

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: P641367

Luminaire Tested: GWS-SA5F-760-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41748.9 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

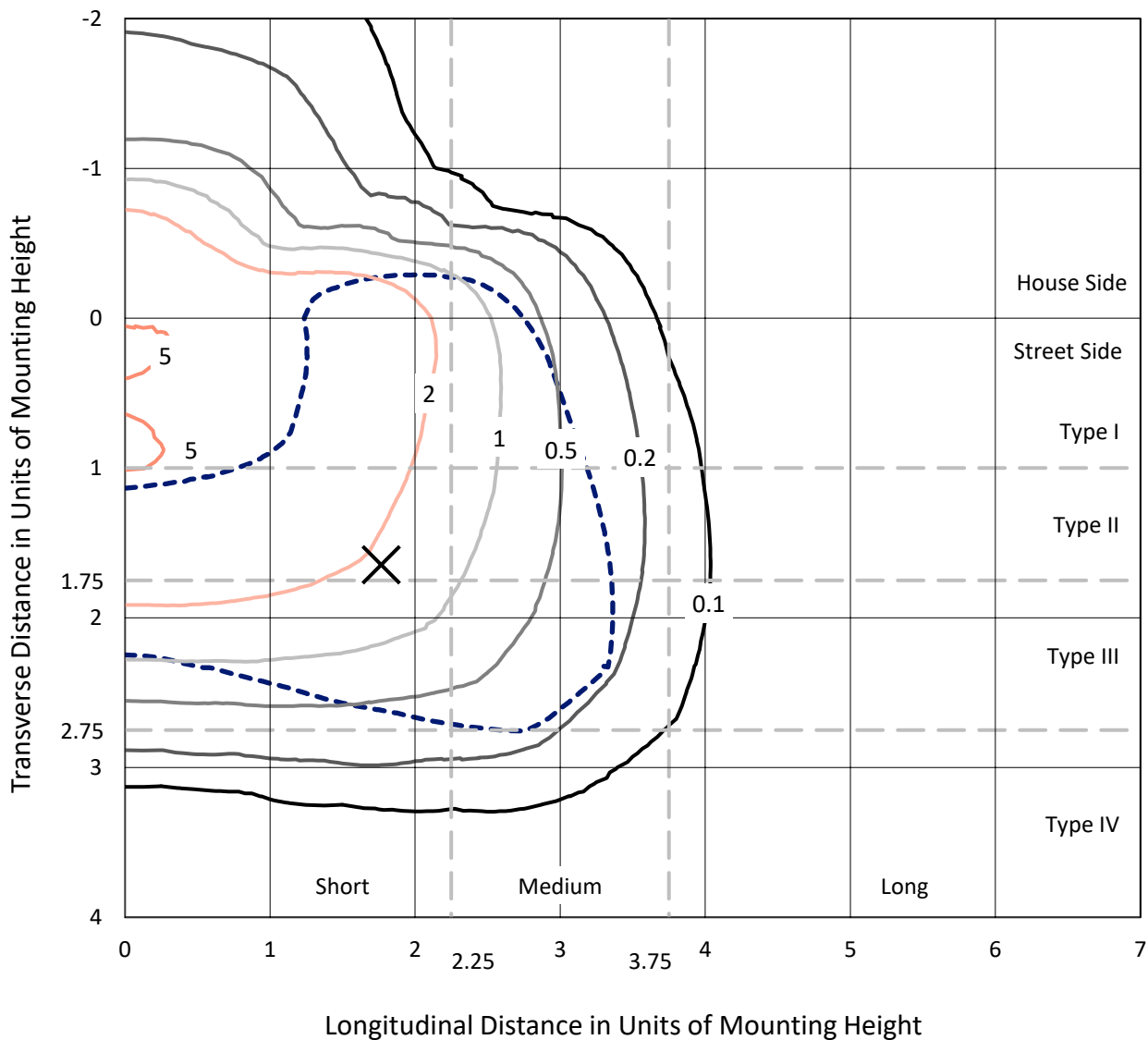
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

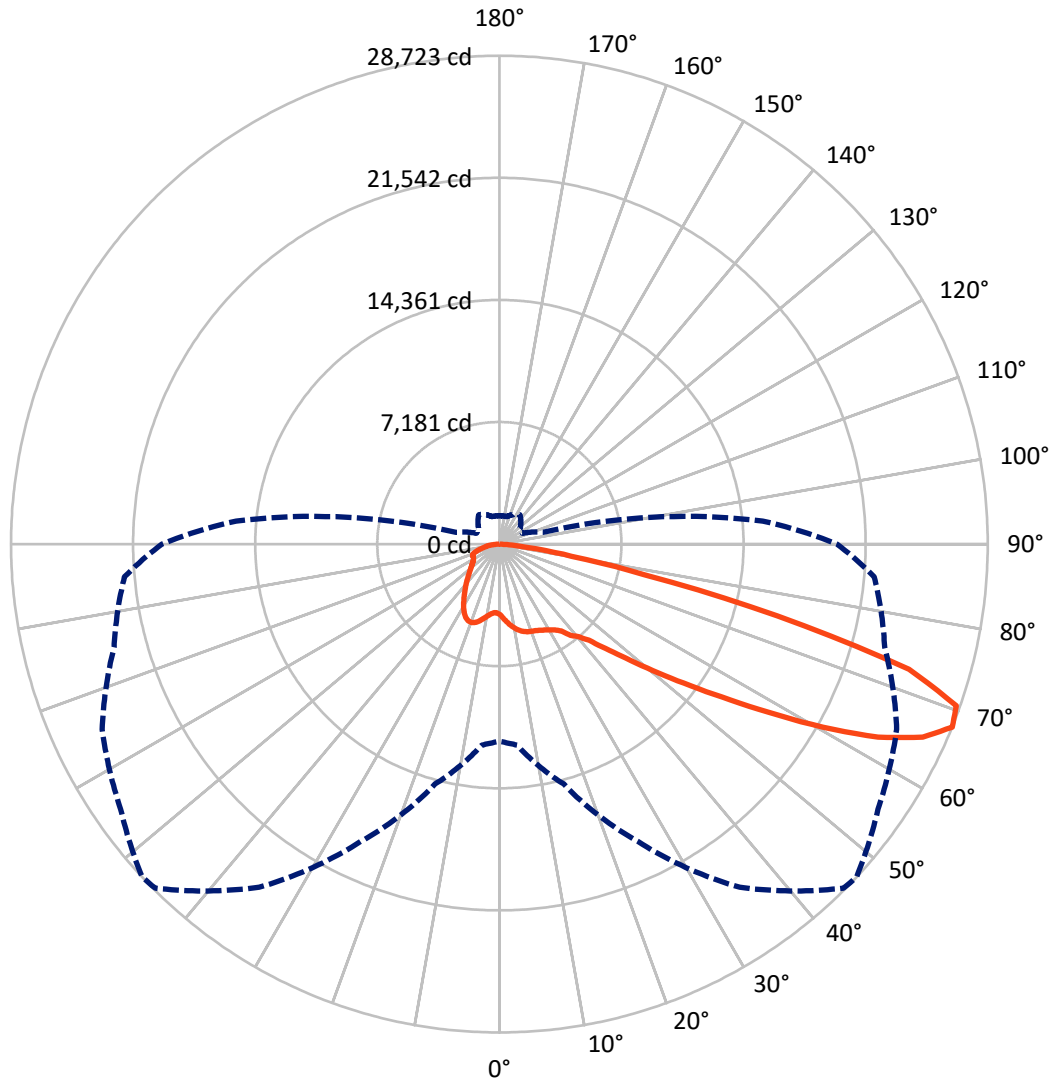
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9514.9	0.0	9514.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	32234.0	0.0	32234.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	41748.9	0.0	41748.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	1.0
10°-20°	1409.2	3.4
20°-30°	2395.3	5.7
30°-40°	3508.8	8.4
40°-50°	5346.1	12.8
50°-60°	9565.2	22.9
60°-70°	12763.8	30.6
70°-80°	5772.1	13.8
80°-90°	565.5	1.4
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°	41748.9	100.0
0°-180°	41748.9	100.0

Coefficient of Utilization



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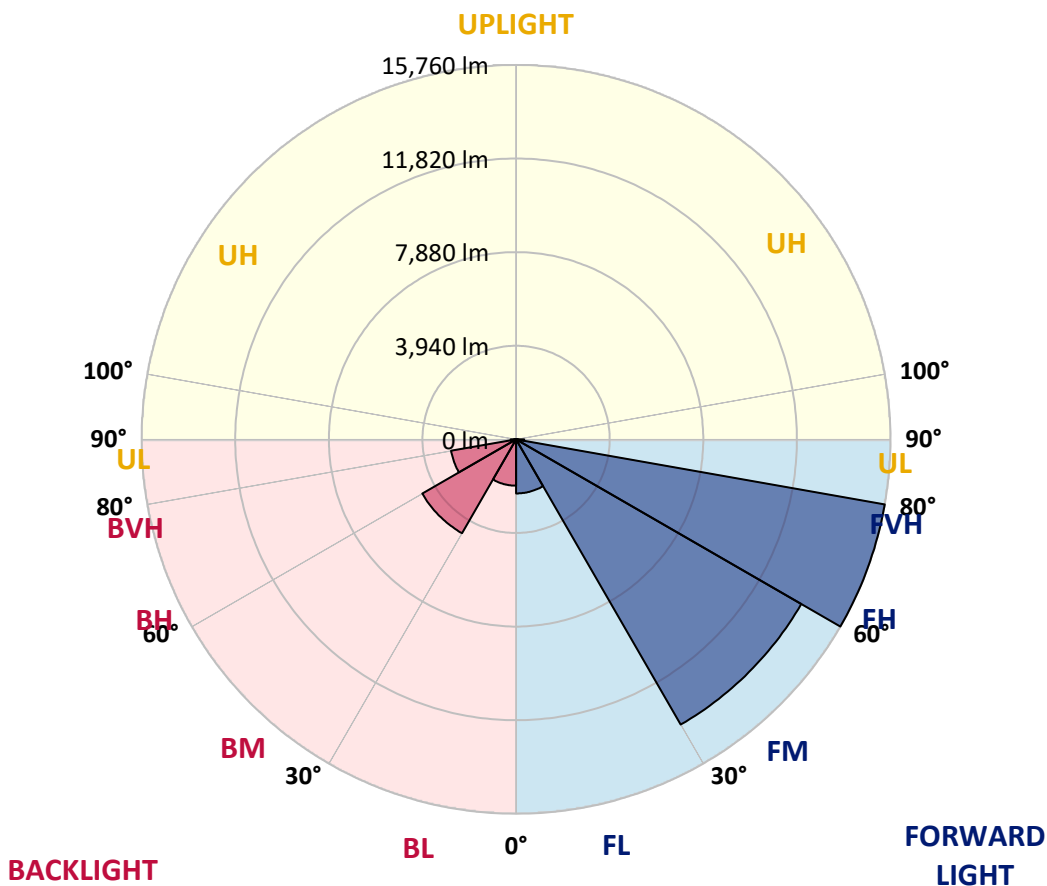
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.8	5.5			
FM (30°-60°)	13861.1	33.2			
FH (60°-80°)	15759.7	37.7			G5
FVH (80°-90°)	336.4	0.8			G3/500
BL (0°-30°)	1950.6	4.7	B3/2500		
BM (30°-60°)	4559.0	10.9	B3/5000		
BH (60°-80°)	2776.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	229.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6
2.5°	4413.3	4428.4	4425.4	4401.3	4386.2	4359.0	4362.0	4319.8	4256.4	4214.1	4165.8
5°	4802.8	4826.9	4796.7	4757.5	4697.1	4609.6	4600.5	4503.9	4383.2	4298.6	4211.1
7.5°	5140.8	5155.9	5119.7	5053.3	4965.8	4848.0	4826.9	4712.2	4561.3	4428.4	4301.6
10°	5403.5	5421.6	5373.3	5285.7	5171.0	5053.3	5038.2	4920.5	4760.5	4603.5	4443.5
12.5°	5626.9	5632.9	5581.6	5463.8	5340.1	5219.3	5204.2	5095.6	4947.6	4787.7	4612.6
15°	5756.7	5759.7	5696.3	5566.5	5448.8	5343.1	5334.0	5240.5	5104.6	4953.7	4766.5
17.5°	5747.6	5753.6	5708.4	5593.7	5491.0	5427.6	5418.6	5358.2	5252.5	5116.7	4929.5
20°	5635.9	5641.9	5611.8	5536.3	5482.0	5463.8	5466.9	5448.8	5385.4	5273.7	5083.5
22.5°	5548.4	5557.4	5530.3	5475.9	5469.9	5512.1	5521.2	5530.3	5500.1	5400.5	5216.3
25°	5590.6	5605.7	5563.5	5488.0	5500.1	5593.7	5611.8	5641.9	5617.8	5533.3	5373.3
27.5°	5883.4	5892.5	5783.8	5629.9	5593.7	5693.3	5720.4	5768.7	5750.6	5672.1	5548.4
30°	6562.7	6556.6	6324.2	5946.8	5795.9	5835.1	5856.3	5925.7	5931.7	5880.4	5762.7
32.5°	7519.6	7489.4	7130.2	6529.4	6091.7	5995.1	6019.3	6112.9	6182.3	6128.0	5968.0
35°	8530.8	8503.7	8108.2	7404.9	6638.1	6303.0	6275.9	6348.3	6454.0	6303.0	6073.6
37.5°	9493.8	9451.5	9047.0	8177.7	7311.3	6843.4	6804.1	6731.7	6668.3	6378.5	6203.4
40°	10562.4	10514.1	10160.9	9176.8	8053.9	7257.0	7157.3	6870.6	6813.2	6629.1	6541.5
42.5°	11703.5	11703.5	11410.7	10441.7	8950.4	7848.6	7718.8	7287.1	7347.5	7226.8	7124.1
45°	12844.6	12877.8	12645.3	11715.6	10148.9	8965.5	8757.2	8144.5	8289.3	8235.0	8183.7
47.5°	13816.6	13880.0	13834.7	13016.6	11616.0	10324.0	10007.0	9370.0	9681.0	9810.8	9955.7
50°	14864.1	14933.5	14888.2	14565.2	13333.6	11969.1	11685.4	11027.3	11561.6	11951.0	12425.0
52.5°	16418.7	16518.3	16141.0	16017.2	15419.5	13837.7	13584.1	12835.5	13804.5	14450.5	15507.1
55°	17731.8	17728.8	17596.0	17879.8	17659.4	16122.9	15842.1	15162.9	16400.6	17085.8	18631.4
57.5°	18341.6	18414.1	18869.9	19672.9	20113.6	18915.2	18646.5	17952.2	19186.9	19543.1	21212.4
60°	18655.6	18746.1	19627.6	21215.4	22401.8	21964.1	21858.4	20973.9	21668.2	21626.0	23388.9
62.5°	18214.8	18396.0	19811.7	21921.8	24034.9	25028.0	24994.8	23657.5	23778.3	23364.7	24738.2
65°	16192.3	16388.5	18610.3	21568.6	24967.7	27358.5	27367.5	26087.6	25399.3	24210.0	24511.8
67.5°	11579.7	11860.5	14607.5	19298.5	24638.6	28617.3	28722.9	27189.4	25779.7	23461.3	22133.1
70°	6312.1	6517.4	8669.7	14027.9	21674.3	28315.4	28511.6	26658.1	24101.3	20294.7	17037.5
72.5°	2867.8	2934.2	4033.0	7697.7	14806.7	24373.0	25194.1	23790.4	19793.6	14990.9	10834.1
75°	1313.1	1343.3	1756.9	3682.8	7736.9	16310.0	16886.6	17719.8	13774.3	9466.6	5648.0
77.5°	824.1	833.2	999.2	1684.4	3857.9	8141.4	8748.2	10550.4	8066.0	4685.0	2360.6
80°	486.0	495.1	621.9	911.6	1811.2	3725.1	4301.6	4171.8	3791.5	2022.5	1074.7
82.5°	244.5	253.6	359.2	519.2	987.1	1482.2	1744.8	1753.9	1412.8	1095.8	606.8
85°	87.5	90.6	117.7	205.3	419.6	489.0	546.4	667.1	691.3	636.9	292.8
87.5°	0.0	0.0	3.0	6.0	12.1	48.3	51.3	96.6	202.3	226.4	117.7
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°	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6
2.5°	4150.7	4105.4	4090.3	4075.2	4051.1	4042.0	4023.9	4005.8	4005.8	3987.7	3978.6
5°	4171.8	4111.5	4072.2	4054.1	4039.0	4048.1	4048.1	4054.1	4075.2	4063.2	4069.2
7.5°	4247.3	4177.9	4123.5	4108.5	4108.5	4144.7	4168.8	4199.0	4238.3	4244.3	4244.3
10°	4380.1	4298.6	4241.3	4232.2	4247.3	4298.6	4334.9	4371.1	4419.4	4422.4	4428.4
12.5°	4525.0	4443.5	4386.2	4398.2	4413.3	4479.8	4519.0	4549.2	4597.5	4597.5	4594.5
15°	4676.0	4585.4	4537.1	4561.3	4606.5	4682.0	4688.0	4691.1	4715.2	4709.2	4706.2
17.5°	4832.9	4736.3	4700.1	4736.3	4784.6	4820.9	4790.7	4748.4	4739.4	4727.3	4721.2
20°	4986.9	4887.3	4872.2	4899.3	4914.4	4884.3	4790.7	4712.2	4676.0	4657.9	4651.8
22.5°	5119.7	5035.2	5026.1	5026.1	4950.7	4845.0	4706.2	4600.5	4552.2	4528.0	4522.0
25°	5276.7	5198.2	5183.1	5101.6	4908.4	4715.2	4528.0	4431.5	4392.2	4380.1	4383.2
27.5°	5460.8	5406.5	5358.2	5125.8	4787.7	4485.8	4274.5	4232.2	4217.1	4232.2	4241.3
30°	5687.2	5632.9	5524.2	5095.6	4594.5	4186.9	3984.7	3981.7	4026.9	4066.2	4072.2
32.5°	5871.4	5847.2	5669.1	4999.0	4322.8	3857.9	3685.8	3697.9	3779.4	3833.7	3842.8
35°	6016.3	6055.5	5789.9	4839.0	3999.8	3547.0	3411.1	3417.2	3462.4	3537.9	3540.9
37.5°	6221.5	6354.4	5898.5	4594.5	3628.5	3278.3	3154.5	3109.3	3103.2	3124.4	3130.4
40°	6635.1	6834.3	5977.0	4238.3	3269.3	3036.8	2898.0	2810.4	2734.9	2677.6	2659.5
42.5°	7260.0	7489.4	6022.3	3806.6	2949.3	2798.3	2641.4	2529.7	2396.8	2276.1	2233.8
45°	8407.1	8482.5	6022.3	3347.7	2665.5	2575.0	2418.0	2285.2	2116.1	1974.2	1944.0
47.5°	10242.4	10001.0	6028.3	2904.0	2415.0	2378.7	2242.9	2092.0	1904.8	1787.1	1769.0
50°	13007.6	12159.3	6152.1	2535.7	2206.7	2212.7	2113.1	1947.1	1778.0	1690.5	1675.4
52.5°	16141.0	14818.8	6484.2	2264.0	2031.6	2076.9	2022.5	1862.5	1711.6	1636.1	1621.0
55°	19087.2	17263.9	6767.9	2070.8	1883.7	1962.2	1959.1	1811.2	1675.4	1599.9	1590.9
57.5°	21592.8	18939.3	6725.7	1913.9	1756.9	1856.5	1901.8	1778.0	1651.2	1587.8	1578.8
60°	23150.4	19826.8	6124.9	1769.0	1660.3	1781.0	1868.6	1769.0	1663.3	1648.2	1651.2
62.5°	23826.6	19663.8	4971.8	1660.3	1596.9	1744.8	1904.8	1832.4	1775.0	1811.2	1832.4
65°	22776.1	18263.1	3658.7	1578.8	1536.5	1753.9	1989.3	1932.0	1775.0	1799.1	1808.2
67.5°	19860.0	15546.3	2644.4	1497.3	1461.1	1781.0	2110.1	1916.9	1672.4	1672.4	1654.2
70°	14311.7	11181.3	1919.9	1415.8	1385.6	1741.8	2116.1	1814.2	1554.6	1545.6	1500.3
72.5°	8612.4	6595.9	1497.3	1325.2	1270.9	1545.6	1983.3	1693.5	1439.9	1364.5	1310.1
75°	4473.7	3305.5	1255.8	1225.6	1089.8	1310.1	1814.2	1506.3	1231.6	1165.2	1135.0
77.5°	1916.9	1545.6	1077.7	1092.8	905.6	1101.8	1464.1	1304.1	1092.8	1008.2	981.1
80°	944.9	878.4	851.3	875.4	724.5	851.3	1261.8	1141.1	926.7	830.1	790.9
82.5°	540.3	513.2	612.8	621.9	516.2	712.4	1065.6	966.0	766.7	661.1	597.7
85°	250.6	268.7	371.3	374.3	320.0	489.0	697.3	543.4	407.5	338.1	323.0
87.5°	99.6	117.7	163.0	160.0	93.6	90.6	60.4	33.2	27.2	24.1	21.1
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)