

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: P640192

Luminaire Tested: GWS-SA5D-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29575 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

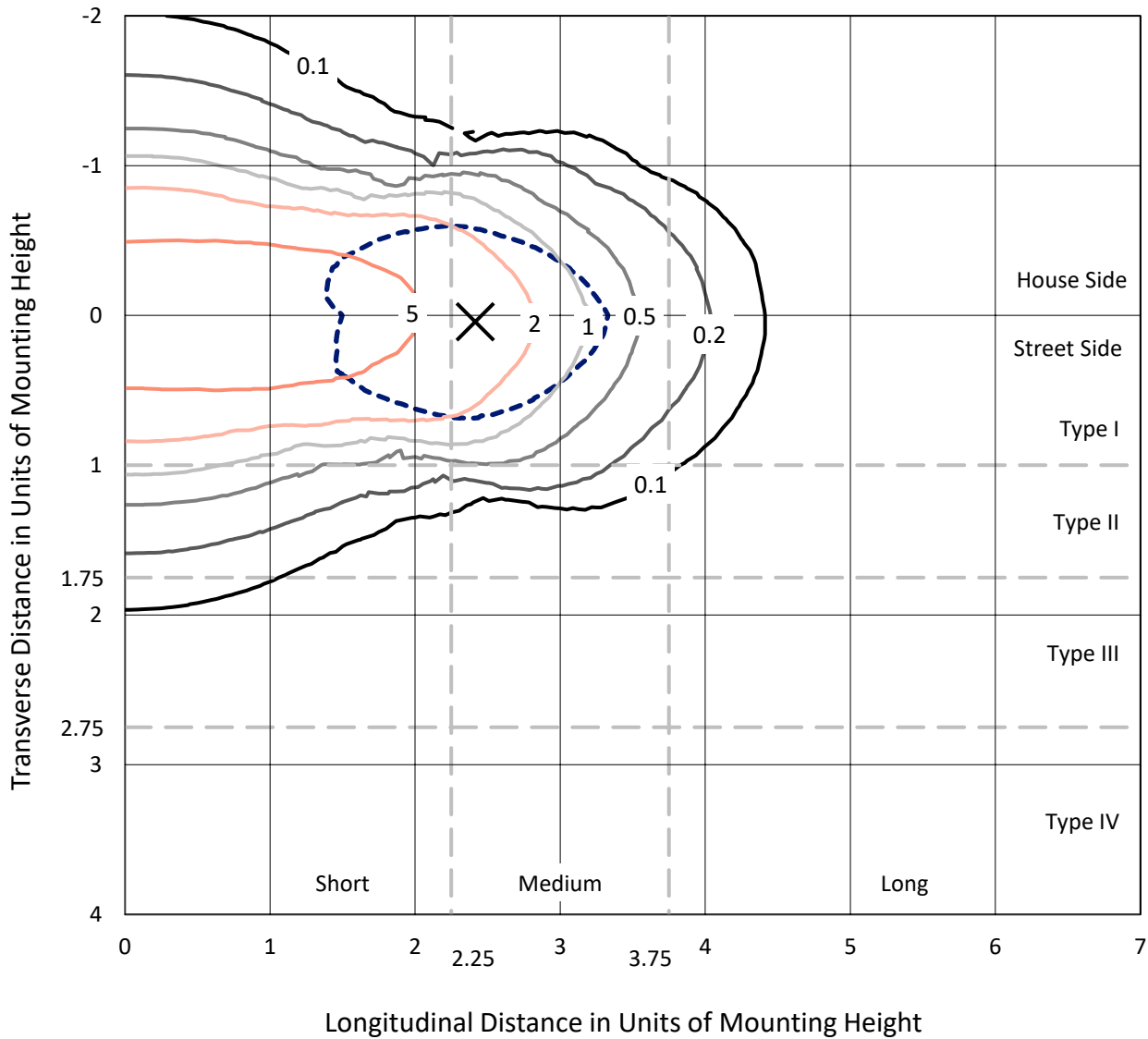
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

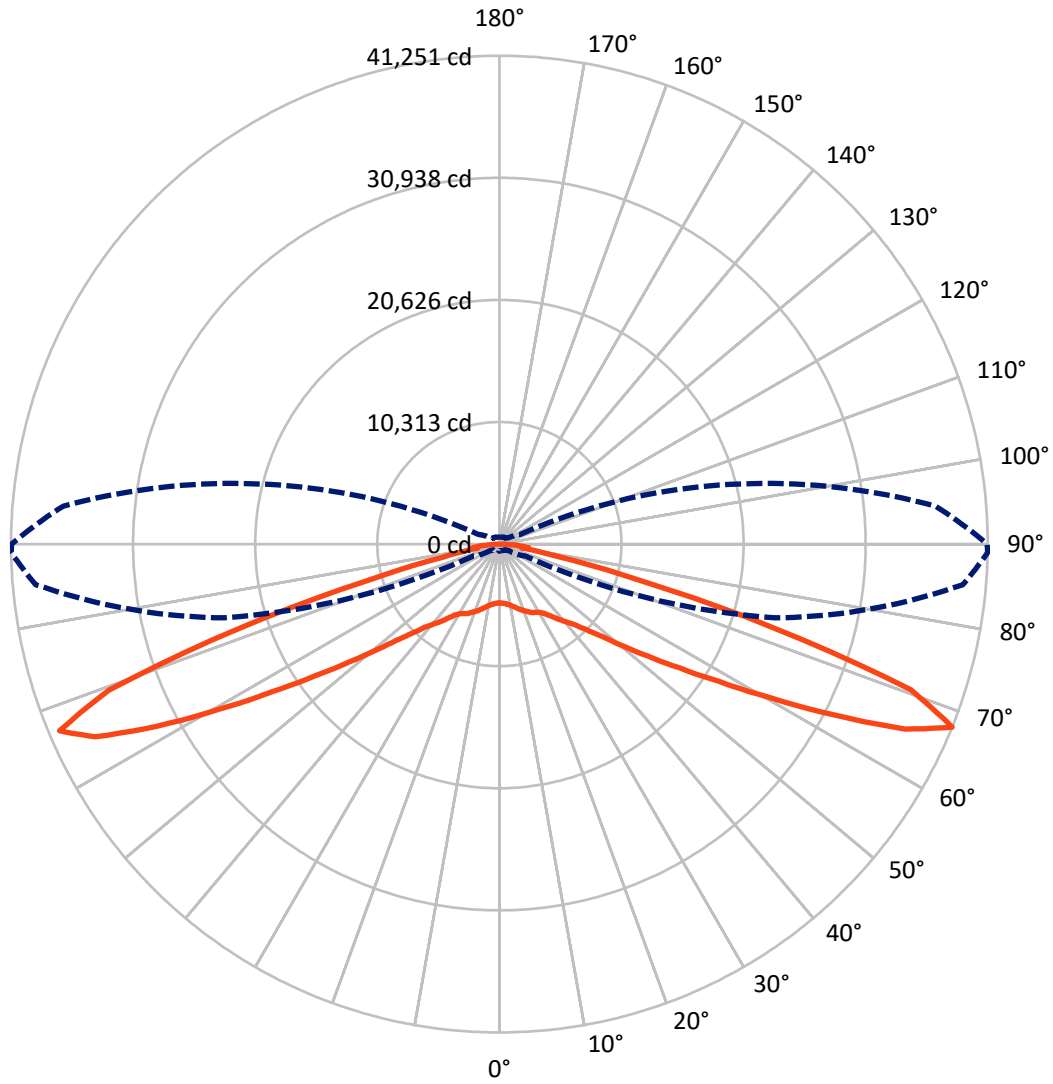
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14657.9	0.0	14657.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14917.1	0.0	14917.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	29575.0	0.0	29575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.9	1.7
10°-20°	1621.3	5.5
20°-30°	2740.7	9.3
30°-40°	3761.3	12.7
40°-50°	4796.5	16.2
50°-60°	6018.0	20.3
60°-70°	7258.2	24.5
70°-80°	2625.8	8.9
80°-90°	255.4	0.9
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°	29575.0	100.0
0°-180°	29575.0	100.0

Coefficient of Utilization



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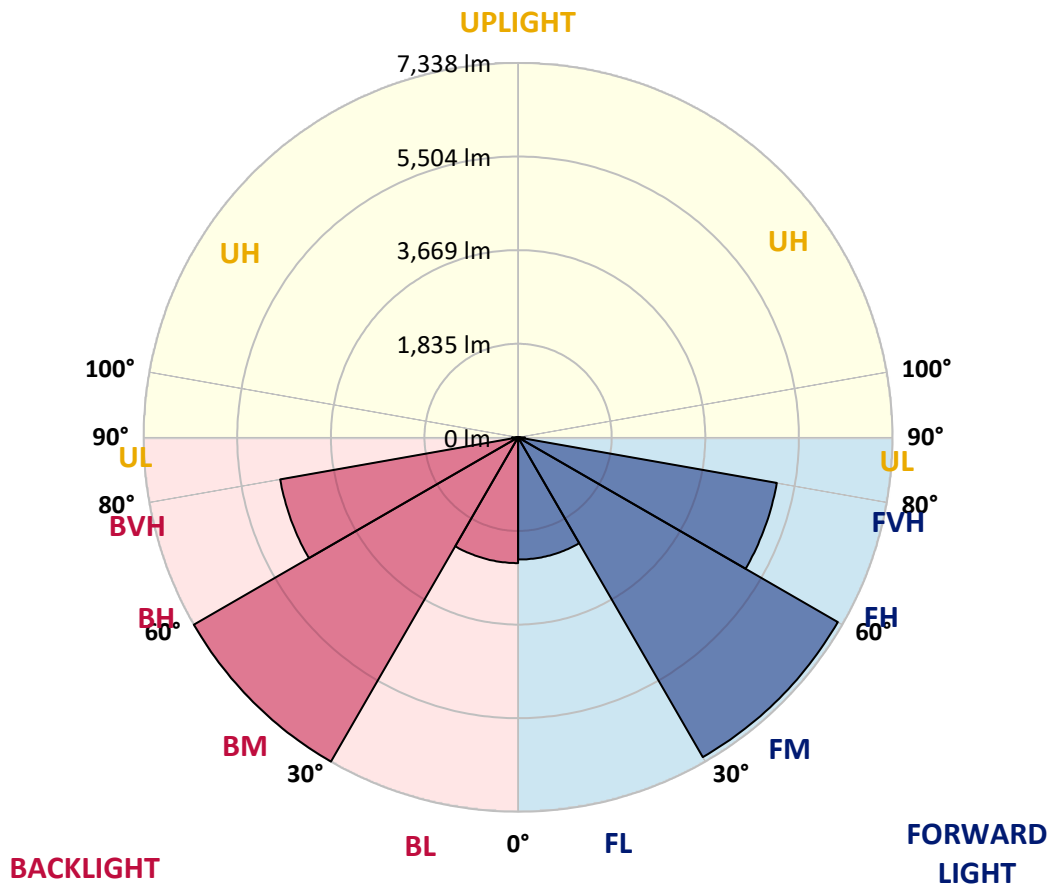
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.3	8.1			
FM (30°-60°)	7237.6	24.5			
FH (60°-80°)	5149.4	17.4			G3/7500
FVH (80°-90°)	134.7	0.5			G2/225
BL (0°-30°)	2464.6	8.3	B3/2500		
BM (30°-60°)	7338.2	24.8	B4/8500		
BH (60°-80°)	4734.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	120.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9
2.5°	4978.8	4974.5	4963.9	4995.8	4989.4	4991.5	5004.3	4995.8	4980.9	4955.4	4991.5
5°	5119.0	5116.9	5093.5	5112.6	5091.4	5076.5	5074.4	5053.1	5036.1	5008.5	5046.8
7.5°	5254.9	5252.8	5233.7	5267.7	5250.7	5233.7	5214.6	5172.1	5131.7	5091.4	5133.9
10°	5359.0	5356.9	5352.6	5401.5	5405.7	5412.1	5403.6	5331.4	5261.3	5212.4	5254.9
12.5°	5418.5	5424.8	5435.5	5524.7	5569.3	5611.8	5622.4	5562.9	5446.1	5376.0	5427.0
15°	5378.1	5390.9	5444.0	5605.4	5728.6	5824.2	5864.5	5815.7	5664.9	5548.0	5605.4
17.5°	5184.8	5195.4	5299.5	5545.9	5817.8	6038.7	6104.5	6074.8	5907.0	5764.7	5819.9
20°	4917.2	4940.6	5053.1	5397.2	5802.9	6187.4	6363.7	6353.1	6170.4	5951.6	6017.5
22.5°	4675.1	4702.7	4821.6	5201.8	5703.1	6225.6	6624.9	6652.6	6410.4	6138.5	6191.6
25°	4403.2	4428.7	4581.6	4970.3	5531.0	6195.9	6848.0	6973.3	6682.3	6353.1	6401.9
27.5°	4124.9	4144.0	4294.8	4709.0	5305.9	6140.7	7024.3	7325.9	6949.9	6501.7	6535.7
30°	3880.7	3906.1	4044.2	4447.8	5059.5	6030.2	7168.7	7701.8	7257.9	6669.5	6697.2
32.5°	3644.9	3666.1	3816.9	4190.8	4798.2	5860.3	7298.3	8143.6	7714.6	6981.8	6981.8
35°	3347.5	3385.7	3555.7	3944.4	4551.9	5635.1	7391.7	8657.7	8339.1	7442.7	7444.8
37.5°	3073.5	3094.8	3273.2	3666.1	4292.7	5380.2	7400.2	9190.8	9129.2	8028.9	8033.2
40°	2761.3	2788.9	2980.1	3368.8	3995.4	5112.6	7319.5	9687.8	9957.6	8632.2	8608.8
42.5°	2444.8	2485.1	2667.8	3048.0	3674.6	4785.5	7105.0	10161.5	11009.0	9331.0	9273.6
45°	2138.9	2164.4	2347.1	2706.1	3307.2	4394.7	6760.9	10616.0	12257.9	10393.0	10310.2
47.5°	1794.8	1805.5	1994.5	2338.6	2927.0	3959.2	6268.1	11021.7	13630.1	11799.1	11656.8
50°	1489.0	1503.8	1652.5	1947.8	2461.8	3443.1	5654.2	11259.6	15378.2	13717.2	13470.8
52.5°	1204.3	1219.2	1338.2	1573.9	2034.8	2854.7	4893.8	11204.4	17151.8	16098.2	15739.3
55°	972.8	983.4	1064.2	1248.9	1601.5	2270.6	3995.4	10709.5	19120.8	19207.9	18434.7
57.5°	822.0	826.3	881.5	994.1	1251.1	1750.2	3084.1	9541.3	21185.4	23175.6	21905.4
60°	734.9	737.0	762.5	832.6	987.7	1336.0	2260.0	7680.6	23324.3	28139.5	26397.8
62.5°	679.7	679.7	700.9	741.3	819.9	1028.0	1661.0	5516.2	24860.0	33541.0	31809.9
65°	626.6	626.6	641.5	675.5	717.9	839.0	1246.8	3557.8	25614.0	38056.8	37672.3
67.5°	558.6	560.8	571.4	607.5	645.7	700.9	945.2	2406.6	24048.6	39305.7	41251.3
70°	494.9	497.0	511.9	535.3	567.1	605.4	739.2	1658.9	17504.4	32736.0	36884.3
72.5°	424.8	433.3	443.9	469.4	488.5	516.1	603.2	1074.8	10184.9	21057.9	24382.1
75°	348.3	359.0	371.7	397.2	409.9	420.6	497.0	766.8	4900.2	10671.3	12151.7
77.5°	269.8	280.4	295.2	318.6	327.1	339.8	380.2	554.4	2347.1	4730.3	5099.9
80°	180.5	184.8	197.5	225.2	240.0	248.5	280.4	378.1	1019.5	1898.9	1881.9
82.5°	110.5	112.6	116.8	133.8	140.2	148.7	182.7	231.5	486.4	2158.0	2474.5
85°	40.4	38.2	36.1	46.7	55.2	63.7	85.0	116.8	212.4	1482.6	1658.9
87.5°	0.0	0.0	0.0	2.1	4.2	4.2	8.5	17.0	51.0	554.4	380.2
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°	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9	4963.9
2.5°	4980.9	4957.6	4987.3	5008.5	5055.3	5072.3	5076.5	5061.6	5061.6	5036.1	5040.4
5°	5038.3	5023.4	5072.3	5108.4	5176.3	5201.8	5218.8	5208.2	5214.6	5197.6	5201.8
7.5°	5125.4	5112.6	5197.6	5267.7	5337.8	5367.5	5382.4	5373.9	5376.0	5354.8	5361.1
10°	5246.4	5250.7	5352.6	5444.0	5537.4	5567.2	5573.5	5548.0	5526.8	5488.6	5490.7
12.5°	5412.1	5433.3	5577.8	5679.7	5775.3	5817.8	5771.1	5677.6	5590.5	5524.7	5516.2
15°	5592.6	5630.9	5839.0	5968.6	6072.7	6051.4	5913.4	5703.1	5531.0	5433.3	5414.2
17.5°	5809.3	5866.7	6127.9	6283.0	6372.2	6236.2	5947.4	5633.0	5393.0	5261.3	5235.8
20°	6013.2	6104.5	6433.8	6635.6	6646.2	6340.3	5932.5	5490.7	5189.1	5027.6	4993.7
22.5°	6200.1	6317.0	6754.5	7011.5	6873.5	6387.0	5841.2	5288.9	4942.7	4753.6	4723.9
25°	6404.0	6569.7	7128.3	7368.4	7100.7	6367.9	5650.0	5038.3	4645.3	4452.0	4430.8
27.5°	6544.2	6752.4	7504.3	7733.7	7287.6	6259.6	5403.6	4764.3	4373.4	4190.8	4161.0
30°	6705.7	6971.2	7918.5	8130.9	7402.3	6100.3	5140.2	4509.4	4120.7	3923.1	3901.9
32.5°	6998.8	7332.3	8432.5	8551.5	7438.5	5902.8	4887.5	4263.0	3857.3	3659.8	3630.0
35°	7470.3	7861.1	9154.7	9020.9	7410.8	5686.1	4647.4	3974.1	3587.5	3402.7	3373.0
37.5°	8065.1	8551.5	9959.7	9443.6	7334.4	5448.2	4362.8	3732.0	3345.4	3158.5	3141.5
40°	8619.4	9218.4	10862.4	9808.9	7179.3	5155.1	4088.8	3479.2	3084.1	2886.6	2848.4
42.5°	9314.0	10110.5	11907.5	10125.4	6924.4	4804.6	3780.8	3167.0	2757.0	2578.6	2531.9
45°	10369.7	11359.5	13122.4	10429.1	6544.2	4373.4	3394.2	2786.8	2398.1	2215.4	2179.3
47.5°	11686.6	12920.6	14439.4	10609.7	5966.5	3918.9	2956.7	2385.3	1996.6	1790.6	1773.6
50°	13536.6	15191.3	15851.9	10577.8	5320.8	3379.4	2463.9	1907.4	1582.4	1433.7	1410.4
52.5°	15790.3	18041.8	17379.0	10195.5	4634.7	2765.5	1920.1	1497.5	1255.3	1149.1	1130.0
55°	18617.4	21455.1	18987.0	9375.6	3768.1	2117.7	1508.1	1181.0	1015.3	951.6	943.1
57.5°	22117.8	25875.3	20535.4	7995.0	2833.5	1616.4	1161.9	974.9	896.4	858.1	856.0
60°	26737.7	30567.3	21879.9	6212.9	2028.5	1236.2	960.1	870.9	809.3	783.8	781.7
62.5°	32230.5	34828.2	22716.8	4231.1	1525.1	985.6	845.4	790.1	754.0	739.2	737.0
65°	37876.2	37521.5	22317.5	2771.9	1157.6	836.9	758.3	728.6	696.7	681.8	681.8
67.5°	41211.0	36952.3	19252.5	1924.4	917.6	734.9	683.9	656.3	603.2	590.5	590.5
70°	36502.0	29942.9	12619.0	1408.3	743.4	643.6	594.7	556.5	535.3	522.5	520.4
72.5°	24142.1	19484.0	6709.9	977.1	620.2	548.0	503.4	488.5	463.0	450.3	448.2
75°	12015.8	10233.7	3438.9	705.2	516.1	439.7	420.6	414.2	393.0	376.0	371.7
77.5°	5008.5	4556.1	1603.7	511.9	393.0	354.7	337.7	337.7	314.4	295.2	286.7
80°	1888.3	1682.3	758.3	350.5	291.0	263.4	252.8	244.3	225.2	201.8	189.0
82.5°	2525.5	1650.4	371.7	218.8	191.2	169.9	155.1	148.7	138.1	127.4	118.9
85°	1635.5	1172.5	167.8	112.6	95.6	72.2	63.7	59.5	53.1	46.7	42.5
87.5°	333.5	393.0	51.0	21.2	12.7	6.4	6.4	2.1	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)