

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: P638212

Luminaire Tested: GWS-SA4E-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638212
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-SA4E-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30128 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

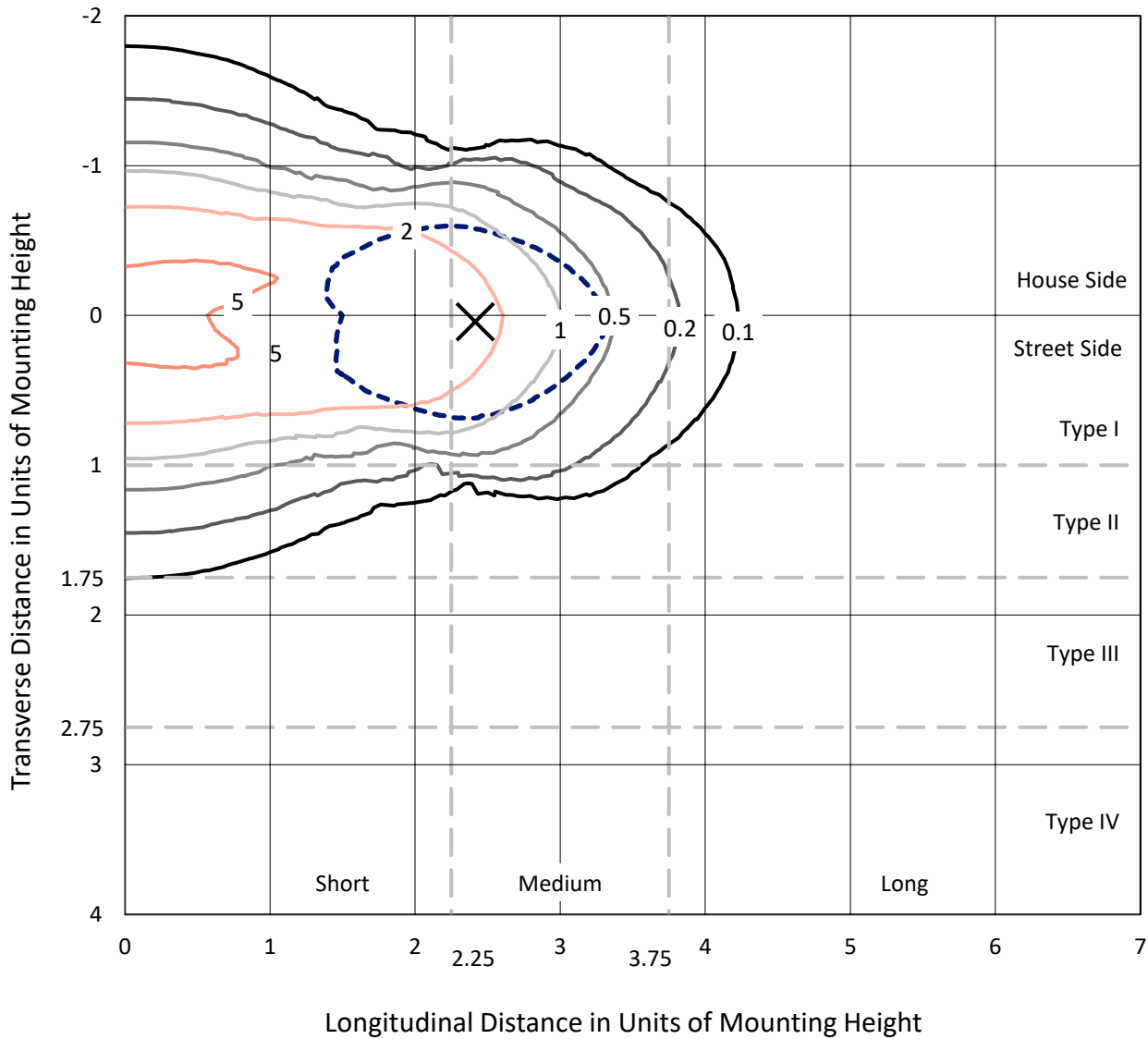
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

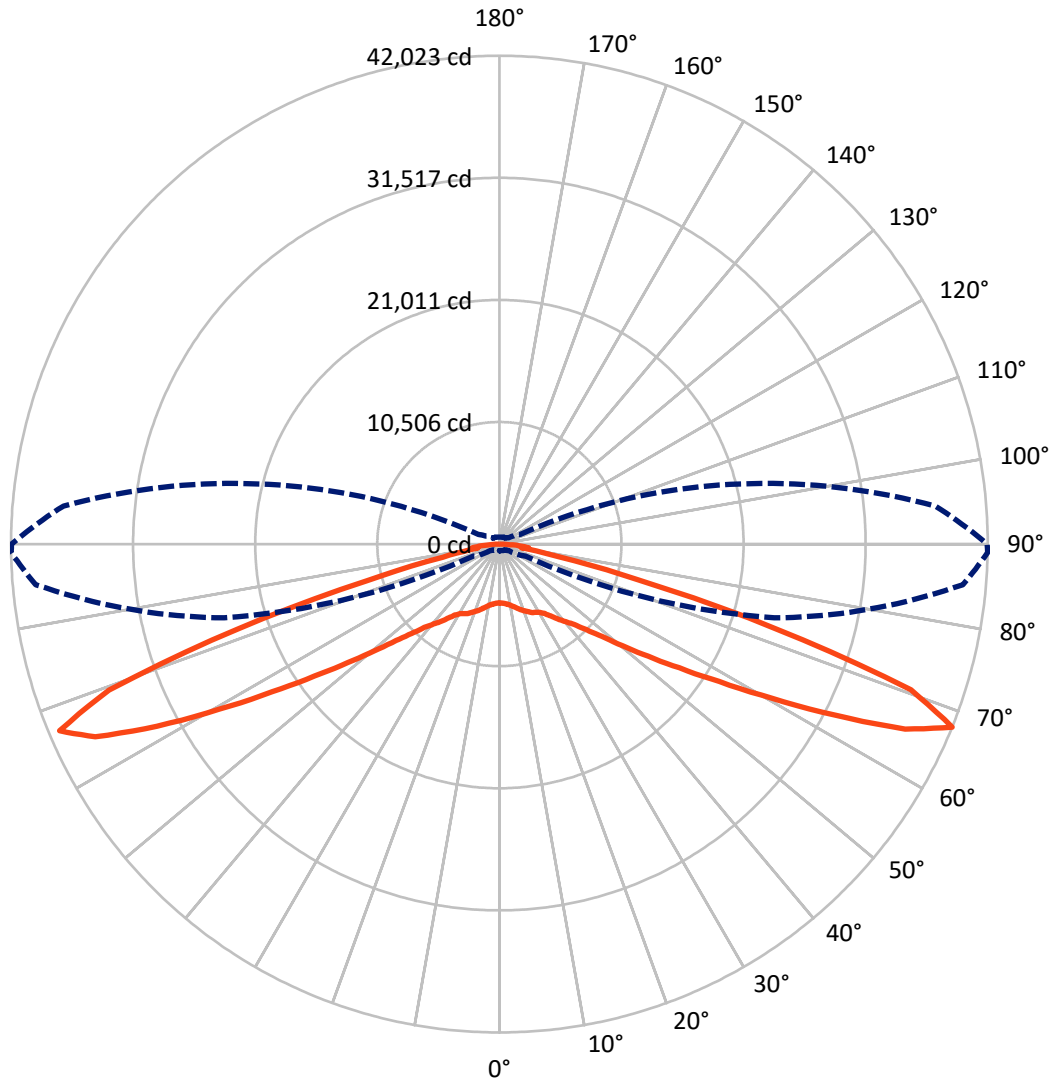
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	14932.0	0.0	14932.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15196.0	0.0	15196.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	30128.0	0.0	30128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	1.7
10°-20°	1651.6	5.5
20°-30°	2792.0	9.3
30°-40°	3831.6	12.7
40°-50°	4886.2	16.2
50°-60°	6130.5	20.3
60°-70°	7393.9	24.5
70°-80°	2674.9	8.9
80°-90°	260.1	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°	30128.0	100.0
0°-180°	30128.0	100.0

Coefficient of Utilization



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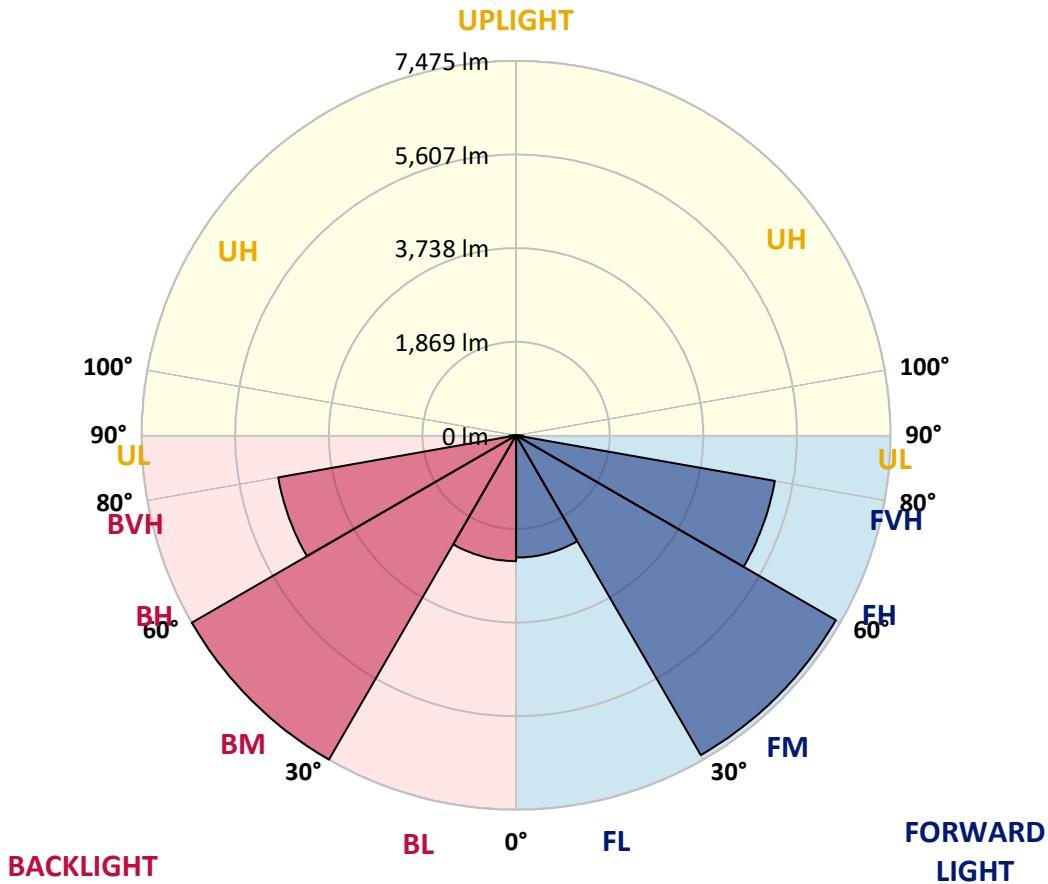
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.1	8.1			
FM (30°-60°)	7372.9	24.5			
FH (60°-80°)	5245.7	17.4			G3/7500
FVH (80°-90°)	137.3	0.5			G2/225
BL (0°-30°)	2510.7	8.3	B4/5000		
BM (30°-60°)	7475.4	24.8	B4/8500		
BH (60°-80°)	4823.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	122.9	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°	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7
2.5°	5071.9	5067.6	5056.7	5089.2	5082.7	5084.9	5097.9	5089.2	5074.1	5048.1	5084.9
5°	5214.7	5212.5	5188.7	5208.2	5186.6	5171.4	5169.3	5147.6	5130.3	5102.2	5141.1
7.5°	5353.2	5351.0	5331.5	5366.2	5348.9	5331.5	5312.1	5268.8	5227.7	5186.6	5229.8
10°	5459.2	5457.0	5452.7	5502.5	5506.8	5513.3	5504.6	5431.1	5359.7	5309.9	5353.2
12.5°	5519.8	5526.3	5537.1	5628.0	5673.4	5716.7	5727.5	5666.9	5547.9	5476.5	5528.4
15°	5478.7	5491.7	5545.8	5710.2	5835.7	5933.1	5974.2	5924.4	5770.8	5651.8	5710.2
17.5°	5281.8	5292.6	5398.6	5649.6	5926.6	6151.6	6218.7	6188.4	6017.5	5872.5	5928.7
20°	5009.1	5032.9	5147.6	5498.2	5911.4	6303.1	6482.7	6471.9	6285.8	6062.9	6130.0
22.5°	4762.5	4790.6	4911.8	5299.1	5809.7	6342.0	6748.8	6776.9	6530.3	6253.3	6307.4
25°	4485.5	4511.5	4667.3	5063.2	5634.5	6311.7	6976.0	7103.7	6807.2	6471.9	6521.6
27.5°	4202.1	4221.5	4375.2	4797.1	5405.1	6255.5	7155.6	7462.9	7079.9	6623.3	6657.9
30°	3953.2	3979.2	4119.8	4530.9	5154.1	6143.0	7302.7	7845.8	7393.6	6794.3	6822.4
32.5°	3713.0	3734.7	3888.3	4269.1	4888.0	5969.9	7434.7	8295.9	7858.8	7112.3	7112.3
35°	3410.1	3449.1	3622.2	4018.1	4637.0	5740.5	7529.9	8819.5	8495.0	7581.9	7584.0
37.5°	3131.0	3152.6	3334.4	3734.7	4373.0	5480.8	7538.6	9362.7	9299.9	8179.1	8183.4
40°	2812.9	2841.0	3035.8	3431.7	4070.1	5208.2	7456.4	9869.0	10143.8	8793.6	8769.8
42.5°	2490.5	2531.6	2717.7	3105.0	3743.3	4875.0	7237.8	10351.5	11214.8	9505.5	9447.0
45°	2178.9	2204.9	2391.0	2756.6	3369.0	4476.9	6887.3	10814.5	12487.1	10587.4	10503.0
47.5°	1828.4	1839.2	2031.8	2382.3	2981.7	4033.3	6385.3	11227.8	13884.9	12019.8	11874.8
50°	1516.8	1532.0	1683.4	1984.2	2507.8	3507.5	5760.0	11470.2	15665.7	13973.7	13722.7
52.5°	1226.9	1242.0	1363.2	1603.4	2072.9	2908.1	4985.3	11413.9	17472.5	16399.3	16033.6
55°	991.0	1001.8	1084.1	1272.3	1631.5	2313.1	4070.1	10909.8	19478.3	19567.0	18779.4
57.5°	837.4	841.7	898.0	1012.6	1274.5	1783.0	3141.8	9719.7	21581.5	23608.9	22315.0
60°	748.7	750.8	776.8	848.2	1006.2	1361.0	2302.3	7824.2	23760.4	28665.7	26891.4
62.5°	692.4	692.4	714.0	755.2	835.2	1047.3	1692.1	5619.3	25324.8	34168.2	32404.7
65°	638.3	638.3	653.5	688.1	731.4	854.7	1270.1	3624.3	26093.0	38768.4	38376.7
67.5°	569.1	571.2	582.1	618.8	657.8	714.0	962.9	2451.6	24498.3	40040.7	42022.7
70°	504.2	506.3	521.5	545.3	577.7	616.7	753.0	1689.9	17831.7	33348.1	37574.0
72.5°	432.8	441.4	452.2	478.2	497.7	525.8	614.5	1094.9	10375.3	21451.7	24838.0
75°	354.9	365.7	378.7	404.6	417.6	428.4	506.3	781.1	4991.8	10870.8	12379.0
77.5°	274.8	285.6	300.8	324.6	333.2	346.2	387.3	564.7	2391.0	4818.7	5195.2
80°	183.9	188.2	201.2	229.4	244.5	253.2	285.6	385.2	1038.6	1934.4	1917.1
82.5°	112.5	114.7	119.0	136.3	142.8	151.5	186.1	235.9	495.5	2198.4	2520.8
85°	41.1	38.9	36.8	47.6	56.3	64.9	86.6	119.0	216.4	1510.3	1689.9
87.5°	0.0	0.0	0.0	2.2	4.3	4.3	8.7	17.3	51.9	564.7	387.3
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°	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7	5056.7
2.5°	5074.1	5050.3	5080.5	5102.2	5149.8	5167.1	5171.4	5156.3	5156.3	5130.3	5134.6
5°	5132.5	5117.3	5167.1	5203.9	5273.1	5299.1	5316.4	5305.6	5312.1	5294.8	5299.1
7.5°	5221.2	5208.2	5294.8	5366.2	5437.6	5467.9	5483.0	5474.4	5476.5	5454.9	5461.4
10°	5344.5	5348.9	5452.7	5545.8	5641.0	5671.3	5677.7	5651.8	5630.1	5591.2	5593.4
12.5°	5513.3	5534.9	5682.1	5785.9	5883.3	5926.6	5879.0	5783.8	5695.1	5628.0	5619.3
15°	5697.2	5736.2	5948.2	6080.2	6186.2	6164.6	6023.9	5809.7	5634.5	5534.9	5515.5
17.5°	5917.9	5976.3	6242.5	6400.4	6491.3	6352.8	6058.6	5738.3	5493.8	5359.7	5333.7
20°	6125.6	6218.7	6554.1	6759.6	6770.5	6458.9	6043.4	5593.4	5286.1	5121.7	5087.0
22.5°	6316.1	6435.1	6880.8	7142.6	7002.0	6506.5	5950.4	5387.8	5035.1	4842.5	4812.2
25°	6523.8	6692.6	7261.6	7506.1	7233.5	6487.0	5755.6	5132.5	4732.2	4535.3	4513.6
27.5°	6666.6	6878.6	7644.6	7878.3	7423.9	6376.6	5504.6	4853.3	4455.2	4269.1	4238.8
30°	6831.0	7101.5	8066.6	8282.9	7540.8	6214.4	5236.3	4593.7	4197.7	3996.5	3974.9
32.5°	7129.6	7469.4	8590.2	8711.4	7577.5	6013.1	4978.8	4342.7	3929.4	3728.2	3697.9
35°	7610.0	8008.1	9325.9	9189.6	7549.4	5792.4	4734.3	4048.4	3654.6	3466.4	3436.1
37.5°	8215.9	8711.4	10145.9	9620.1	7471.5	5550.1	4444.4	3801.8	3407.9	3217.5	3200.2
40°	8780.6	9390.8	11065.5	9992.3	7313.6	5251.5	4165.3	3544.3	3141.8	2940.6	2901.6
42.5°	9488.2	10299.6	12130.1	10314.7	7053.9	4894.5	3851.5	3226.2	2808.6	2626.8	2579.2
45°	10563.5	11571.9	13367.8	10624.1	6666.6	4455.2	3457.7	2838.9	2442.9	2256.8	2220.0
47.5°	11905.1	13162.2	14709.3	10808.1	6078.0	3992.2	3012.0	2429.9	2033.9	1824.1	1806.8
50°	13789.7	15475.3	16148.3	10775.6	5420.3	3442.6	2510.0	1943.1	1612.0	1460.5	1436.7
52.5°	16085.5	18379.1	17704.0	10386.1	4721.4	2817.2	1956.1	1525.5	1278.8	1170.6	1151.1
55°	18965.5	21856.3	19342.0	9550.9	3838.5	2157.3	1536.3	1203.1	1034.3	969.4	960.7
57.5°	22531.4	26359.1	20919.4	8144.4	2886.5	1646.6	1183.6	993.2	913.1	874.2	872.0
60°	27237.6	31138.9	22289.0	6329.0	2066.4	1259.3	978.0	887.1	824.4	798.4	796.3
62.5°	32833.1	35479.4	23141.6	4310.2	1553.6	1004.0	861.2	804.9	768.1	753.0	750.8
65°	38584.4	38223.1	22734.8	2823.7	1179.3	852.5	772.5	742.2	709.7	694.6	694.6
67.5°	41981.6	37643.2	19612.5	1960.4	934.8	748.7	696.7	668.6	614.5	601.5	601.5
70°	37184.5	30502.7	12855.0	1434.6	757.3	655.6	605.9	566.9	545.3	532.3	530.1
72.5°	24593.5	19848.3	6835.4	995.3	631.8	558.3	512.8	497.7	471.7	458.7	456.6
75°	12240.5	10425.1	3503.2	718.4	525.8	447.9	428.4	421.9	400.3	383.0	378.7
77.5°	5102.2	4641.3	1633.7	521.5	400.3	361.4	344.0	344.0	320.2	300.8	292.1
80°	1923.6	1713.7	772.5	357.0	296.4	268.3	257.5	248.8	229.4	205.6	192.6
82.5°	2572.7	1681.3	378.7	222.9	194.7	173.1	158.0	151.5	140.6	129.8	121.2
85°	1666.1	1194.4	170.9	114.7	97.4	73.6	64.9	60.6	54.1	47.6	43.3
87.5°	339.7	400.3	51.9	21.6	13.0	6.5	6.5	2.2	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)