

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: P642628

Luminaire Tested: GWS-SA6D-730-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33161.1 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

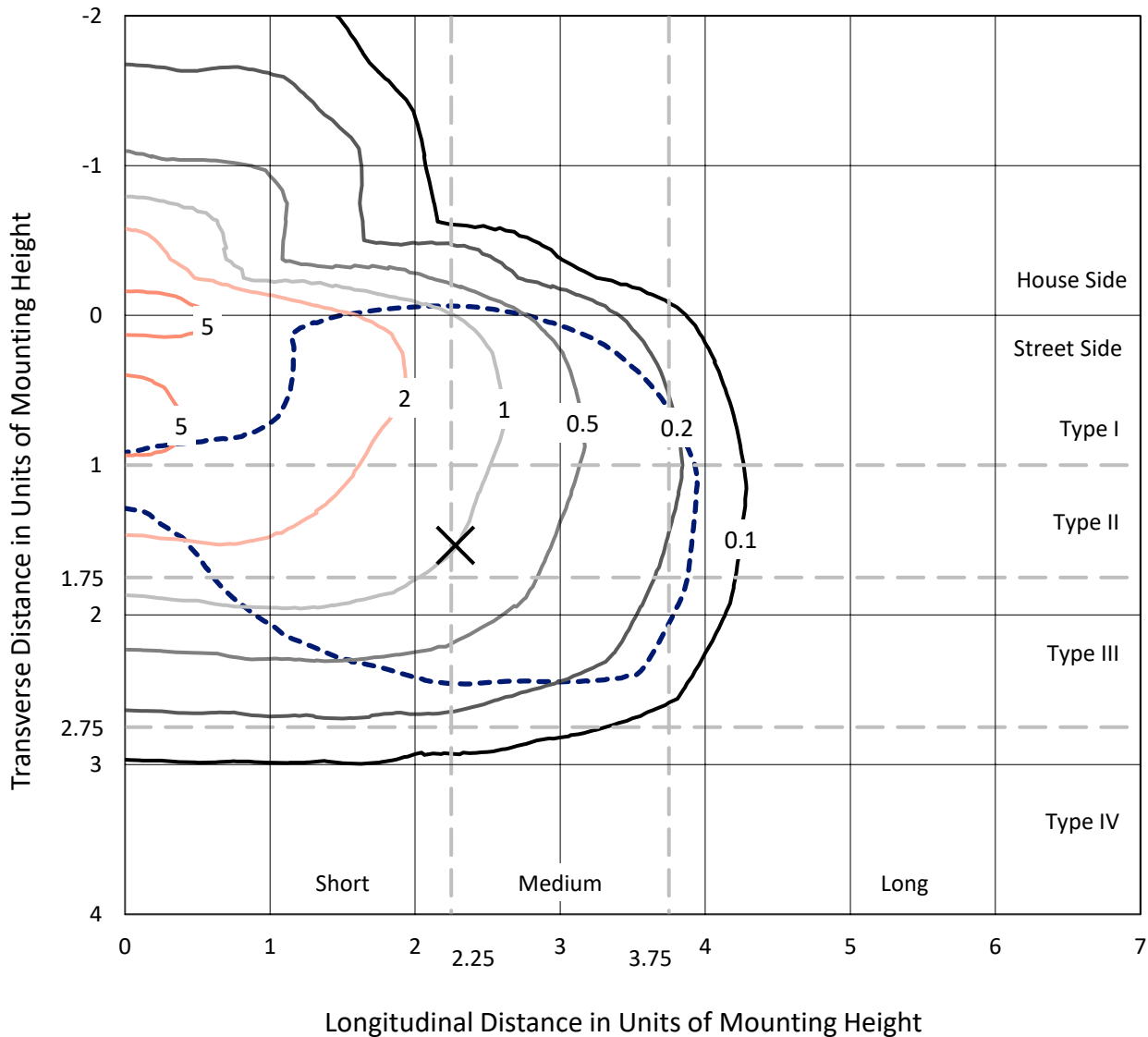
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

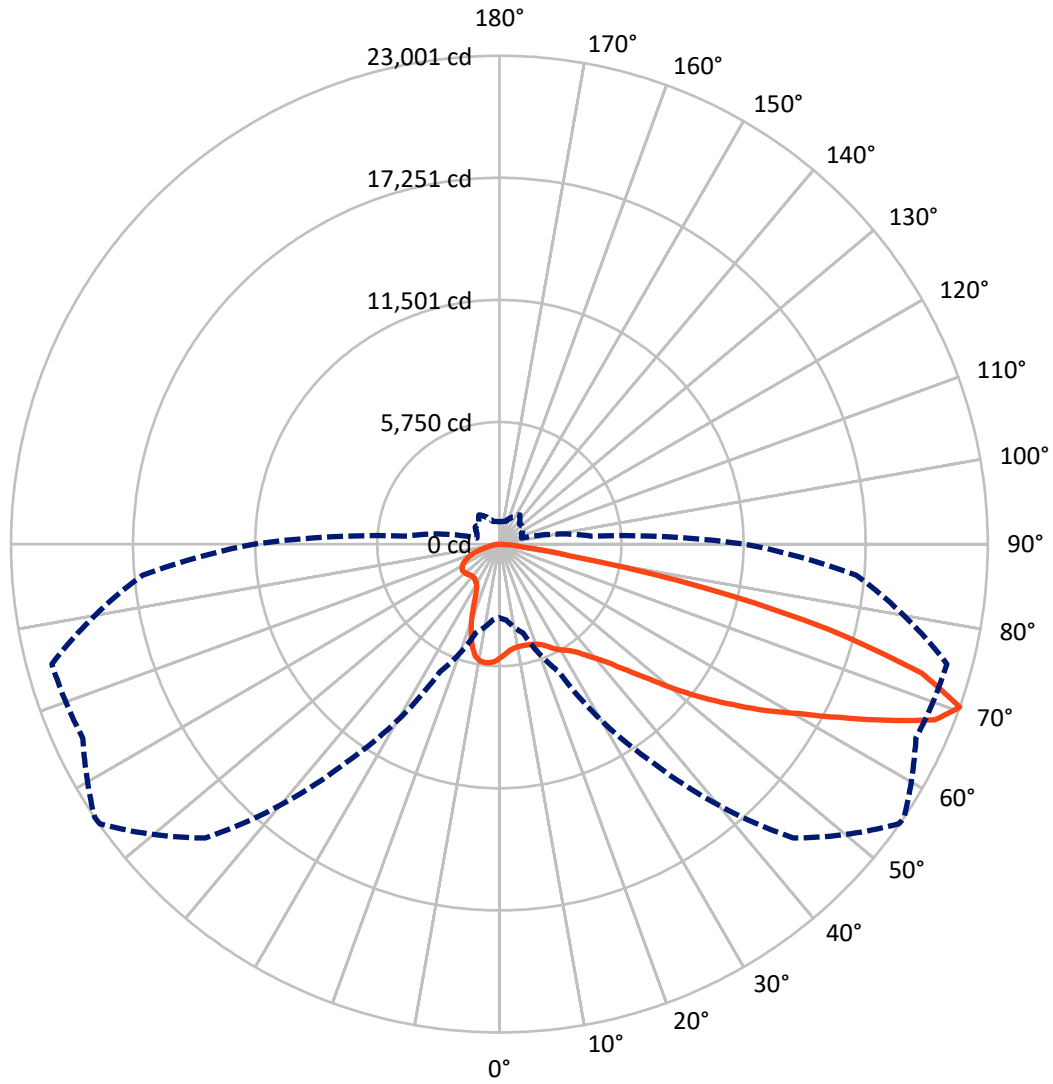
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6375.3	0.0	6375.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	26785.8	0.0	26785.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	33161.1	0.0	33161.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.3	1.5
10°-20°	1342.1	4.0
20°-30°	2218.9	6.7
30°-40°	3317.6	10.0
40°-50°	4937.0	14.9
50°-60°	7018.9	21.2
60°-70°	8693.2	26.2
70°-80°	4800.1	14.5
80°-90°	338.1	1.0
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°	33161.1	100.0
0°-180°	33161.1	100.0

Coefficient of Utilization



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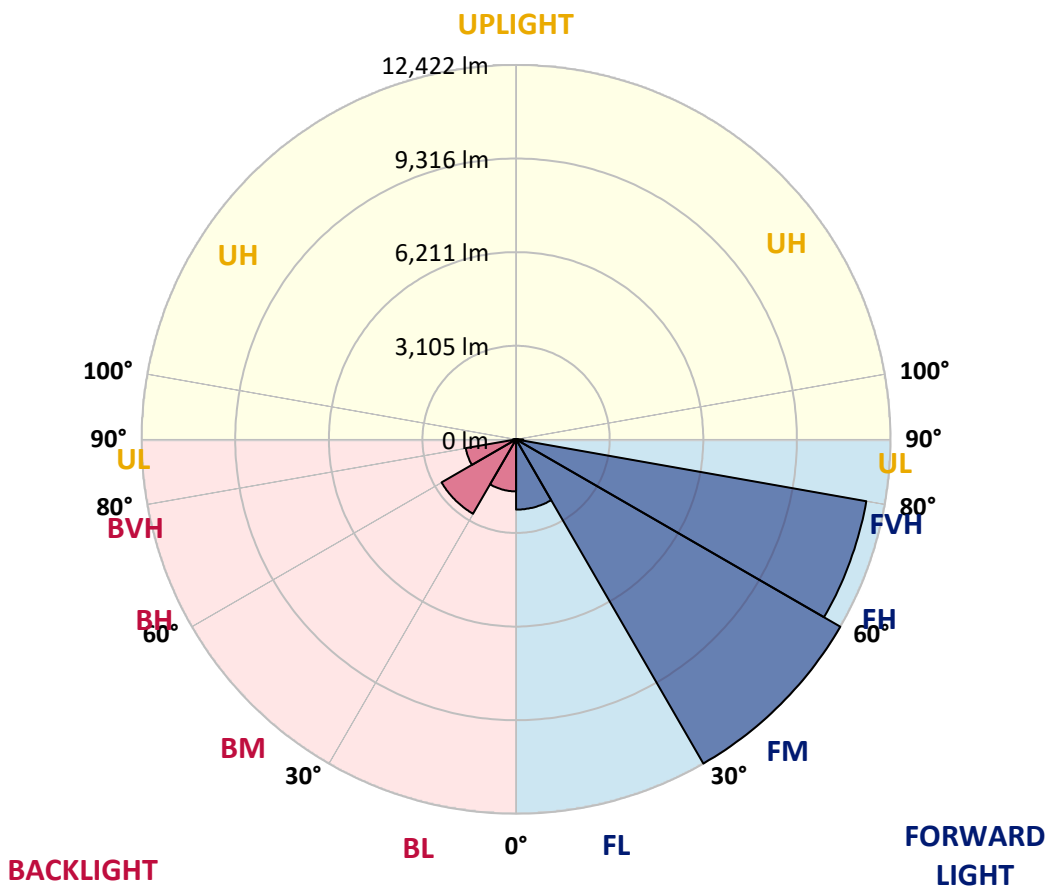
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.5	7.0			
FM (30°-60°)	12421.6	37.5			
FH (60°-80°)	11798.7	35.6			G4/12000
FVH (80°-90°)	234.9	0.7			G3/500
BL (0°-30°)	1725.8	5.2	B3/2500		
BM (30°-60°)	2851.8	8.6	B3/5000		
BH (60°-80°)	1694.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	103.1	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7
2.5°	5009.0	4980.9	5013.6	5030.0	5072.1	5132.9	5186.7	5189.0	5217.1	5284.9	5350.4
5°	4782.1	4768.1	4777.5	4826.6	4871.0	4948.2	5030.0	5037.0	5116.5	5249.8	5380.8
7.5°	4606.7	4588.0	4623.1	4686.3	4742.4	4828.9	4936.5	4945.8	5058.1	5259.2	5460.3
10°	4354.2	4340.2	4405.6	4489.8	4611.4	4754.1	4896.7	4908.4	5055.7	5320.0	5600.6
12.5°	4244.3	4244.3	4272.3	4351.9	4485.1	4674.6	4889.7	4908.4	5093.1	5413.5	5780.6
15°	4415.0	4426.7	4403.3	4398.6	4452.4	4632.5	4899.1	4927.1	5163.3	5509.4	5958.4
17.5°	4758.7	4770.4	4709.6	4613.8	4560.0	4672.2	4934.1	4964.5	5238.1	5614.6	6150.1
20°	5240.5	5254.5	5121.2	4973.9	4789.1	4786.8	5001.9	5030.0	5334.0	5729.2	6353.6
22.5°	5804.0	5813.4	5645.0	5411.2	5128.2	4999.6	5118.9	5146.9	5457.9	5888.2	6573.4
25°	6456.5	6484.5	6281.1	5942.0	5558.5	5291.9	5313.0	5345.7	5680.1	6101.0	6833.0
27.5°	7153.3	7188.4	6954.5	6580.4	6051.9	5614.6	5563.2	5591.2	5916.3	6232.0	6970.9
30°	7866.5	7892.3	7658.4	7230.5	6582.7	5979.4	5773.6	5790.0	6019.2	6295.1	7111.2
32.5°	8659.3	8638.2	8413.7	7920.3	7195.4	6416.7	5970.1	5965.4	6133.8	6421.4	7312.3
35°	9402.9	9433.3	9194.8	8649.9	7868.9	6956.9	6264.7	6246.0	6377.0	6627.2	7595.3
37.5°	10303.2	10293.9	10008.6	9419.3	8544.7	7473.7	6678.6	6645.9	6692.6	6947.5	7990.5
40°	10946.3	11011.8	10827.0	10277.5	9335.1	8109.7	7162.7	7090.2	7101.9	7342.7	8519.0
42.5°	11472.4	11533.2	11551.9	11201.2	10240.1	8895.5	7766.0	7693.5	7700.5	8041.9	9169.1
45°	11877.0	11958.8	12223.1	12120.2	11259.6	9802.8	8582.1	8507.3	8512.0	8890.8	9954.8
47.5°	12043.0	12131.9	12667.4	12912.9	12342.3	10887.8	9597.0	9487.1	9503.5	9922.0	10852.7
50°	11989.2	12108.5	12833.4	13523.3	13249.7	11991.6	10810.7	10733.5	10670.3	11278.3	11827.9
52.5°	11526.2	11657.2	12817.0	13911.4	13990.9	13034.5	12064.1	12019.6	12005.6	12718.8	12917.6
55°	10162.9	10382.7	12253.5	14014.3	14570.9	14016.7	13422.7	13347.9	13420.4	14262.2	14019.0
57.5°	9407.6	9571.3	11149.7	13899.7	15045.6	14952.0	14779.0	14786.0	14867.9	15938.9	15354.3
60°	8977.3	9169.1	10537.1	13586.4	15501.6	16088.5	16198.4	16198.4	16345.8	17746.5	16710.6
62.5°	8406.7	8600.8	9964.1	12983.1	15922.5	17426.1	17982.7	17975.7	18034.1	19685.1	18036.5
65°	7249.2	7429.3	8813.6	12031.3	16128.3	18899.4	20010.1	19989.1	19872.1	21410.8	18913.4
67.5°	5263.9	5434.6	6751.1	10221.4	15387.0	20087.3	22098.4	22107.7	21408.5	22498.2	18960.2
70°	3470.3	3587.2	4340.2	6638.9	12513.0	19575.2	22972.9	23001.0	21644.7	21820.1	16874.3
72.5°	2165.4	2247.3	2710.3	3959.0	7394.2	15494.6	20728.0	20805.2	19472.3	19175.3	13864.7
75°	1438.1	1494.3	1802.9	2308.0	3421.2	8385.7	15756.5	16004.4	15606.8	15031.6	9660.1
77.5°	865.2	912.0	1148.2	1466.2	1515.3	3276.2	9197.1	9837.9	9894.0	7847.8	4045.5
80°	395.2	449.0	633.7	837.2	806.8	1141.2	3243.4	3393.1	4003.4	2492.8	1276.8
82.5°	233.8	257.2	420.9	416.2	343.8	554.2	1166.9	1197.3	1017.2	912.0	544.9
85°	93.5	109.9	177.7	156.7	126.3	180.1	439.6	460.7	442.0	397.5	201.1
87.5°	0.0	0.0	0.0	0.0	2.3	4.7	39.8	42.1	60.8	109.9	60.8
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°	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7
2.5°	5392.5	5378.4	5448.6	5502.4	5525.8	5549.1	5528.1	5521.1	5521.1	5474.3	5450.9
5°	5450.9	5457.9	5553.8	5598.2	5598.2	5579.5	5523.4	5483.7	5469.6	5408.8	5392.5
7.5°	5560.8	5591.2	5680.1	5677.8	5612.3	5509.4	5369.1	5261.5	5163.3	5121.2	5095.5
10°	5740.9	5780.6	5841.4	5743.2	5560.8	5289.6	4992.6	4758.7	4618.4	4506.2	4506.2
12.5°	5946.7	5984.1	5972.4	5745.6	5369.1	4861.6	4433.7	4164.8	3968.3	3865.5	3865.5
15°	6152.5	6182.9	6056.6	5638.0	4969.2	4293.4	3825.7	3503.0	3332.3	3236.4	3236.4
17.5°	6360.6	6358.2	6091.7	5390.1	4447.7	3664.4	3206.0	2955.8	2897.3	2881.0	2878.6
20°	6561.7	6507.9	6047.2	4976.2	3842.1	3030.6	2740.7	2757.0	2843.6	2881.0	2885.6
22.5°	6788.5	6655.2	5916.3	4447.7	3154.6	2591.0	2609.7	2745.3	2871.6	2927.7	2934.8
25°	7020.0	6781.5	5696.5	3828.0	2579.3	2429.6	2574.6	2726.6	2869.3	2941.8	2948.8
27.5°	7113.6	6781.5	5322.3	3110.1	2273.0	2361.8	2520.8	2668.2	2817.8	2902.0	2918.4
30°	7190.7	6723.0	4798.5	2462.4	2146.7	2296.4	2434.3	2570.0	2717.3	2820.2	2838.9
32.5°	7298.3	6671.6	4164.8	2069.5	2088.2	2233.2	2329.1	2443.7	2577.0	2644.8	2637.8
35°	7424.6	6592.1	3400.1	1882.5	2039.1	2179.4	2247.3	2315.1	2254.3	2251.9	2258.9
37.5°	7604.6	6521.9	2733.6	1798.3	2006.4	2142.0	2198.1	2053.2	1969.0	1933.9	1919.9
40°	7864.2	6493.9	2156.1	1749.2	2001.7	2139.7	2099.9	1875.4	1760.9	1639.3	1636.9
42.5°	8191.6	6472.8	1781.9	1725.8	2018.1	2193.5	1964.3	1758.5	1522.3	1468.5	1463.9
45°	8612.5	6440.1	1594.8	1721.1	2057.8	2235.6	1950.3	1597.2	1435.8	1412.4	1412.4
47.5°	9120.0	6388.6	1510.6	1721.1	2102.3	2216.9	1908.2	1562.1	1396.1	1421.8	1438.1
50°	9702.2	6323.2	1466.2	1716.4	2146.7	2216.9	1819.3	1555.1	1386.7	1520.0	1573.8
52.5°	10324.3	6248.3	1435.8	1697.7	2177.1	2219.2	1824.0	1578.5	1396.1	1543.4	1587.8
55°	11011.8	6236.6	1393.7	1658.0	2186.5	2158.4	1835.7	1629.9	1410.1	1398.4	1400.7
57.5°	11879.3	6377.0	1363.3	1599.5	2149.0	2034.5	1859.1	1667.3	1393.7	1396.1	1412.4
60°	12786.6	6641.2	1389.0	1543.4	2071.9	1917.5	1875.4	1648.6	1314.2	1276.8	1281.5
62.5°	13558.3	6842.3	1410.1	1517.7	1959.6	1814.6	1859.1	1606.5	1269.8	1260.4	1281.5
65°	13881.0	6676.3	1358.6	1463.9	1795.9	1688.4	1824.0	1552.7	1232.4	1197.3	1199.6
67.5°	13523.3	5897.6	1258.1	1344.6	1611.2	1527.0	1767.9	1482.6	1180.9	1138.8	1129.5
70°	11551.9	4333.1	1085.0	1155.2	1386.7	1337.6	1681.3	1391.4	1099.1	1068.7	1047.6
72.5°	9309.4	3068.0	900.3	919.0	1087.4	1127.1	1531.7	1276.8	1005.5	919.0	888.6
75°	6479.8	1926.9	750.6	731.9	785.7	860.5	1194.9	1059.3	867.6	776.4	748.3
77.5°	2787.4	989.2	587.0	577.6	523.8	596.3	916.7	883.9	727.3	622.0	605.7
80°	933.0	572.9	423.3	406.9	348.4	418.6	645.4	706.2	570.6	460.7	432.6
82.5°	467.7	332.1	268.9	243.2	233.8	264.2	381.2	439.6	395.2	318.0	268.9
85°	229.2	189.4	147.3	145.0	121.6	114.6	159.0	187.1	177.7	131.0	123.9
87.5°	84.2	74.8	46.8	37.4	23.4	16.4	9.4	9.4	7.0	7.0	7.0
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)