

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: P640687

Luminaire Tested: GWS-SA5E-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640687
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-SA5E-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: 36958.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

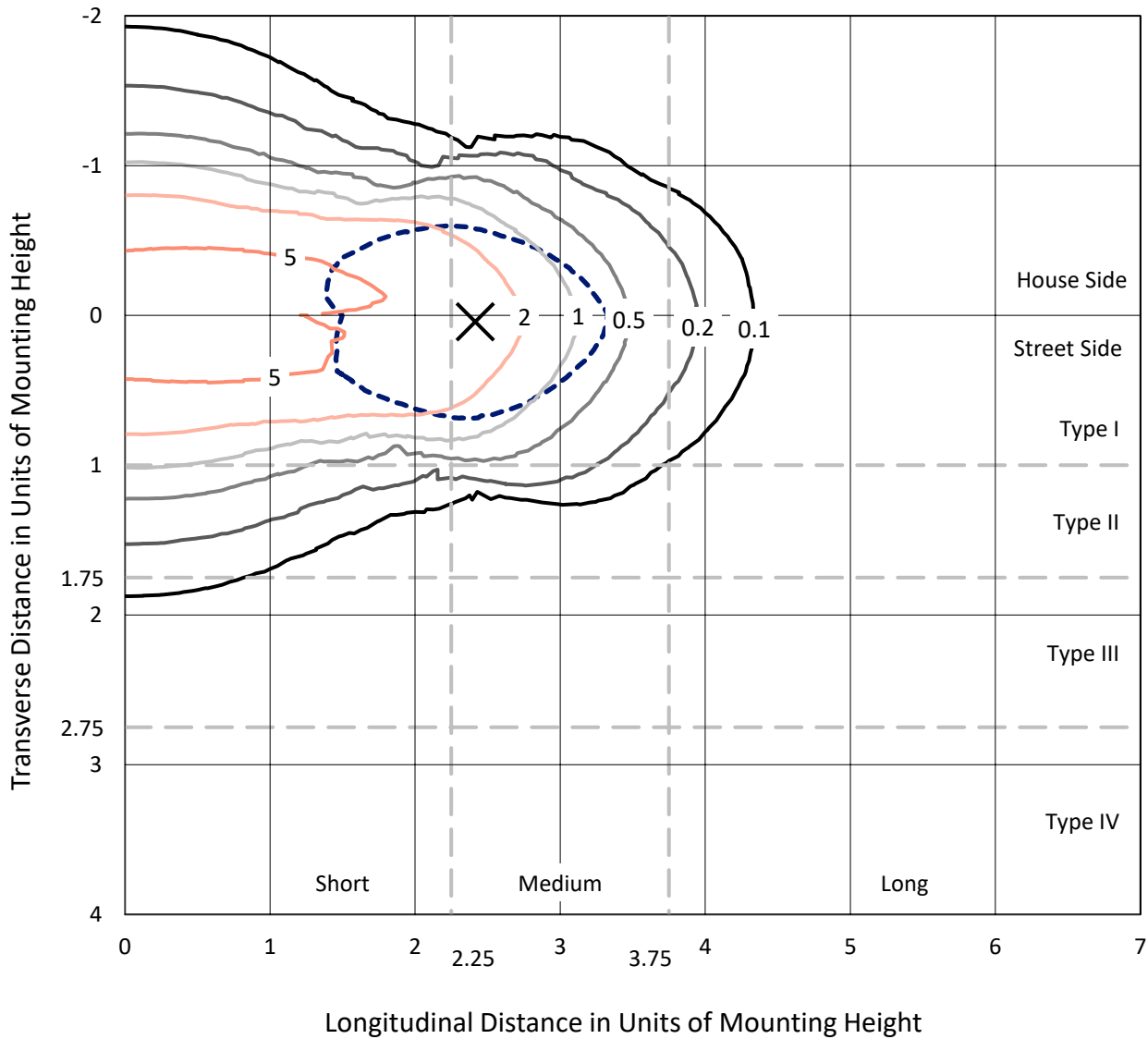
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

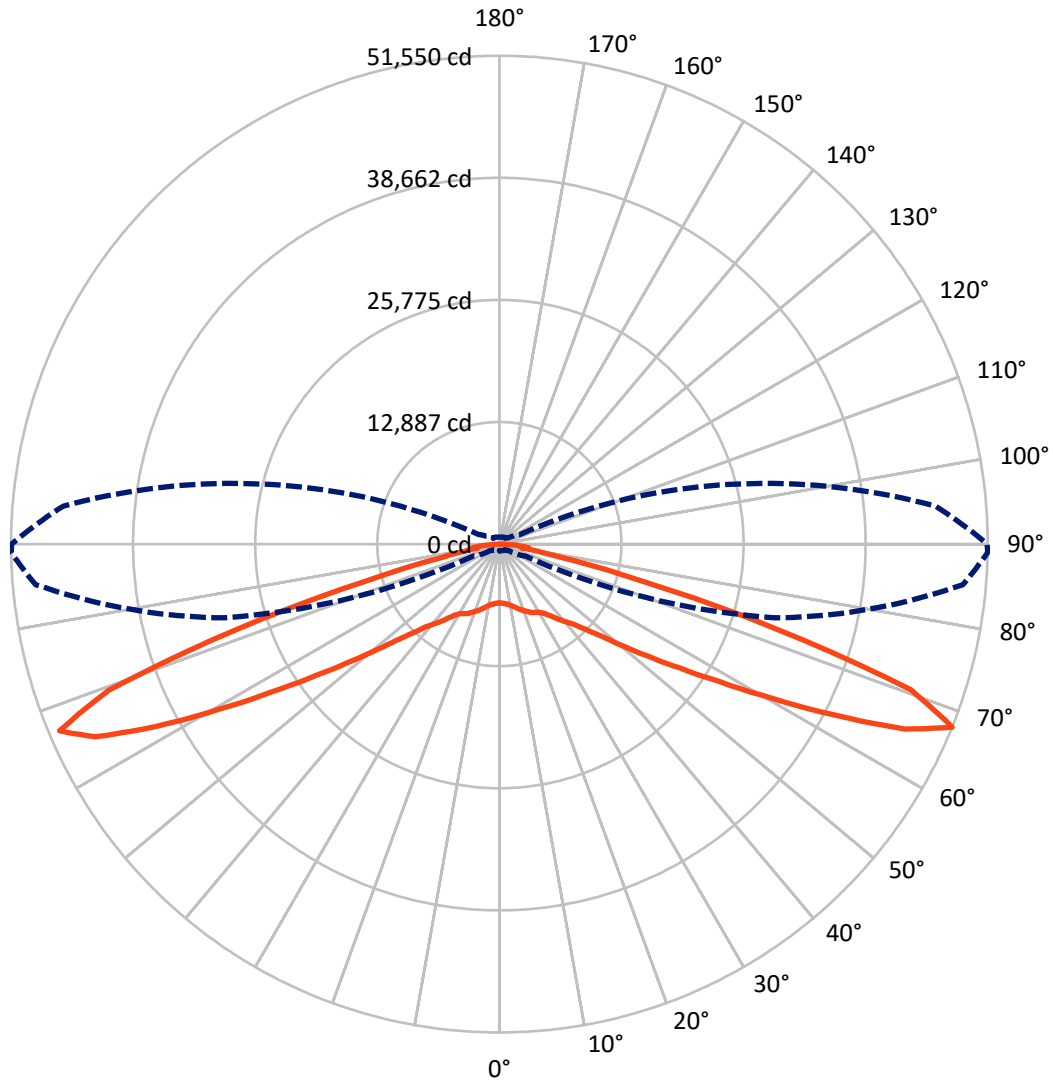
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	18317.2	0.0	18317.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18641.2	0.0	18641.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	36958.4	0.0	36958.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.2	1.7
10°-20°	2026.1	5.5
20°-30°	3425.0	9.3
30°-40°	4700.3	12.7
40°-50°	5993.9	16.2
50°-60°	7520.3	20.3
60°-70°	9070.2	24.5
70°-80°	3281.3	8.9
80°-90°	319.1	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°	36958.4	100.0
0°-180°	36958.4	100.0

Coefficient of Utilization



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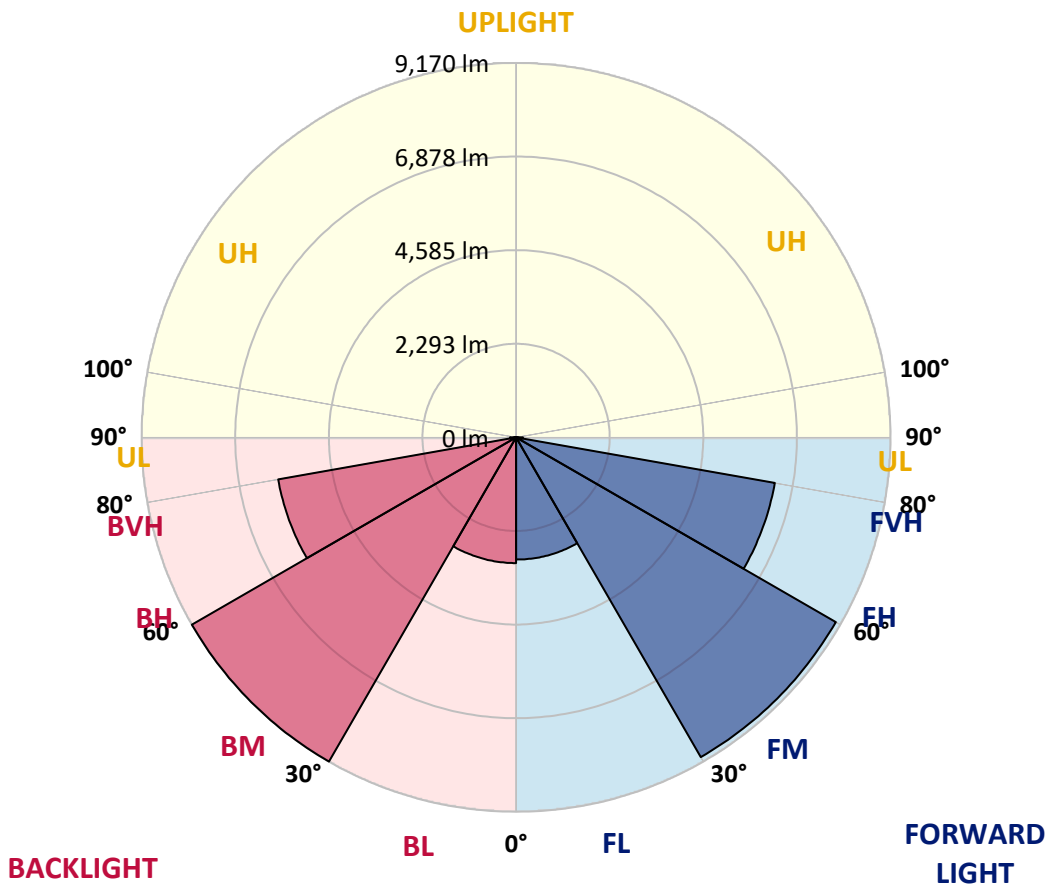
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2993.4	8.1			
FM (30°-60°)	9044.4	24.5			
FH (60°-80°)	6435.0	17.4			G3/7500
FVH (80°-90°)	168.4	0.5			G2/225
BL (0°-30°)	3079.9	8.3	B4/5000		
BM (30°-60°)	9170.2	24.8	B5		
BH (60°-80°)	5916.5	16.0	B5		G5
BVH (80°-90°)	150.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2
2.5°	6221.8	6216.4	6203.2	6243.0	6235.0	6237.7	6253.6	6243.0	6224.4	6192.6	6237.7
5°	6396.9	6394.3	6365.1	6389.0	6362.4	6343.8	6341.2	6314.7	6293.4	6258.9	6306.7
7.5°	6566.8	6564.2	6540.3	6582.7	6561.5	6540.3	6516.4	6463.3	6412.9	6362.4	6415.5
10°	6696.9	6694.2	6688.9	6750.0	6755.3	6763.2	6752.6	6662.4	6574.8	6513.7	6566.8
12.5°	6771.2	6779.2	6792.4	6903.9	6959.7	7012.7	7026.0	6951.7	6805.7	6718.1	6781.8
15°	6720.8	6736.7	6803.0	7004.8	7158.7	7278.2	7328.6	7267.6	7079.1	6933.1	7004.8
17.5°	6479.2	6492.5	6622.6	6930.5	7270.2	7546.3	7628.5	7591.4	7381.7	7203.9	7272.9
20°	6144.8	6174.0	6314.7	6744.7	7251.6	7732.1	7952.4	7939.1	7710.8	7437.4	7519.7
22.5°	5842.2	5876.7	6025.3	6500.5	7126.9	7779.8	8278.9	8313.4	8010.8	7671.0	7737.4
25°	5502.4	5534.3	5725.4	6211.1	6911.9	7742.7	8557.6	8714.2	8350.5	7939.1	8000.2
27.5°	5154.7	5178.6	5367.1	5884.7	6630.5	7673.7	8777.9	9154.8	8685.0	8124.9	8167.4
30°	4849.5	4881.3	5053.8	5558.2	6322.6	7535.6	8958.4	9624.6	9069.8	8334.6	8369.1
32.5°	4554.8	4581.4	4769.8	5237.0	5996.1	7323.3	9120.3	10176.7	9640.5	8724.8	8724.8
35°	4183.2	4231.0	4443.3	4929.1	5688.2	7041.9	9237.1	10819.0	10420.9	9300.8	9303.4
37.5°	3840.8	3867.4	4090.3	4581.4	5364.4	6723.4	9247.7	11485.3	11408.3	10033.4	10038.7
40°	3450.6	3485.1	3724.0	4209.8	4992.8	6389.0	9146.8	12106.4	12443.5	10787.2	10758.0
42.5°	3055.1	3105.6	3333.8	3809.0	4592.0	5980.2	8878.7	12698.3	13757.4	11660.5	11588.8
45°	2672.9	2704.8	2933.0	3381.6	4132.8	5491.8	8448.7	13266.3	15318.1	12987.6	12884.1
47.5°	2242.9	2256.2	2492.4	2922.4	3657.7	4947.7	7832.9	13773.3	17032.8	14744.8	14567.0
50°	1860.7	1879.3	2065.1	2434.0	3076.4	4302.7	7065.8	14070.6	19217.4	17141.7	16833.8
52.5°	1505.0	1523.6	1672.2	1966.9	2542.8	3567.4	6115.6	14001.6	21433.7	20117.2	19668.6
55°	1215.7	1229.0	1329.8	1560.7	2001.4	2837.5	4992.8	13383.1	23894.3	24003.1	23036.9
57.5°	1027.2	1032.5	1101.5	1242.2	1563.4	2187.2	3854.1	11923.3	26474.3	28961.4	27374.1
60°	918.4	921.1	952.9	1040.5	1234.3	1669.6	2824.2	9598.1	29147.2	35164.6	32988.0
62.5°	849.4	849.4	875.9	926.4	1024.6	1284.7	2075.7	6893.3	31066.3	41914.5	39751.2
65°	783.0	783.0	801.6	844.1	897.2	1048.5	1558.1	4446.0	32008.6	47557.6	47077.2
67.5°	698.1	700.7	714.0	759.1	806.9	875.9	1181.2	3007.4	30052.3	49118.4	51549.7
70°	618.5	621.1	639.7	668.9	708.7	756.5	923.7	2073.0	21874.3	40908.5	46092.4
72.5°	530.9	541.5	554.8	586.6	610.5	645.0	753.8	1343.1	12727.5	26315.0	30469.1
75°	435.3	448.6	464.5	496.4	512.3	525.6	621.1	958.2	6123.5	13335.4	15185.4
77.5°	337.1	350.4	369.0	398.1	408.8	424.7	475.1	692.8	2933.0	5911.2	6373.0
80°	225.6	230.9	246.9	281.4	299.9	310.6	350.4	472.5	1274.1	2373.0	2351.7
82.5°	138.0	140.7	146.0	167.2	175.2	185.8	228.3	289.3	607.8	2696.8	3092.3
85°	50.4	47.8	45.1	58.4	69.0	79.6	106.2	146.0	265.4	1852.7	2073.0
87.5°	0.0	0.0	0.0	2.7	5.3	5.3	10.6	21.2	63.7	692.8	475.1
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°	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2	6203.2
2.5°	6224.4	6195.2	6232.4	6258.9	6317.3	6338.5	6343.8	6325.3	6325.3	6293.4	6298.7
5°	6296.1	6277.5	6338.5	6383.7	6468.6	6500.5	6521.7	6508.4	6516.4	6495.1	6500.5
7.5°	6404.9	6389.0	6495.1	6582.7	6670.3	6707.5	6726.1	6715.5	6718.1	6691.6	6699.5
10°	6556.2	6561.5	6688.9	6803.0	6919.8	6957.0	6965.0	6933.1	6906.6	6858.8	6861.4
12.5°	6763.2	6789.8	6970.3	7097.7	7217.1	7270.2	7211.8	7095.0	6986.2	6903.9	6893.3
15°	6988.9	7036.6	7296.8	7458.7	7588.7	7562.2	7389.7	7126.9	6911.9	6789.8	6765.9
17.5°	7259.6	7331.3	7657.7	7851.5	7963.0	7793.1	7432.1	7039.3	6739.3	6574.8	6542.9
20°	7514.4	7628.5	8040.0	8292.1	8305.4	7923.2	7413.5	6861.4	6484.5	6282.8	6240.3
22.5°	7748.0	7894.0	8440.8	8761.9	8589.4	7981.6	7299.4	6609.3	6176.6	5940.4	5903.2
25°	8002.8	8209.8	8907.9	9207.9	8873.4	7957.7	7060.5	6296.1	5805.0	5563.5	5536.9
27.5°	8178.0	8438.1	9377.7	9664.4	9107.0	7822.3	6752.6	5953.7	5465.3	5237.0	5199.8
30°	8379.7	8711.5	9895.3	10160.8	9250.3	7623.2	6423.5	5635.1	5149.4	4902.5	4876.0
32.5°	8746.0	9162.7	10537.7	10686.3	9295.5	7376.4	6107.6	5327.2	4820.3	4573.4	4536.3
35°	9335.3	9823.7	11440.2	11272.9	9261.0	7105.6	5807.7	4966.3	4483.2	4252.2	4215.1
37.5°	10078.5	10686.3	12446.2	11801.2	9165.4	6808.4	5452.0	4663.7	4180.6	3947.0	3925.8
40°	10771.3	11519.8	13574.2	12257.7	8971.6	6442.1	5109.6	4347.8	3854.1	3607.2	3559.5
42.5°	11639.2	12634.6	14880.2	12653.2	8653.1	6004.1	4724.7	3957.6	3445.3	3222.4	3164.0
45°	12958.4	14195.4	16398.5	13032.8	8178.0	5465.3	4241.6	3482.5	2996.7	2768.5	2723.3
47.5°	14604.1	16146.3	18044.1	13258.4	7456.0	4897.2	3694.8	2980.8	2495.1	2237.6	2216.4
50°	16916.0	18983.8	19809.3	13218.6	6649.1	4223.0	3079.0	2383.6	1977.5	1791.7	1762.5
52.5°	19732.3	22545.9	21717.7	12740.8	5791.7	3455.9	2399.5	1871.3	1568.7	1436.0	1412.1
55°	23265.2	26811.4	23727.1	11716.2	4708.8	2646.4	1884.6	1475.8	1268.8	1189.1	1178.5
57.5°	27639.5	32335.1	25662.1	9990.9	3540.9	2019.9	1451.9	1218.3	1120.1	1072.3	1069.7
60°	33412.7	38198.5	27342.3	7763.9	2534.9	1544.8	1199.8	1088.3	1011.3	979.4	976.8
62.5°	40276.8	43523.1	28388.1	5287.4	1905.8	1231.6	1056.4	987.4	942.3	923.7	921.1
65°	47332.0	46888.7	27889.0	3463.9	1446.6	1045.8	947.6	910.4	870.6	852.0	852.0
67.5°	51499.3	46177.4	24058.8	2404.8	1146.7	918.4	854.7	820.2	753.8	737.9	737.9
70°	45614.7	37418.1	15769.4	1759.8	929.0	804.3	743.2	695.4	668.9	653.0	650.3
72.5°	30169.1	24348.2	8385.0	1221.0	775.1	684.8	629.1	610.5	578.6	562.7	560.1
75°	15015.5	12788.6	4297.4	881.2	645.0	549.4	525.6	517.6	491.1	469.8	464.5
77.5°	6258.9	5693.5	2004.0	639.7	491.1	443.3	422.0	422.0	392.8	369.0	358.3
80°	2359.7	2102.2	947.6	438.0	363.6	329.1	315.9	305.2	281.4	252.2	236.2
82.5°	3156.0	2062.4	464.5	273.4	238.9	212.3	193.8	185.8	172.5	159.3	148.6
85°	2043.8	1465.2	209.7	140.7	119.4	90.2	79.6	74.3	66.4	58.4	53.1
87.5°	416.7	491.1	63.7	26.5	15.9	8.0	8.0	2.7	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)