

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: P640357

Luminaire Tested: GWS-SA5D-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640357
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-760-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30252.8 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

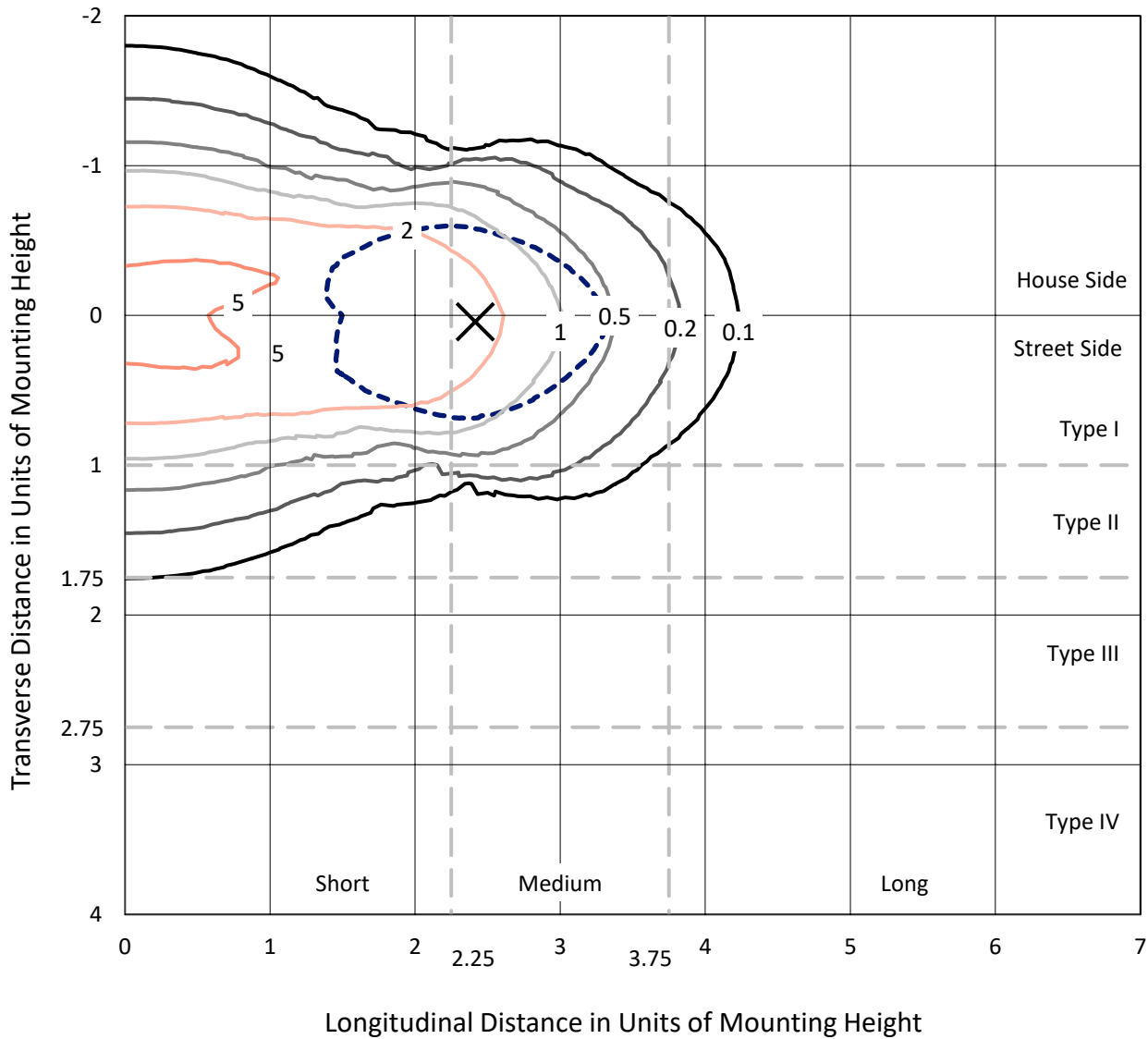
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

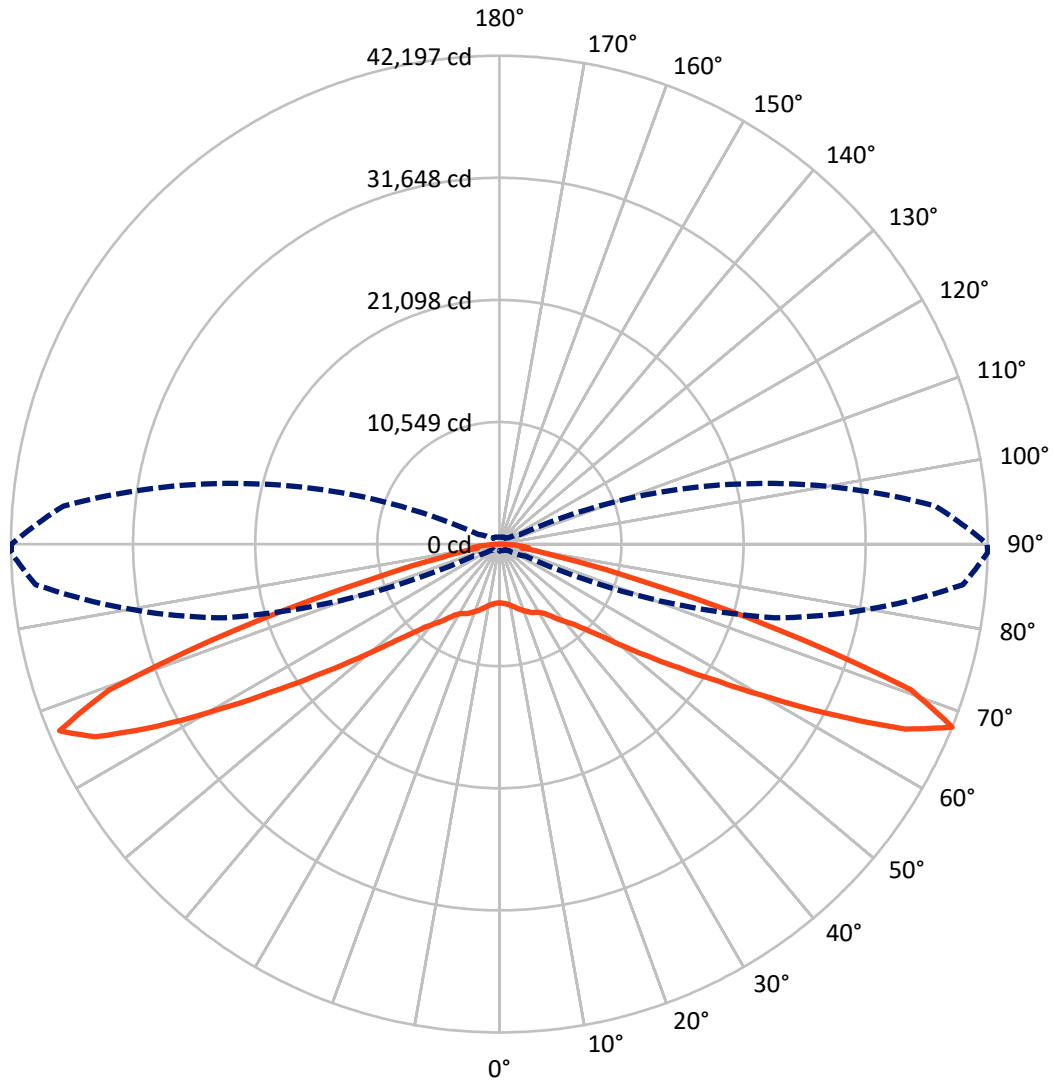
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	14993.8	0.0	14993.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15259.0	0.0	15259.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	30252.8	0.0	30252.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.3	1.7
10°-20°	1658.5	5.5
20°-30°	2803.6	9.3
30°-40°	3847.5	12.7
40°-50°	4906.4	16.2
50°-60°	6155.9	20.3
60°-70°	7424.5	24.5
70°-80°	2686.0	8.9
80°-90°	261.2	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°	30252.8	100.0
0°-180°	30252.8	100.0

Coefficient of Utilization



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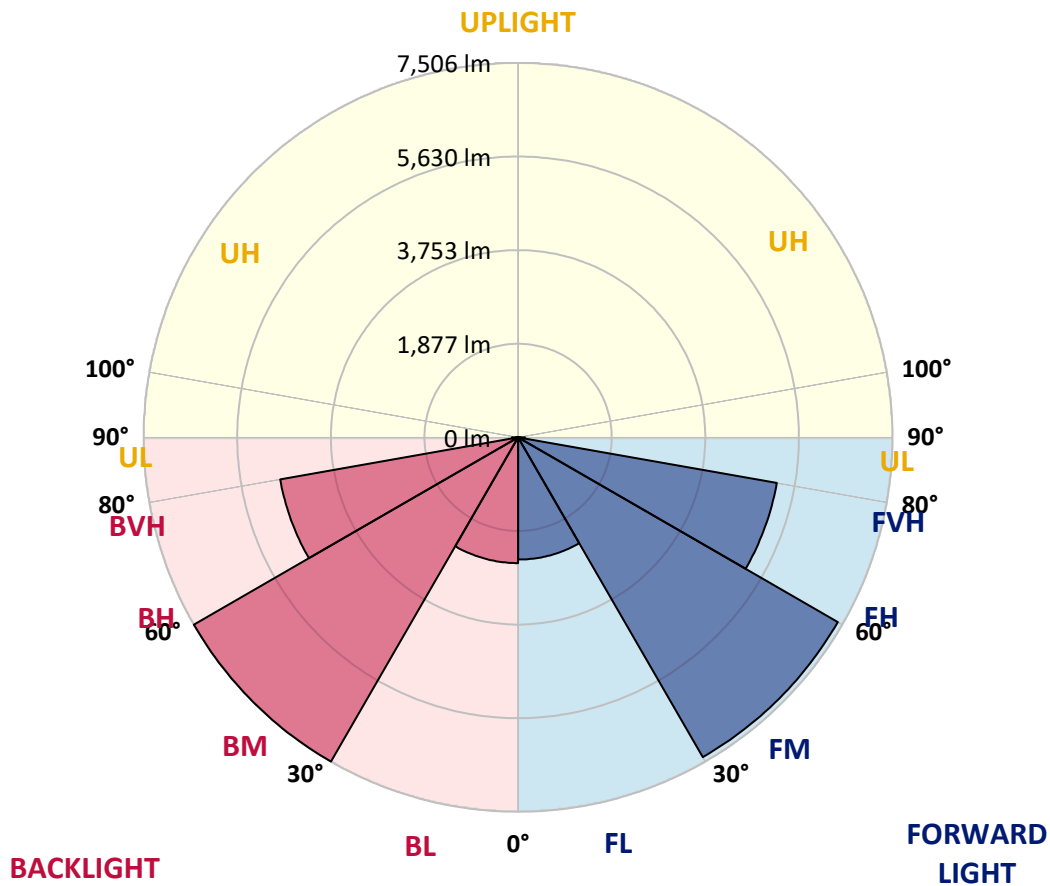
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.2	8.1			
FM (30°-60°)	7403.5	24.5			
FH (60°-80°)	5267.4	17.4			G3/7500
FVH (80°-90°)	137.8	0.5			G2/225
BL (0°-30°)	2521.1	8.3	B4/5000		
BM (30°-60°)	7506.4	24.8	B4/8500		
BH (60°-80°)	4843.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	123.4	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°	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7
2.5°	5092.9	5088.6	5077.7	5110.3	5103.8	5105.9	5119.0	5110.3	5095.1	5069.0	5105.9
5°	5236.3	5234.1	5210.2	5229.8	5208.1	5192.8	5190.7	5168.9	5151.6	5123.3	5162.4
7.5°	5375.4	5373.2	5353.6	5388.4	5371.0	5353.6	5334.1	5290.6	5249.3	5208.1	5251.5
10°	5481.8	5479.6	5475.3	5525.3	5529.6	5536.1	5527.4	5453.6	5381.9	5331.9	5375.4
12.5°	5542.7	5549.2	5560.0	5651.3	5696.9	5740.4	5751.2	5690.4	5570.9	5499.2	5551.3
15°	5501.4	5514.4	5568.7	5733.9	5859.9	5957.6	5998.9	5949.0	5794.7	5675.2	5733.9
17.5°	5303.7	5314.5	5421.0	5673.0	5951.1	6177.1	6244.4	6214.0	6042.4	5896.8	5953.3
20°	5029.9	5053.8	5168.9	5520.9	5935.9	6329.2	6509.5	6498.7	6311.8	6088.0	6155.4
22.5°	4782.2	4810.4	4932.1	5321.0	5833.8	6368.3	6776.8	6805.0	6557.3	6279.2	6333.5
25°	4504.1	4530.2	4686.6	5084.2	5657.8	6337.9	7004.9	7133.1	6835.4	6498.7	6548.6
27.5°	4219.5	4239.0	4393.3	4817.0	5427.5	6281.4	7185.2	7493.8	7109.2	6650.8	6685.5
30°	3969.6	3995.7	4136.9	4549.7	5175.5	6168.4	7333.0	7878.3	7424.2	6822.4	6850.6
32.5°	3728.4	3750.1	3904.4	4286.8	4908.2	5994.6	7465.5	8330.3	7891.4	7141.8	7141.8
35°	3424.2	3463.3	3637.2	4034.8	4656.2	5764.3	7561.1	8856.1	8530.2	7613.3	7615.4
37.5°	3144.0	3165.7	3348.2	3750.1	4391.1	5503.5	7569.8	9401.4	9338.4	8212.9	8217.3
40°	2824.6	2852.8	3048.4	3446.0	4086.9	5229.8	7487.3	9909.9	10185.8	8830.0	8806.1
42.5°	2500.8	2542.1	2729.0	3117.9	3758.8	4895.2	7267.8	10394.4	11261.3	9544.8	9486.2
45°	2187.9	2214.0	2400.9	2768.1	3383.0	4495.4	6915.8	10859.3	12538.9	10631.2	10546.5
47.5°	1836.0	1846.8	2040.2	2392.2	2994.0	4050.0	6411.7	11274.3	13942.5	12069.6	11924.0
50°	1523.1	1538.3	1690.4	1992.4	2518.2	3522.0	5783.8	11517.7	15730.6	14031.5	13779.5
52.5°	1231.9	1247.2	1368.8	1610.0	2081.5	2920.2	5006.0	11461.2	17544.9	16467.2	16100.0
55°	995.1	1006.0	1088.5	1277.6	1638.2	2322.7	4086.9	10954.9	19559.0	19648.1	18857.2
57.5°	840.8	845.2	901.7	1016.8	1279.7	1790.3	3154.8	9759.9	21670.9	23706.7	22407.4
60°	751.8	753.9	780.0	851.7	1010.3	1366.7	2311.8	7856.6	23858.8	28784.4	27002.8
62.5°	695.3	695.3	717.0	758.3	838.7	1051.6	1699.1	5642.6	25429.7	34309.7	32538.9
65°	641.0	641.0	656.2	690.9	734.4	858.2	1275.4	3639.3	26201.0	38928.9	38535.7
67.5°	571.4	573.6	584.5	621.4	660.5	717.0	966.9	2461.7	24599.7	40206.5	42196.7
70°	506.2	508.4	523.6	547.5	580.1	619.2	756.1	1696.9	17905.5	33486.2	37729.6
72.5°	434.5	443.2	454.1	480.2	499.7	528.0	617.1	1099.4	10418.3	21540.5	24940.9
75°	356.3	367.2	380.2	406.3	419.3	430.2	508.4	784.4	5012.5	10915.8	12430.2
77.5°	275.9	286.8	302.0	325.9	334.6	347.6	388.9	567.1	2400.9	4838.7	5216.7
80°	184.7	189.0	202.1	230.3	245.5	254.2	286.8	386.7	1042.9	1942.4	1925.0
82.5°	113.0	115.2	119.5	136.9	143.4	152.1	186.9	236.8	497.6	2207.5	2531.2
85°	41.3	39.1	36.9	47.8	56.5	65.2	86.9	119.5	217.3	1516.6	1696.9
87.5°	0.0	0.0	0.0	2.2	4.3	4.3	8.7	17.4	52.1	567.1	388.9
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°	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7	5077.7
2.5°	5095.1	5071.2	5101.6	5123.3	5171.1	5188.5	5192.8	5177.6	5177.6	5151.6	5155.9
5°	5153.7	5138.5	5188.5	5225.4	5295.0	5321.0	5338.4	5327.6	5334.1	5316.7	5321.0
7.5°	5242.8	5229.8	5316.7	5388.4	5460.1	5490.5	5505.7	5497.0	5499.2	5477.5	5484.0
10°	5366.7	5371.0	5475.3	5568.7	5664.3	5694.7	5701.3	5675.2	5653.5	5614.4	5616.5
12.5°	5536.1	5557.9	5705.6	5809.9	5907.7	5951.1	5903.3	5807.7	5718.6	5651.3	5642.6
15°	5720.8	5759.9	5972.9	6105.4	6211.9	6190.1	6048.9	5833.8	5657.8	5557.9	5538.3
17.5°	5942.4	6001.1	6268.3	6427.0	6518.2	6379.2	6083.7	5762.1	5516.6	5381.9	5355.8
20°	6151.0	6244.4	6581.2	6787.6	6798.5	6485.6	6068.5	5616.5	5308.0	5142.9	5108.1
22.5°	6342.2	6461.7	6909.3	7172.2	7031.0	6533.4	5975.0	5410.1	5056.0	4862.6	4832.2
25°	6550.8	6720.3	7291.7	7537.2	7263.5	6513.9	5779.5	5153.7	4751.8	4554.1	4532.3
27.5°	6694.2	6907.1	7676.3	7910.9	7454.7	6403.1	5527.4	4873.5	4473.7	4286.8	4256.4
30°	6859.3	7130.9	8100.0	8317.2	7572.0	6240.1	5258.0	4612.7	4215.1	4013.0	3991.3
32.5°	7159.2	7500.3	8625.8	8747.4	7608.9	6038.0	4999.5	4360.7	3945.7	3743.6	3713.2
35°	7641.5	8041.3	9364.5	9227.6	7580.7	5816.4	4754.0	4065.2	3669.8	3480.7	3450.3
37.5°	8249.9	8747.4	10188.0	9660.0	7502.5	5573.1	4462.8	3817.5	3422.1	3230.9	3213.5
40°	8817.0	9429.7	11111.4	10033.7	7343.9	5273.2	4182.5	3558.9	3154.8	2952.8	2913.6
42.5°	9527.5	10342.2	12180.4	10357.4	7083.1	4914.7	3867.5	3239.6	2820.2	2637.7	2589.9
45°	10607.3	11619.8	13423.2	10668.1	6694.2	4473.7	3472.0	2850.6	2453.0	2266.2	2229.2
47.5°	11954.4	13216.8	14770.3	10852.8	6103.2	4008.7	3024.5	2440.0	2042.4	1831.6	1814.2
50°	13846.9	15539.4	16215.1	10820.2	5442.7	3456.8	2520.4	1951.1	1618.7	1466.6	1442.7
52.5°	16152.1	18455.2	17777.3	10429.1	4740.9	2828.9	1964.2	1531.8	1284.1	1175.5	1155.9
55°	19044.0	21946.8	19422.1	9590.5	3854.4	2166.2	1542.6	1208.0	1038.6	973.4	964.7
57.5°	22624.7	26468.3	21006.0	8178.2	2898.4	1653.5	1188.5	997.3	916.9	877.8	875.6
60°	27350.4	31267.9	22381.4	6355.3	2075.0	1264.5	982.1	890.8	827.8	801.7	799.6
62.5°	32969.1	35626.4	23237.4	4328.1	1560.0	1008.2	864.7	808.3	771.3	756.1	753.9
65°	38744.3	38381.4	22829.0	2835.4	1184.1	856.1	775.7	745.2	712.7	697.4	697.4
67.5°	42155.5	37799.1	19693.7	1968.5	938.6	751.8	699.6	671.4	617.1	604.0	604.0
70°	37338.5	30629.1	12908.2	1440.5	760.5	658.3	608.4	569.3	547.5	534.5	532.3
72.5°	24695.3	19930.5	6863.7	999.5	634.4	560.6	514.9	499.7	473.7	460.6	458.4
75°	12291.2	10468.3	3517.7	721.3	528.0	449.8	430.2	423.7	402.0	384.6	380.2
77.5°	5123.3	4660.5	1640.4	523.6	402.0	362.8	345.5	345.5	321.6	302.0	293.3
80°	1931.6	1720.8	775.7	358.5	297.7	269.4	258.6	249.9	230.3	206.4	193.4
82.5°	2583.4	1688.2	380.2	223.8	195.5	173.8	158.6	152.1	141.2	130.4	121.7
85°	1673.0	1199.4	171.6	115.2	97.8	73.9	65.2	60.8	54.3	47.8	43.5
87.5°	341.1	402.0	52.1	21.7	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)