

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: P643823

Luminaire Tested: GWS-SA6F-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-760-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

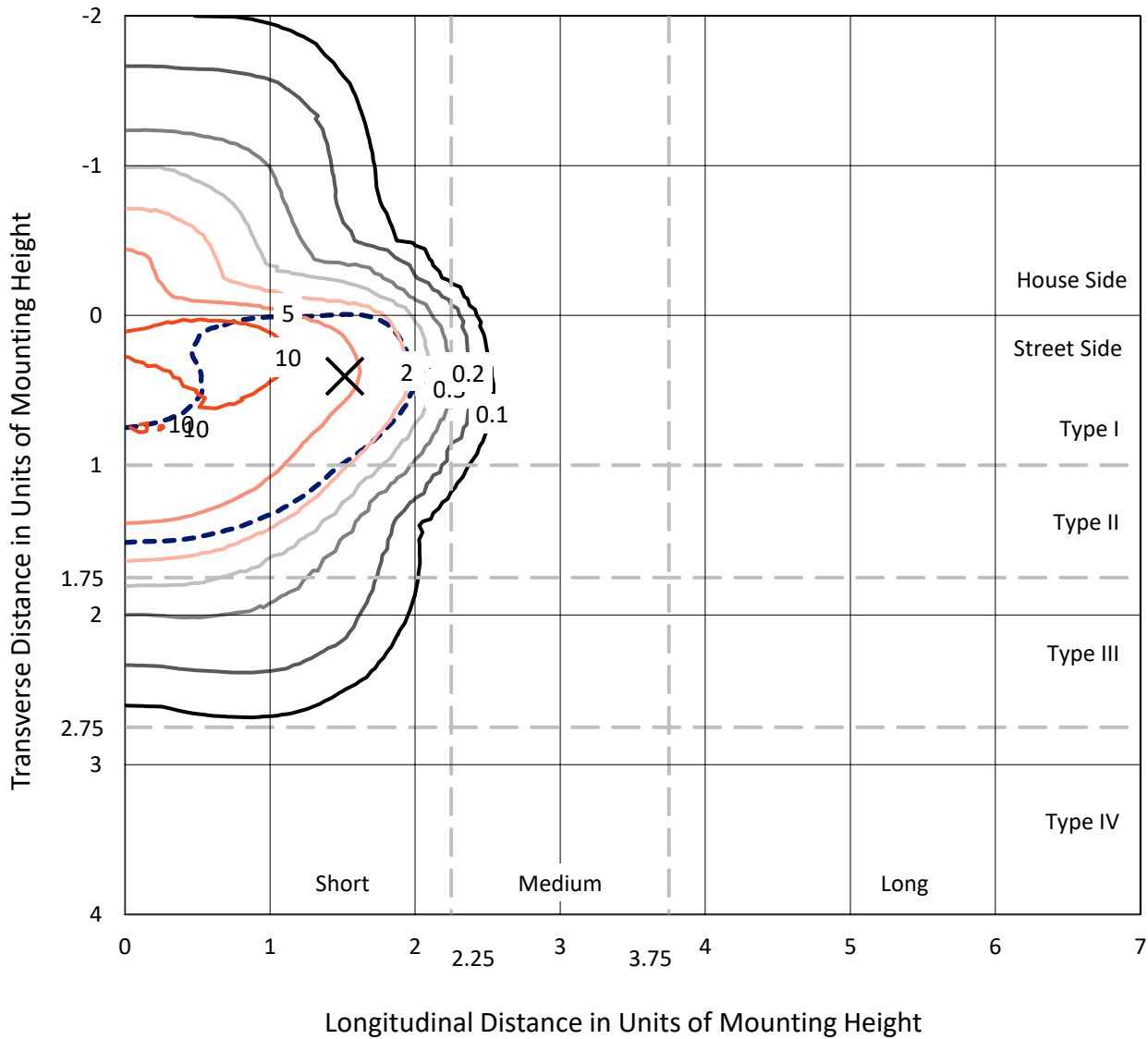
Lumens per Lamp: N/A  
Luminaire Lumens: 29826.4 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

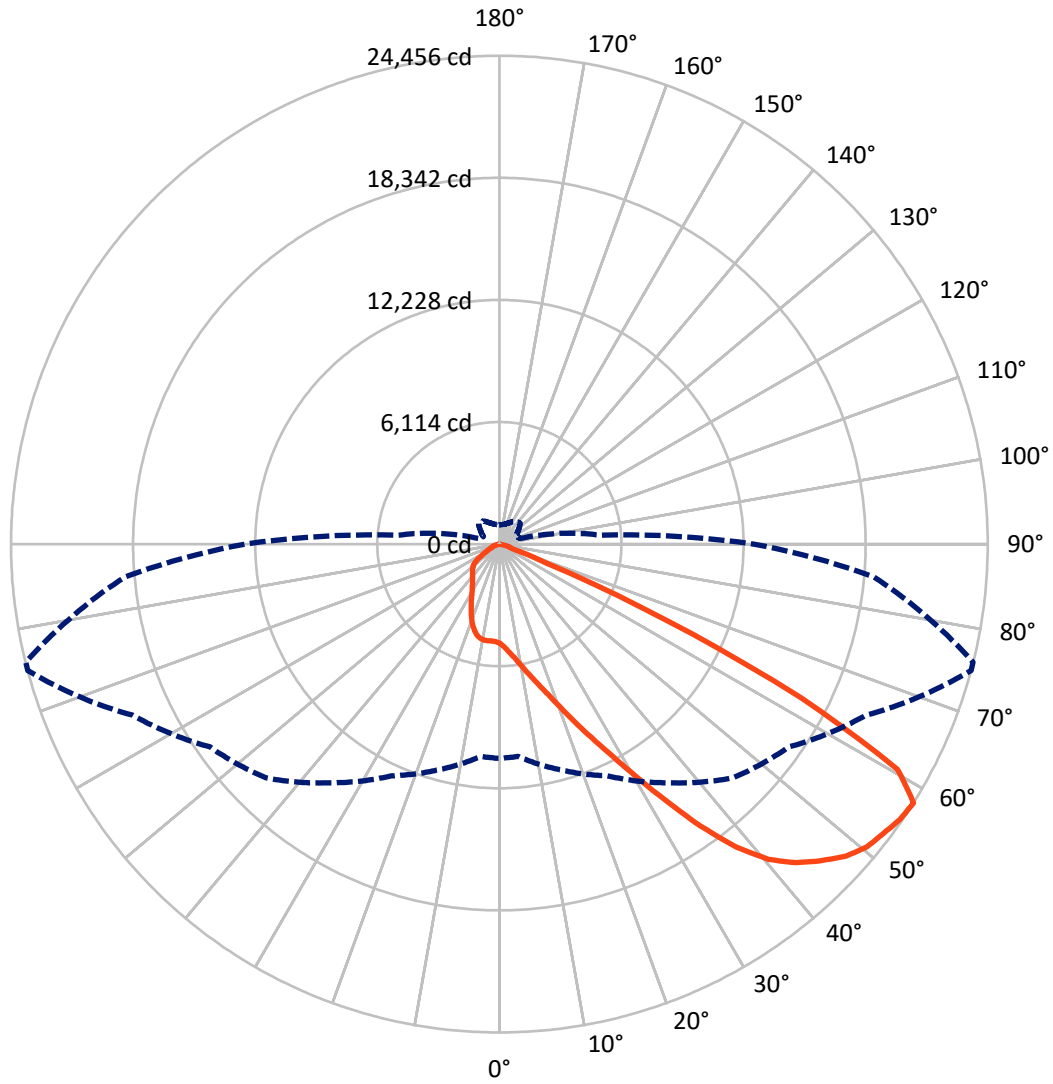
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4872.1	0.0	4872.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	24954.3	0.0	24954.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	29826.4	0.0	29826.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.2	1.7
10°-20°	1644.4	5.5
20°-30°	3011.3	10.1
30°-40°	4996.0	16.8
40°-50°	7630.1	25.6
50°-60°	8573.7	28.7
60°-70°	3162.3	10.6
70°-80°	302.3	1.0
80°-90°	0.2	0.0
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°	29826.4	100.0
0°-180°	29826.4	100.0

**Coefficient of Utilization**



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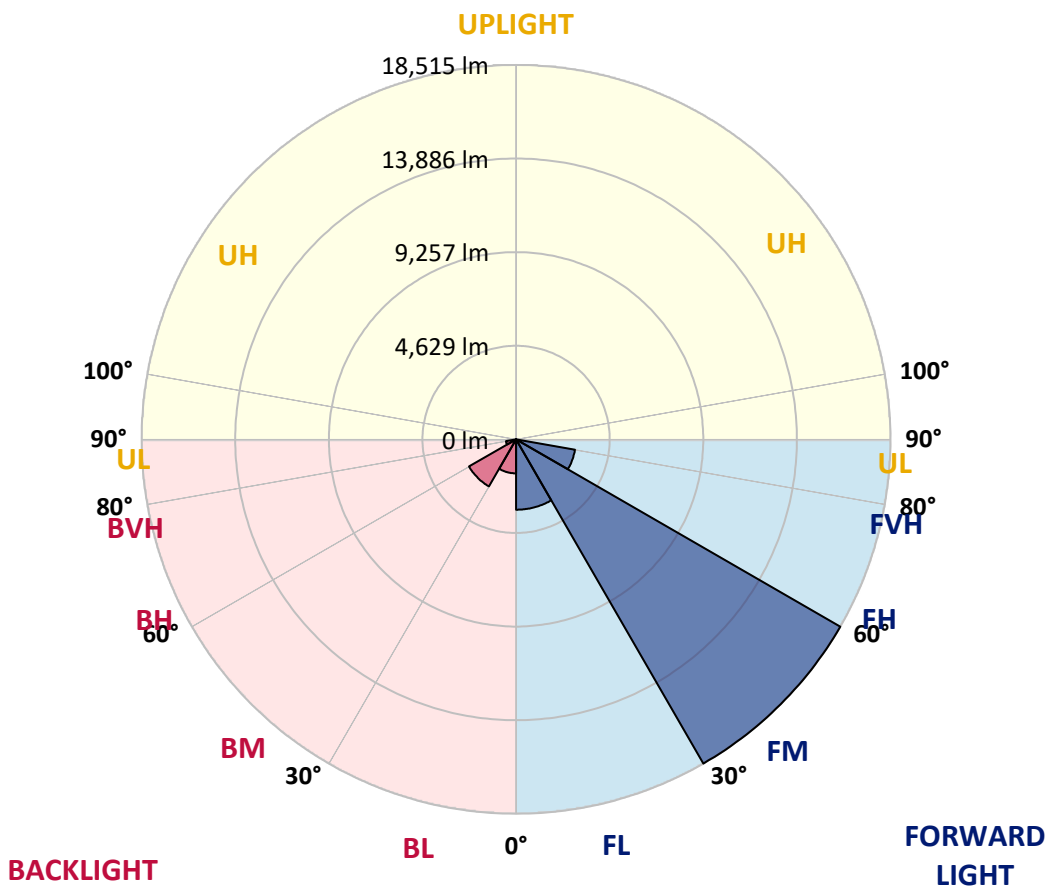
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3480.7	11.7			
FM (30°-60°)	18514.8	62.1			
FH (60°-80°)	2958.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1681.2	5.6	B3/2500		
BM (30°-60°)	2684.8	9.0	B3/5000		
BH (60°-80°)	506.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	0.1	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6
2.5°	5557.8	5615.4	5597.4	5561.4	5539.8	5464.2	5417.4	5280.6	5183.4	5172.6	5082.6
5°	6259.7	6248.9	6234.5	6191.3	6155.3	6036.5	5896.1	5665.7	5460.6	5435.4	5244.6
7.5°	6644.8	6652.0	6659.2	6652.0	6626.8	6536.8	6382.1	6112.1	5798.9	5777.3	5475.0
10°	6803.2	6817.6	6853.6	6922.0	6983.2	6976.0	6886.0	6608.8	6223.7	6187.7	5780.9
12.5°	6878.8	6896.8	6954.4	7084.0	7249.6	7379.2	7393.6	7145.2	6720.4	6662.8	6144.5
15°	6983.2	7001.2	7073.2	7242.4	7483.5	7739.1	7904.7	7746.3	7271.2	7210.0	6544.0
17.5°	7030.0	7055.2	7159.6	7382.8	7695.9	8088.3	8462.6	8448.2	7922.7	7875.9	7008.4
20°	7120.0	7138.0	7231.6	7472.7	7850.7	8415.8	9045.8	9272.5	8718.2	8649.8	7569.9
22.5°	7404.3	7411.5	7454.7	7605.9	7958.7	8653.4	9639.7	10233.6	9657.7	9567.7	8199.9
25°	7868.7	7865.1	7883.1	7908.3	8167.5	8894.6	10212.0	11317.1	10734.0	10636.8	8912.6
27.5°	8459.0	8459.0	8502.2	8430.2	8534.6	9193.3	10777.2	12562.6	11986.6	11849.8	9693.7
30°	9153.7	9150.1	9250.9	9135.8	9168.1	9664.9	11385.5	13919.6	13498.4	13329.3	10593.6
32.5°	10096.8	10075.2	10190.4	10032.0	9924.1	10377.6	12127.0	15337.8	15309.0	15049.9	11723.9
35°	11288.3	11252.3	11288.3	11133.5	10939.1	11374.7	13098.9	16752.5	17317.6	17044.0	13070.1
37.5°	12472.6	12587.8	12627.3	12361.0	12202.6	12638.1	14268.8	18019.5	19236.2	18951.8	14470.3
40°	13869.2	13833.2	13970.0	13671.2	13570.4	14052.8	15413.4	18962.6	20755.2	20485.2	15715.8
42.5°	14898.7	14963.5	15132.7	14967.1	14887.9	15341.4	16374.5	19513.4	21809.9	21543.5	16604.9
45°	16133.3	16180.1	16244.9	16108.1	16025.4	16471.7	17069.2	19754.5	22612.6	22324.6	17202.4
47.5°	17468.8	17504.8	17504.8	17224.0	16957.7	17141.2	17533.6	19891.3	23350.5	23073.3	17645.2
50°	18426.3	18444.3	18602.7	18404.7	17825.2	17540.8	17746.0	20024.5	23840.1	23580.9	17789.2
52.5°	17576.8	17555.2	18077.1	18487.5	18642.3	18077.1	18113.1	20218.9	24077.6	23854.5	17904.3
55°	14801.5	14765.5	15499.8	16496.9	17861.1	18584.7	18555.9	20334.1	24340.4	24203.6	18321.9
57.5°	10730.4	10669.2	11691.5	12800.1	14589.1	16550.9	17702.8	20269.3	24455.6	24444.8	18807.8
60°	6450.5	6400.1	7364.8	8531.0	9913.3	11885.8	13797.2	18156.3	22915.0	22936.6	17544.4
62.5°	3970.3	4017.1	4888.2	5482.2	5996.9	6590.8	7695.9	12213.4	16975.6	17116.0	12328.6
65°	2670.9	2706.9	3513.2	4261.9	4261.9	3484.4	2991.3	5838.5	9056.6	8819.0	5831.3
67.5°	1792.6	1832.2	2469.3	3344.0	3470.0	2429.7	1213.1	1742.2	2523.3	2447.7	1443.4
70°	1054.7	1097.9	1645.0	2292.9	2526.9	1691.8	809.9	737.9	716.3	694.7	561.5
72.5°	471.5	489.5	838.7	1166.3	1065.5	712.7	572.3	590.3	557.9	547.1	457.1
75°	144.0	151.2	216.0	252.0	255.6	255.6	345.6	464.3	439.1	442.7	352.8
77.5°	36.0	36.0	57.6	54.0	28.8	25.2	64.8	104.4	108.0	97.2	72.0
80°	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6
2.5°	5043.0	4949.4	4888.2	4801.8	4740.7	4675.9	4618.3	4571.5	4546.3	4539.1	4542.7
5°	5158.2	5010.6	4866.6	4701.1	4585.9	4477.9	4391.5	4323.1	4290.7	4279.9	4279.9
7.5°	5334.6	5129.4	4873.8	4614.7	4420.3	4251.1	4150.3	4074.7	4045.9	4038.7	4017.1
10°	5565.0	5284.2	4863.0	4459.9	4186.3	4009.9	3937.9	3916.3	3927.1	3930.7	3927.1
12.5°	5842.1	5446.2	4794.6	4233.1	3937.9	3830.0	3837.2	3894.8	3959.5	3991.9	3999.1
15°	6137.3	5593.8	4639.9	3963.1	3725.6	3722.0	3826.4	3959.5	4085.5	4139.5	4153.9
17.5°	6468.5	5712.5	4402.3	3675.2	3542.0	3646.4	3833.6	4038.7	4207.9	4297.9	4315.9
20°	6832.0	5809.7	4099.9	3405.2	3380.0	3567.2	3826.4	4078.3	4287.1	4387.9	4405.9
22.5°	7210.0	5878.1	3750.8	3156.8	3232.4	3477.2	3758.0	4002.7	4200.7	4315.9	4330.3
25°	7641.9	5885.3	3394.4	2948.1	3095.6	3354.8	3592.4	3794.0	3959.5	4060.3	4071.1
27.5°	8019.9	5798.9	3077.6	2778.9	2969.7	3203.6	3362.0	3473.6	3588.8	3646.4	3650.0
30°	8455.4	5647.8	2778.9	2642.1	2840.1	3016.5	3095.6	3120.8	3131.6	3142.4	3128.0
32.5°	8973.8	5464.2	2555.7	2508.9	2692.5	2811.3	2832.9	2782.5	2721.3	2634.9	2613.3
35°	9610.9	5298.6	2372.1	2379.3	2530.5	2602.5	2584.5	2476.5	2357.7	2253.3	2235.3
37.5°	10302.0	5158.2	2231.7	2253.3	2354.1	2404.5	2350.5	2231.7	2177.7	2087.8	2091.4
40°	10913.9	5043.0	2105.8	2127.4	2174.2	2220.9	2134.6	2055.4	2156.2	2149.0	2156.2
42.5°	11349.5	4945.8	1997.8	1987.0	2019.4	2051.8	1987.0	1947.4	2116.6	2069.8	2095.0
45°	11605.1	4855.8	1907.8	1843.0	1893.4	1951.0	1907.8	1857.4	1915.0	1699.0	1681.0
47.5°	11777.8	4805.4	1828.6	1702.6	1792.6	1893.4	1803.4	1681.0	1598.2	1411.0	1396.6
50°	11795.8	4780.3	1735.0	1558.6	1673.8	1781.8	1677.4	1508.2	1389.4	1306.6	1295.9
52.5°	11889.4	4830.6	1605.4	1375.0	1501.0	1673.8	1601.8	1432.6	1270.7	1198.7	1184.3
55°	12307.0	5043.0	1389.4	1123.1	1306.6	1591.0	1540.6	1277.9	1123.1	1079.9	1069.1
57.5°	12738.9	5086.2	1094.3	889.1	1137.5	1472.2	1407.4	1177.1	1025.9	975.5	964.7
60°	11648.3	4189.9	820.7	734.3	1004.3	1360.6	1303.1	1115.9	939.5	878.3	867.5
62.5°	7652.7	2264.1	651.5	622.7	845.9	1151.9	1187.9	1007.9	838.7	773.9	770.3
65°	3527.6	1051.1	500.3	493.1	662.3	917.9	1022.3	881.9	709.1	651.5	651.5
67.5°	961.1	521.9	392.4	363.6	449.9	615.5	745.1	658.7	503.9	435.5	432.0
70°	478.7	421.2	352.8	313.2	324.0	381.6	439.1	367.2	255.6	208.8	205.2
72.5°	392.4	345.6	298.8	266.4	244.8	234.0	226.8	183.6	118.8	90.0	86.4
75°	291.6	248.4	212.4	172.8	147.6	136.8	122.4	90.0	50.4	28.8	25.2
77.5°	64.8	61.2	57.6	43.2	39.6	32.4	25.2	18.0	7.2	0.0	0.0
80°	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)