

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: P640852

Luminaire Tested: GWS-SA5E-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640852
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-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: 37805.4 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

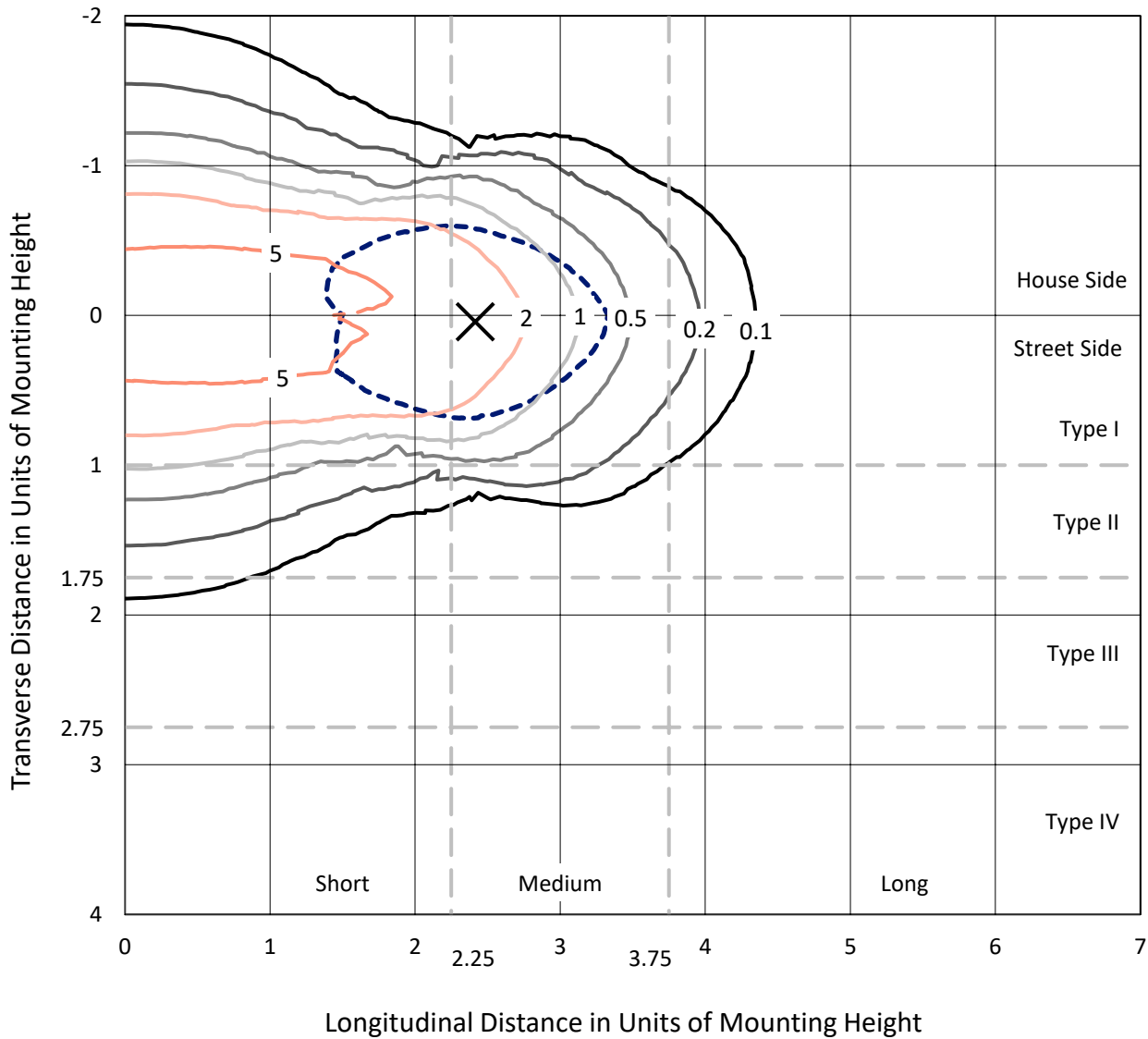
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

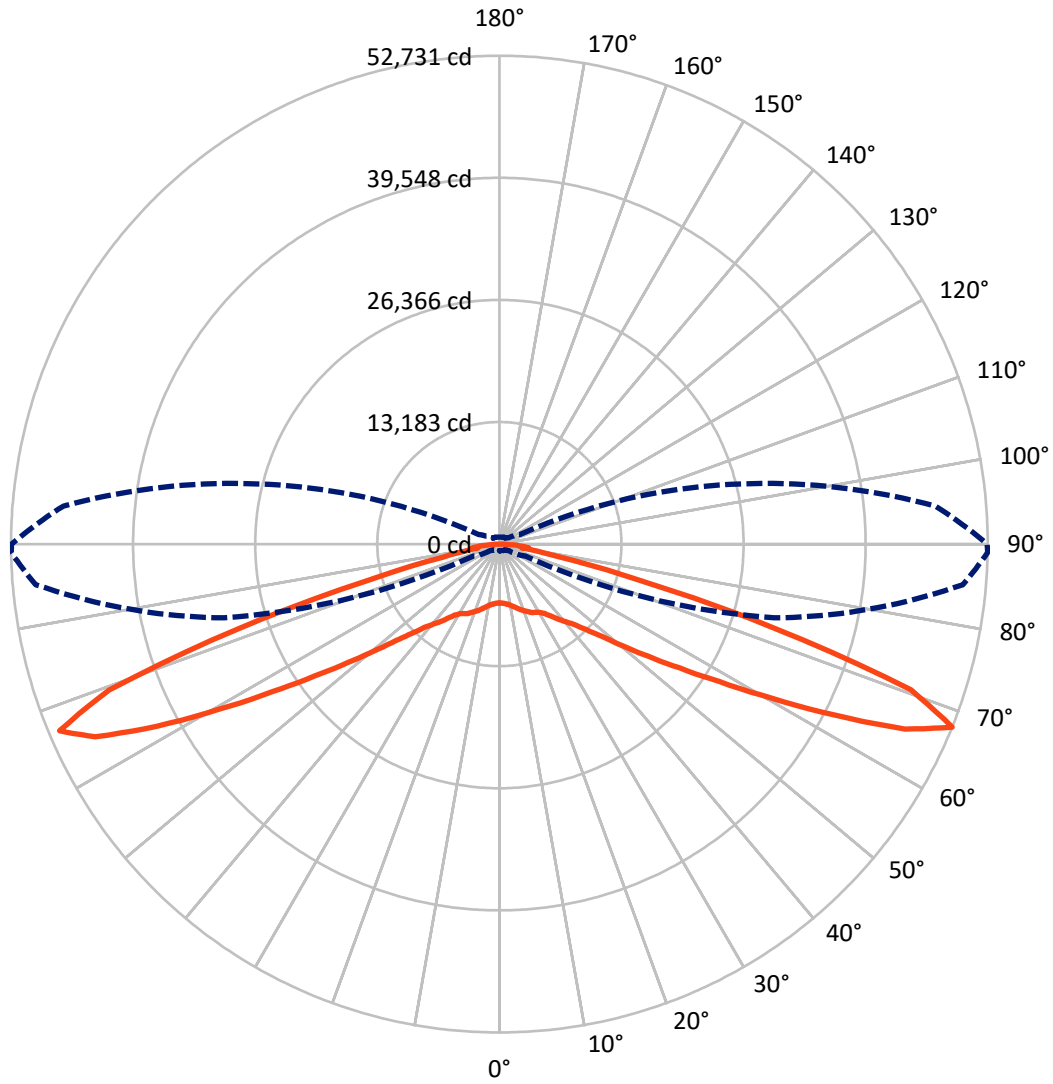
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type I - Medium - N/A

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CATALOG NUMBER: GWS-SA5E-760-U-T1-W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA5E-760-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18737.0	0.0	18737.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	19068.4	0.0	19068.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	37805.4	0.0	37805.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.5	1.7
10°-20°	2072.5	5.5
20°-30°	3503.5	9.3
30°-40°	4808.0	12.7
40°-50°	6131.3	16.2
50°-60°	7692.7	20.3
60°-70°	9278.0	24.5
70°-80°	3356.5	8.9
80°-90°	326.4	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°	37805.4	100.0
0°-180°	37805.4	100.0

Coefficient of Utilization



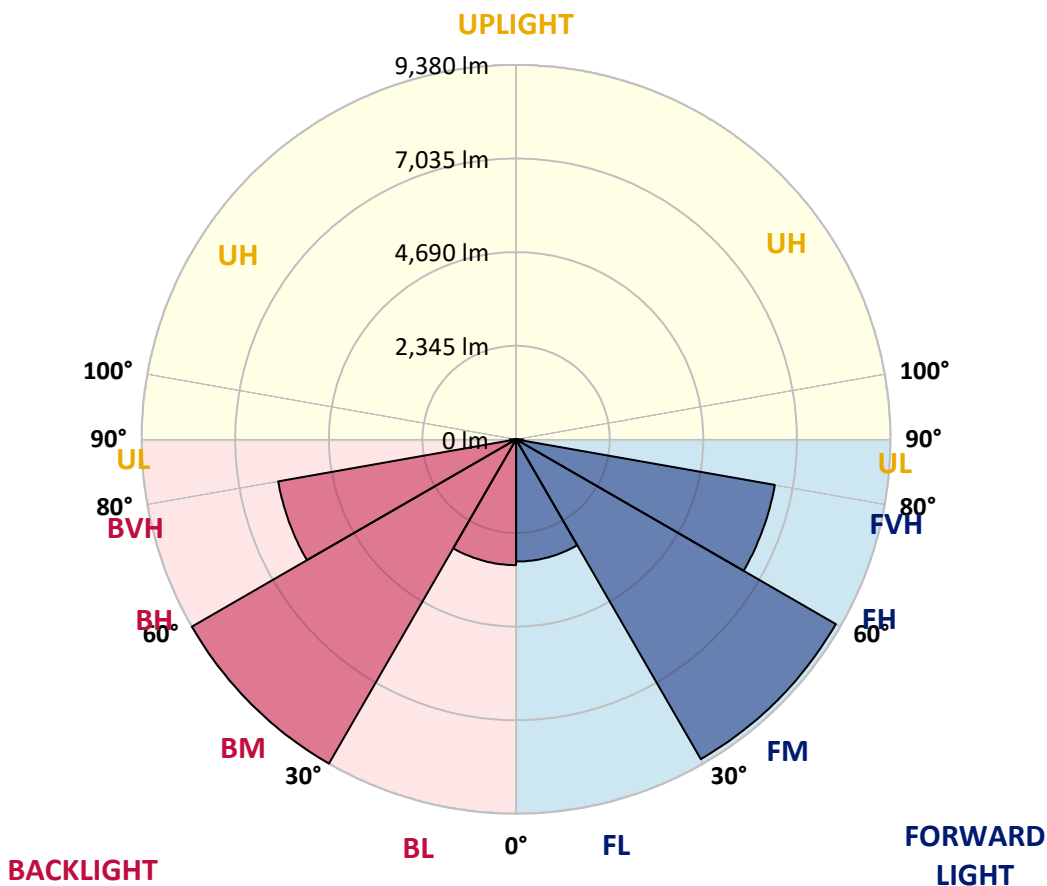
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3061.9	8.1			
FM (30°-60°)	9251.7	24.5			
FH (60°-80°)	6582.5	17.4			G3/7500
FVH (80°-90°)	172.2	0.5			G2/225
BL (0°-30°)	3150.5	8.3	B4/5000		
BM (30°-60°)	9380.3	24.8	B5		
BH (60°-80°)	6052.0	16.0	B5		G5
BVH (80°-90°)	154.2	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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 CATALOG NUMBER: GWS-SA5E-760-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3
2.5°	6364.3	6358.9	6345.3	6386.1	6377.9	6380.6	6396.9	6386.1	6367.1	6334.5	6380.6
5°	6543.5	6540.8	6511.0	6535.4	6508.2	6489.2	6486.5	6459.4	6437.6	6402.4	6451.2
7.5°	6717.3	6714.6	6690.2	6733.6	6711.9	6690.2	6665.7	6611.4	6559.8	6508.2	6562.5
10°	6850.4	6847.6	6842.2	6904.7	6910.1	6918.2	6907.4	6815.1	6725.5	6663.0	6717.3
12.5°	6926.4	6934.5	6948.1	7062.1	7119.2	7173.5	7187.0	7111.0	6961.7	6872.1	6937.2
15°	6874.8	6891.1	6959.0	7165.3	7322.8	7445.0	7496.6	7434.1	7241.3	7092.0	7165.3
17.5°	6627.7	6641.3	6774.3	7089.3	7436.8	7719.2	7803.4	7765.4	7550.9	7368.9	7439.5
20°	6285.6	6315.5	6459.4	6899.2	7417.8	7909.3	8134.6	8121.0	7887.5	7607.9	7692.1
22.5°	5976.1	6011.4	6163.4	6649.4	7290.2	7958.1	8468.6	8503.9	8194.4	7846.8	7914.7
25°	5628.5	5661.1	5856.6	6353.5	7070.3	7920.1	8753.7	8913.9	8541.9	8121.0	8183.5
27.5°	5272.8	5297.3	5490.1	6019.5	6782.5	7849.5	8979.0	9364.6	8884.0	8311.1	8354.6
30°	4960.6	4993.2	5169.7	5685.5	6467.5	7708.3	9163.7	9845.2	9277.7	8525.6	8560.9
32.5°	4659.2	4686.4	4879.1	5357.0	6133.5	7491.1	9329.3	10409.9	9861.5	8924.7	8924.7
35°	4279.1	4328.0	4545.2	5042.1	5818.6	7203.3	9448.8	11067.0	10659.7	9513.9	9516.6
37.5°	3928.8	3956.0	4184.1	4686.4	5487.3	6877.5	9459.6	11748.5	11669.8	10263.3	10268.7
40°	3529.7	3565.0	3809.4	4306.2	5107.2	6535.4	9356.4	12383.9	12728.7	11034.4	11004.5
42.5°	3125.2	3176.7	3410.2	3896.3	4697.2	6117.3	9082.2	12989.3	14072.7	11927.7	11854.4
45°	2734.2	2766.7	3000.3	3459.1	4227.5	5617.7	8642.4	13570.4	15669.2	13285.3	13179.4
47.5°	2294.3	2307.9	2549.5	2989.4	3741.5	5061.1	8012.4	14089.0	17423.2	15082.7	14900.8
50°	1903.3	1922.3	2112.4	2489.8	3146.9	4401.3	7227.8	14393.1	19657.8	17534.5	17219.6
52.5°	1539.5	1558.5	1710.6	2011.9	2601.1	3649.2	6255.7	14322.5	21924.9	20578.2	20119.3
55°	1243.5	1257.1	1360.3	1596.5	2047.2	2902.5	5107.2	13689.8	24441.9	24553.2	23564.9
57.5°	1050.8	1056.2	1126.8	1270.7	1599.2	2237.3	3942.4	12196.5	27081.0	29625.1	28001.5
60°	939.4	942.2	974.7	1064.3	1262.5	1707.8	2888.9	9818.0	29815.2	35970.5	33744.0
62.5°	868.9	868.9	896.0	947.6	1048.1	1314.1	2123.3	7051.3	31778.2	42875.1	40662.3
65°	801.0	801.0	820.0	863.4	917.7	1072.5	1593.8	4547.9	32742.1	48647.5	48156.1
67.5°	714.1	716.8	730.4	776.5	825.4	896.0	1208.2	3076.3	30741.1	50244.1	52731.1
70°	632.6	635.3	654.4	684.2	724.9	773.8	944.9	2120.5	22375.6	41846.1	47148.8
72.5°	543.0	553.9	567.5	600.1	624.5	659.8	771.1	1373.9	13019.2	26918.1	31167.3
75°	445.3	458.9	475.2	507.7	524.0	537.6	635.3	980.2	6263.9	13641.0	15533.4
77.5°	344.8	358.4	377.4	407.3	418.1	434.4	486.0	708.7	3000.3	6046.7	6519.1
80°	230.8	236.2	252.5	287.8	306.8	317.7	358.4	483.3	1303.3	2427.4	2405.6
82.5°	141.2	143.9	149.3	171.1	179.2	190.1	233.5	296.0	621.8	2758.6	3163.2
85°	51.6	48.9	46.2	59.7	70.6	81.5	108.6	149.3	271.5	1895.2	2120.5
87.5°	0.0	0.0	0.0	2.7	5.4	5.4	10.9	21.7	65.2	708.7	486.0
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°	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3	6345.3
2.5°	6367.1	6337.2	6375.2	6402.4	6462.1	6483.8	6489.2	6470.2	6470.2	6437.6	6443.1
5°	6440.4	6421.4	6483.8	6530.0	6616.8	6649.4	6671.2	6657.6	6665.7	6644.0	6649.4
7.5°	6551.7	6535.4	6644.0	6733.6	6823.2	6861.2	6880.2	6869.4	6872.1	6844.9	6853.1
10°	6706.4	6711.9	6842.2	6959.0	7078.4	7116.4	7124.6	7092.0	7064.8	7016.0	7018.7
12.5°	6918.2	6945.4	7130.0	7260.3	7382.5	7436.8	7377.1	7257.6	7146.3	7062.1	7051.3
15°	7149.0	7197.9	7464.0	7629.6	7762.6	7735.5	7559.0	7290.2	7070.3	6945.4	6920.9
17.5°	7426.0	7499.3	7833.2	8031.4	8145.5	7971.7	7602.5	7200.6	6893.8	6725.5	6692.9
20°	7686.6	7803.4	8224.2	8482.2	8495.7	8104.8	7583.4	7018.7	6633.1	6426.8	6383.3
22.5°	7925.6	8074.9	8634.2	8962.7	8786.3	8164.5	7466.7	6760.8	6318.2	6076.5	6038.5
25°	8186.2	8398.0	9112.1	9418.9	9076.8	8140.1	7222.3	6440.4	5938.1	5691.0	5663.8
27.5°	8365.4	8631.5	9592.7	9885.9	9315.7	8001.6	6907.4	6090.1	5590.5	5357.0	5319.0
30°	8571.8	8911.2	10122.1	10393.6	9462.3	7797.9	6570.7	5764.3	5267.4	5014.9	4987.8
32.5°	8946.5	9372.7	10779.2	10931.2	9508.5	7545.4	6247.6	5449.3	4930.7	4678.2	4640.2
35°	9549.2	10048.8	11702.3	11531.3	9473.2	7268.5	5940.8	5080.1	4585.9	4349.7	4311.7
37.5°	10309.5	10931.2	12731.4	12071.6	9375.5	6964.4	5576.9	4770.5	4276.4	4037.4	4015.7
40°	11018.1	11783.8	13885.3	12538.6	9177.2	6589.7	5226.7	4447.4	3942.4	3689.9	3641.0
42.5°	11906.0	12924.2	15221.2	12943.2	8851.4	6141.7	4833.0	4048.3	3524.3	3296.2	3236.5
45°	13255.4	14520.7	16774.3	13331.4	8365.4	5590.5	4338.8	3562.3	3065.4	2831.9	2785.8
47.5°	14938.8	16516.3	18457.7	13562.2	7626.9	5009.5	3779.5	3049.1	2552.3	2288.9	2267.2
50°	17303.7	19418.8	20263.2	13521.5	6801.5	4319.8	3149.6	2438.2	2022.8	1832.7	1802.9
52.5°	20184.5	23062.6	22215.4	13032.8	5924.5	3535.1	2454.5	1914.2	1604.7	1468.9	1444.5
55°	23798.4	27425.8	24270.8	11984.7	4816.7	2707.0	1927.8	1509.6	1297.8	1216.4	1205.5
57.5°	28273.0	33076.1	26250.2	10219.9	3622.0	2066.2	1485.2	1246.3	1145.8	1096.9	1094.2
60°	34178.4	39073.9	27968.9	7941.8	2593.0	1580.2	1227.3	1113.2	1034.5	1001.9	999.2
62.5°	41199.9	44520.5	29038.6	5408.6	1949.5	1259.8	1080.6	1010.0	963.9	944.9	942.2
65°	48416.8	47963.3	28528.2	3543.3	1479.8	1069.8	969.3	931.3	890.6	871.6	871.6
67.5°	52679.6	47235.7	24610.2	2459.9	1172.9	939.4	874.3	839.0	771.1	754.8	754.8
70°	46660.0	38275.6	16130.8	1800.2	950.3	822.7	760.2	711.4	684.2	667.9	665.2
72.5°	30860.5	24906.2	8577.2	1249.0	792.8	700.5	643.5	624.5	591.9	575.6	572.9
75°	15359.7	13081.6	4395.8	901.4	659.8	562.0	537.6	529.5	502.3	480.6	475.2
77.5°	6402.4	5824.0	2049.9	654.4	502.3	453.4	431.7	431.7	401.8	377.4	366.5
80°	2413.8	2150.4	969.3	448.0	372.0	336.7	323.1	312.2	287.8	257.9	241.6
82.5°	3228.3	2109.7	475.2	279.7	244.4	217.2	198.2	190.1	176.5	162.9	152.0
85°	2090.7	1498.8	214.5	143.9	122.2	92.3	81.5	76.0	67.9	59.7	54.3
87.5°	426.3	502.3	65.2	27.2	16.3	8.1	8.1	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)