9804.2
12.5°	7829.5	7832.1	7870.6	8014.4	8153.1	8394.5	8612.7	8653.8	8967.1	9378.0	9837.6
15°	7690.9	7693.4	7734.5	7893.7	8055.5	8299.4	8522.9	8569.1	8910.6	9370.3	9901.8
17.5°	7629.2	7626.7	7665.2	7824.4	8001.6	8255.8	8494.6	8551.1	8936.3	9429.3	10014.8
20°	7629.2	7631.8	7652.3	7796.1	7975.9	8245.5	8522.9	8592.2	9036.4	9562.9	10189.4
22.5°	7737.1	7747.3	7757.6	7855.2	7996.4	8260.9	8597.3	8689.8	9252.1	9786.3	10418.0
25°	7947.6	7950.2	7960.5	8040.1	8104.3	8304.6	8720.6	8859.2	9588.5	10112.4	10705.6
27.5°	8230.1	8266.1	8276.3	8327.7	8327.7	8412.4	8913.2	9113.5	10043.0	10582.3	11072.8
30°	8625.6	8638.4	8656.4	8712.9	8651.2	8615.3	9195.6	9452.4	10569.5	11149.8	11514.5
32.5°	8972.2	9000.5	9098.1	9190.5	9080.1	8967.1	9611.6	9914.7	11075.3	11740.4	11984.4
35°	9267.5	9336.9	9524.3	9729.8	9652.7	9539.7	10163.7	10479.6	11491.3	12164.1	12400.4
37.5°	9624.5	9678.4	9935.2	10269.0	10338.4	10284.4	10836.5	11062.5	11768.7	12272.0	12626.4
40°	9986.6	10068.7	10400.0	10862.2	11126.7	11165.2	11458.0	11609.5	11863.7	12061.4	12582.7
42.5°	10356.3	10497.6	10952.1	11491.3	11961.3	12048.6	11981.8	12046.0	11832.9	11771.2	12379.8
45°	10808.3	10975.2	11488.8	12177.0	12795.8	12931.9	12495.4	12436.3	11827.7	11660.8	12254.0
47.5°	11342.4	11509.3	11999.8	12801.0	13591.9	13692.0	13021.8	12914.0	12007.5	11830.3	12423.5
50°	11814.9	11930.5	12369.6	13265.8	14334.0	14393.1	13602.2	13471.2	12454.3	12300.2	12952.5
52.5°	11334.7	11321.9	11784.1	12888.3	14719.2	15430.5	14495.8	14370.0	13317.1	13080.9	13771.6
55°	9616.8	9470.4	9883.8	10970.1	13643.2	16352.4	16098.1	15846.5	14467.5	13866.6	14539.4
57.5°	7030.9	6989.8	7090.0	8109.4	10929.0	14924.6	17079.1	17056.0	15461.3	14585.7	15304.7
60°	5497.9	5436.2	5169.2	5197.4	7449.5	11658.3	14821.9	15502.4	16077.6	15017.1	15838.8
62.5°	4881.6	4835.4	4696.7	4314.1	4437.3	7816.7	10864.8	11488.8	14049.0	13263.2	13604.7
65°	4041.9	4029.0	4144.6	4129.2	3718.3	4316.6	6132.1	6761.3	8833.6	8944.0	8833.6
67.5°	2937.7	2914.6	3207.3	3785.1	3579.6	3258.7	3417.9	3636.1	4529.8	4067.5	3661.8
70°	1910.5	1877.1	2046.6	2734.8	3204.7	2840.1	2462.6	2426.7	2490.9	1548.4	1674.3
72.5°	1281.4	1242.9	1240.3	1504.8	1936.2	1913.1	1907.9	1890.0	1687.1	1222.3	1355.8
75°	713.9	683.1	675.4	649.7	693.3	706.2	752.4	778.1	842.3	927.0	1027.2
77.5°	120.7	118.1	148.9	190.0	261.9	336.4	416.0	439.1	541.8	642.0	706.2
80°	66.8	69.3	89.9	110.4	146.4	200.3	256.8	272.2	333.8	387.8	439.1
82.5°	36.0	36.0	46.2	59.1	79.6	105.3	138.7	151.5	192.6	226.0	261.9
85°	12.8	12.8	18.0	23.1	33.4	43.7	53.9	61.6	84.7	115.6	131.0
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	10.3	10.3	12.8	23.1	33.4
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°	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6	9742.6
2.5°	9794.0	9724.6	9819.6	9863.3	9878.7	9889.0	9822.2	9776.0	9760.6	9711.8	9683.5
5°	9829.9	9783.7	9873.6	9873.6	9809.4	9742.6	9606.5	9511.5	9444.7	9365.1	9352.3
7.5°	9891.5	9858.2	9906.9	9806.8	9645.0	9465.3	9229.0	9044.1	8895.2	8797.6	8800.2
10°	9973.7	9932.6	9894.1	9670.7	9375.4	9044.1	8682.1	8412.4	8165.9	8052.9	7991.3
12.5°	10027.6	9968.6	9806.8	9437.0	9003.0	8558.8	8047.8	7647.2	7290.3	7128.5	7115.6
15°	10094.4	9986.6	9663.0	9134.0	8530.6	7924.5	7267.2	6709.9	6227.2	5975.5	5962.7
17.5°	10181.7	10004.5	9490.9	8787.3	8032.4	7138.8	6311.9	5610.9	5097.3	4902.1	4935.5
20°	10305.0	10025.1	9295.8	8402.2	7413.5	6245.1	5215.4	4570.9	4373.1	4360.3	4334.6
22.5°	10443.6	10037.9	9080.1	7970.8	6663.7	5292.4	4308.9	4034.2	4031.6	4095.8	4111.2
25°	10600.3	10048.2	8836.1	7467.4	5852.2	4342.3	3810.8	3728.6	3792.8	3913.5	3928.9
27.5°	10800.6	10068.7	8540.8	6915.3	4989.4	3751.7	3536.0	3515.5	3592.5	3705.5	3700.3
30°	11095.9	10143.2	8227.5	6281.1	4103.5	3471.8	3369.1	3371.6	3402.5	3456.4	3464.1
32.5°	11396.3	10258.8	7922.0	5567.2	3595.1	3312.6	3266.4	3261.2	3261.2	3284.3	3289.5
35°	11681.4	10389.7	7590.7	4822.5	3348.5	3220.1	3189.3	3173.9	3166.2	3161.1	3153.4
37.5°	11840.6	10453.9	7267.2	4088.1	3217.6	3158.5	3127.7	3107.2	3078.9	3058.4	3053.2
40°	11771.2	10379.4	6892.2	3538.6	3138.0	3099.5	3063.5	3035.3	2996.7	2978.8	2968.5
42.5°	11540.1	10148.3	6483.9	3279.2	3073.8	3035.3	2991.6	2945.4	2919.7	2904.3	2901.7
45°	11296.2	9868.4	5990.9	3127.7	3012.1	2965.9	2914.6	2863.2	2835.0	2827.3	2824.7
47.5°	11288.5	9729.8	5467.1	3007.0	2937.7	2891.5	2827.3	2775.9	2745.1	2734.8	2724.5
50°	11627.4	9871.0	4876.4	2901.7	2860.6	2811.8	2739.9	2683.5	2644.9	2632.1	2629.5
52.5°	12331.0	10402.6	4347.5	2796.4	2757.9	2701.4	2642.4	2585.9	2539.7	2516.5	2514.0
55°	13091.1	11077.9	4018.8	2688.6	2637.2	2588.4	2534.5	2472.9	2421.5	2385.6	2380.4
57.5°	13876.9	11814.9	3918.6	2552.5	2514.0	2480.6	2416.4	2349.6	2290.6	2257.2	2249.5
60°	14524.0	12449.2	4106.1	2408.7	2388.1	2344.5	2285.4	2221.2	2180.1	2154.5	2149.3
62.5°	12159.0	10135.5	3315.2	2252.0	2252.0	2205.8	2139.1	2092.8	2064.6	2046.6	2041.5
65°	7716.5	6275.9	2262.3	2095.4	2092.8	2031.2	1974.7	1943.9	1931.1	1902.8	1897.7
67.5°	3361.4	2868.3	1933.6	1936.2	1925.9	1859.2	1802.7	1779.6	1753.9	1723.1	1720.5
70°	1743.6	1777.0	1730.8	1759.0	1741.0	1661.4	1607.5	1571.6	1517.6	1486.8	1489.4
72.5°	1407.2	1443.2	1494.5	1538.2	1499.7	1435.5	1350.7	1307.1	1237.7	1204.3	1206.9
75°	1073.4	1111.9	1160.7	1206.9	1176.1	1096.5	1042.6	998.9	919.3	880.8	888.5
77.5°	739.6	760.1	819.2	816.6	806.3	783.2	703.6	652.2	570.1	523.9	529.0
80°	459.7	472.5	500.7	513.6	508.4	477.6	413.4	374.9	326.1	297.9	300.4
82.5°	277.3	285.0	310.7	313.3	310.7	287.6	238.8	210.6	179.8	164.3	164.3
85°	141.2	146.4	161.8	161.8	146.4	123.3	110.4	97.6	79.6	71.9	71.9
87.5°	38.5	38.5	48.8	41.1	33.4	30.8	15.4	12.8	5.1	2.6	2.6
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)