

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: P643838

Luminaire Tested: GWS-SA6F-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51046.1 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 372.6
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

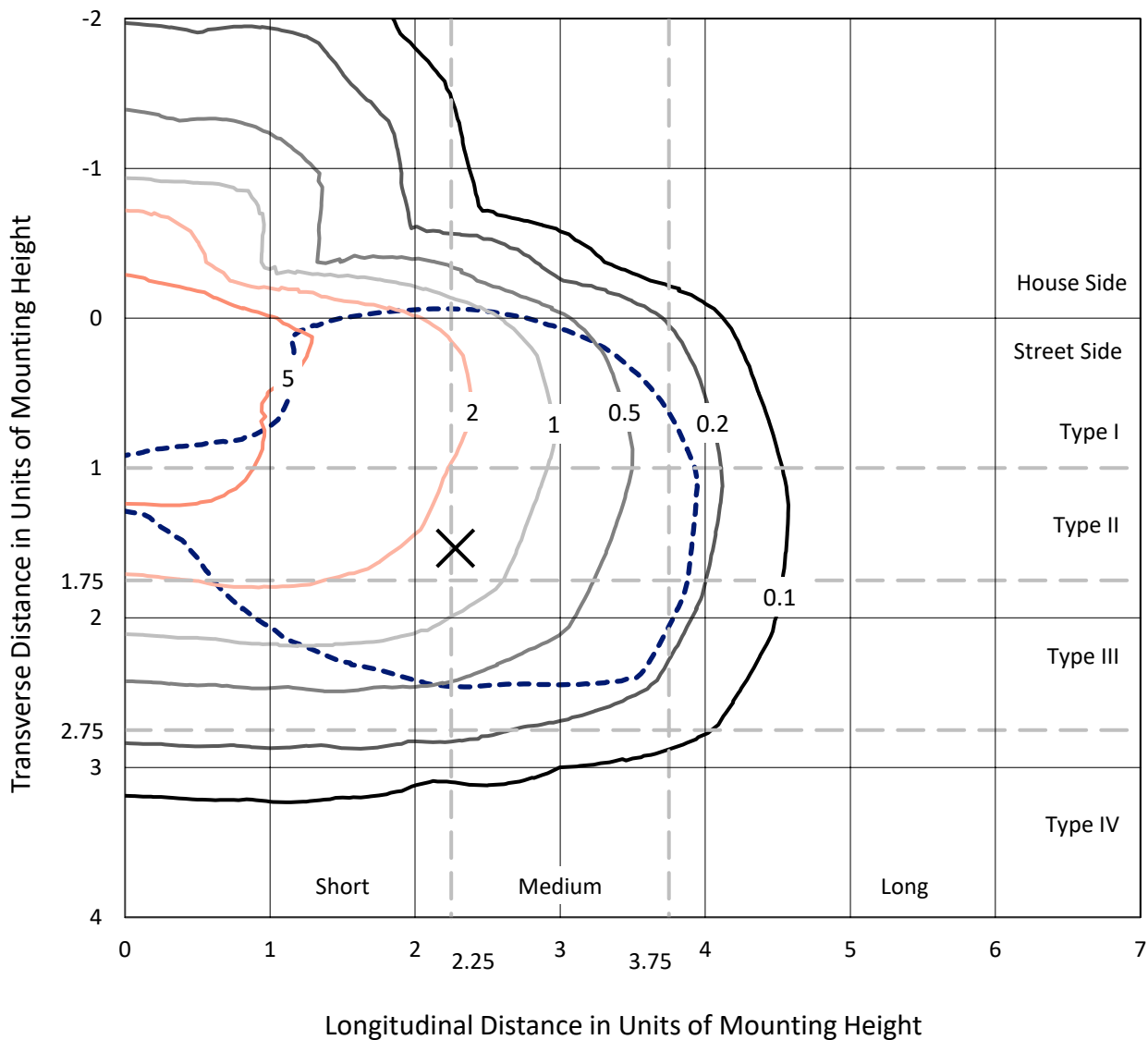


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Iso-Footcandle Lines of Horizontal Illumination

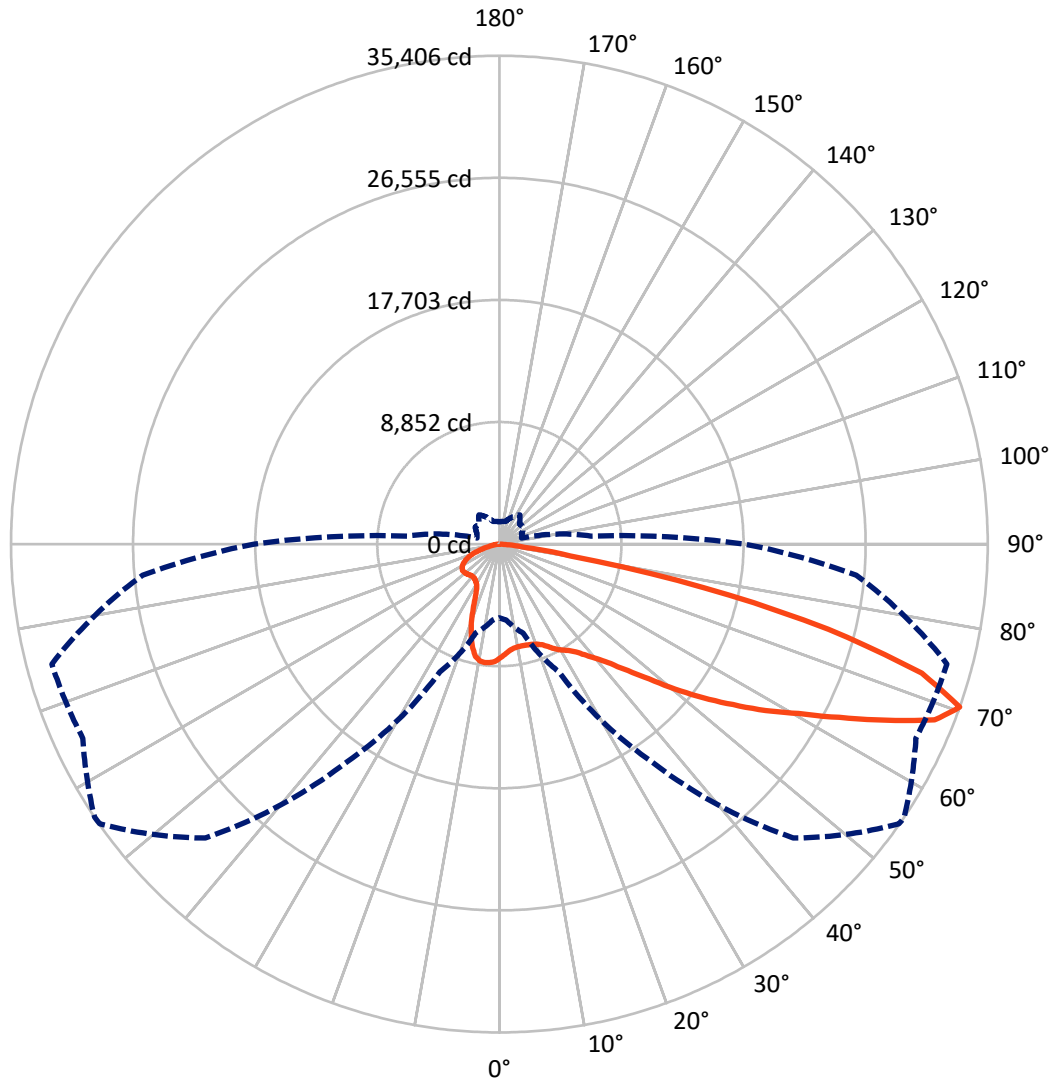
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9813.7	0.0	9813.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	41232.4	0.0	41232.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	51046.1	0.0	51046.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.5	1.5
10°-20°	2066.0	4.0
20°-30°	3415.6	6.7
30°-40°	5106.8	10.0
40°-50°	7599.6	14.9
50°-60°	10804.5	21.2
60°-70°	13381.7	26.2
70°-80°	7389.0	14.5
80°-90°	520.4	1.0
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°	51046.1	100.0
0°-180°	51046.1	100.0

Coefficient of Utilization



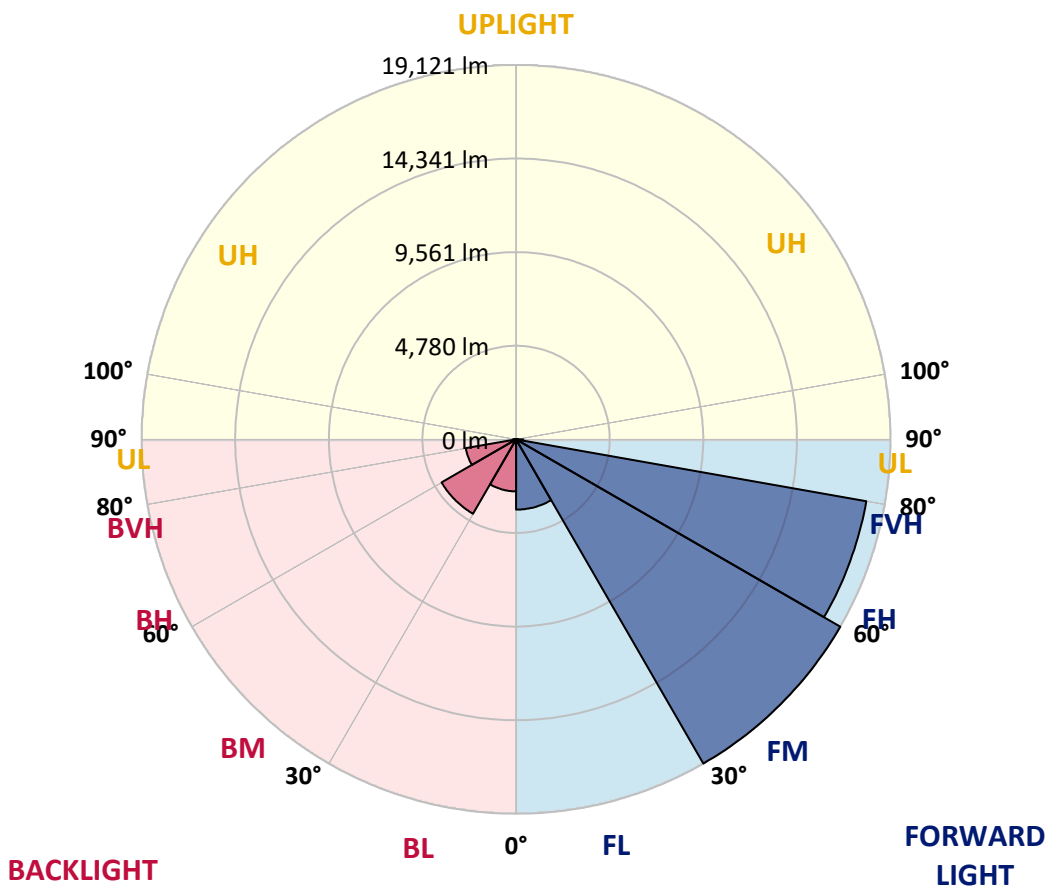
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3587.5	7.0			
FM (30°-60°)	19121.1	37.5			
FH (60°-80°)	18162.2	35.6			G5
FVH (80°-90°)	361.6	0.7			G3/500
BL (0°-30°)	2656.6	5.2	B4/5000		
BM (30°-60°)	4389.9	8.6	B3/5000		
BH (60°-80°)	2608.4	5.1	B4/5000		G4/5000
BVH (80°-90°)	158.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6
2.5°	7710.5	7667.3	7717.7	7742.9	7807.7	7901.3	7984.0	7987.6	8030.8	8135.2	8236.0
5°	7361.3	7339.7	7354.1	7429.7	7498.1	7616.9	7742.9	7753.7	7876.1	8081.2	8282.8
7.5°	7091.3	7062.5	7116.5	7213.7	7300.1	7433.3	7598.9	7613.3	7786.1	8095.6	8405.2
10°	6702.6	6681.0	6781.8	6911.4	7098.5	7318.1	7537.7	7555.7	7782.5	8189.2	8621.2
12.5°	6533.4	6533.4	6576.6	6699.0	6904.2	7195.7	7526.9	7555.7	7840.1	8333.2	8898.4
15°	6796.2	6814.2	6778.2	6771.0	6853.8	7130.9	7541.3	7584.5	7948.1	8480.8	9171.9
17.5°	7325.3	7343.3	7249.7	7102.1	7019.3	7192.1	7595.3	7642.1	8063.2	8642.8	9467.1
20°	8066.8	8088.4	7883.3	7656.5	7372.1	7368.5	7699.7	7742.9	8210.8	8819.2	9780.3
22.5°	8934.4	8948.8	8689.6	8329.6	7894.1	7696.1	7879.7	7922.9	8401.6	9063.9	10118.6
25°	9938.7	9981.9	9668.7	9146.7	8556.4	8146.0	8178.4	8228.8	8743.6	9391.5	10518.2
27.5°	11011.4	11065.4	10705.4	10129.4	9315.9	8642.8	8563.6	8606.8	9107.1	9593.1	10730.6
30°	12109.3	12148.9	11788.9	11130.2	10133.0	9204.3	8887.6	8912.8	9265.5	9690.3	10946.6
32.5°	13329.5	13297.2	12951.6	12192.1	11076.2	9877.5	9189.9	9182.7	9441.9	9884.7	11256.1
35°	14474.2	14521.0	14153.9	13315.1	12112.9	10709.0	9643.5	9614.7	9816.3	10201.4	11691.7
37.5°	15860.1	15845.7	15406.6	14499.4	13153.2	11504.5	10280.6	10230.2	10302.2	10694.6	12300.0
40°	16850.0	16950.8	16666.4	15820.5	14369.8	12483.6	11025.8	10914.2	10932.2	11302.9	13113.6
42.5°	17659.9	17753.5	17782.3	17242.4	15762.9	13693.1	11954.5	11842.9	11853.7	12379.2	14114.3
45°	18282.7	18408.7	18815.4	18657.0	17332.4	15089.8	13210.8	13095.6	13102.8	13685.9	15323.8
47.5°	18538.3	18675.0	19499.4	19877.3	18999.0	16760.0	14773.0	14603.8	14629.0	15273.4	16706.0
50°	18455.5	18639.0	19754.9	20816.8	20395.7	18459.1	16641.2	16522.4	16425.3	17361.2	18207.1
52.5°	17742.7	17944.3	19729.7	21414.4	21536.8	20064.5	18570.7	18502.3	18480.7	19578.6	19884.5
55°	15644.1	15982.5	18862.2	21572.8	22429.5	21576.4	20662.1	20546.9	20658.5	21954.3	21580.0
57.5°	14481.4	14733.4	17163.2	21396.4	23160.2	23016.2	22749.9	22760.7	22886.6	24535.3	23635.4
60°	13819.1	14114.3	16220.1	20914.0	23862.2	24765.7	24934.9	24934.9	25161.6	27317.8	25723.2
62.5°	12940.8	13239.6	15338.2	19985.3	24510.1	26824.7	27681.4	27670.6	27760.6	30302.0	27764.2
65°	11159.0	11436.1	13567.1	18520.3	24826.9	29092.5	30802.3	30769.9	30589.9	32958.5	29114.1
67.5°	8102.8	8365.6	10392.2	15734.1	23685.8	30921.1	34016.8	34031.2	32954.9	34632.3	29186.1
70°	5341.9	5521.9	6681.0	10219.4	19261.8	30132.8	35363.1	35406.3	33318.5	33588.4	25975.2
72.5°	3333.3	3459.3	4172.0	6094.2	11382.1	23851.4	31907.4	32026.2	29974.4	29517.2	21342.4
75°	2213.8	2300.2	2775.3	3552.9	5266.3	12908.4	24254.5	24636.1	24024.1	23138.6	14870.2
77.5°	1331.9	1403.9	1767.4	2257.0	2332.6	5043.1	14157.5	15143.8	15230.2	12080.5	6227.4
80°	608.3	691.1	975.5	1288.7	1241.9	1756.6	4992.7	5223.1	6162.6	3837.2	1965.4
82.5°	360.0	396.0	647.9	640.7	529.2	853.1	1796.2	1843.0	1565.9	1403.9	838.7
85°	144.0	169.2	273.6	241.2	194.4	277.2	676.7	709.1	680.3	611.9	309.6
87.5°	0.0	0.0	0.0	0.0	3.6	7.2	61.2	64.8	93.6	169.2	93.6
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°	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6	8239.6
2.5°	8300.8	8279.2	8387.2	8470.0	8506.0	8542.0	8509.6	8498.8	8498.8	8426.8	8390.8
5°	8390.8	8401.6	8549.2	8617.6	8617.6	8588.8	8502.4	8441.2	8419.6	8326.0	8300.8
7.5°	8560.0	8606.8	8743.6	8740.0	8639.2	8480.8	8264.8	8099.2	7948.1	7883.3	7843.7
10°	8837.2	8898.4	8992.0	8840.8	8560.0	8142.4	7685.3	7325.3	7109.3	6936.5	6936.5
12.5°	9153.9	9211.5	9193.5	8844.4	8264.8	7483.7	6825.0	6411.0	6108.6	5950.2	5950.2
15°	9470.7	9517.5	9323.1	8678.8	7649.3	6609.0	5889.0	5392.3	5129.5	4981.9	4981.9
17.5°	9791.1	9787.5	9377.1	8297.2	6846.6	5640.7	4935.1	4550.0	4460.0	4434.8	4431.2
20°	10100.7	10017.9	9308.7	7660.1	5914.2	4665.2	4218.8	4244.0	4377.2	4434.8	4442.0
22.5°	10449.8	10244.6	9107.1	6846.6	4855.9	3988.4	4017.2	4226.0	4420.4	4506.8	4517.6
25°	10806.2	10439.0	8768.8	5892.6	3970.4	3740.0	3963.2	4197.2	4416.8	4528.4	4539.2
27.5°	10950.2	10439.0	8192.8	4787.6	3498.9	3635.7	3880.4	4107.2	4337.6	4467.2	4492.4
30°	11069.0	10349.0	7386.5	3790.4	3304.5	3534.9	3747.2	3956.0	4182.8	4341.2	4370.0
32.5°	11234.5	10269.8	6411.0	3185.7	3214.5	3437.7	3585.3	3761.6	3966.8	4071.2	4060.4
35°	11428.9	10147.4	5233.9	2897.7	3138.9	3354.9	3459.3	3563.7	3470.1	3466.5	3477.3
37.5°	11706.1	10039.5	4208.0	2768.1	3088.5	3297.3	3383.7	3160.5	3030.9	2976.9	2955.3
40°	12105.7	9996.3	3318.9	2692.5	3081.3	3293.7	3232.5	2886.9	2710.5	2523.4	2519.8
42.5°	12609.6	9963.9	2742.9	2656.6	3106.5	3376.5	3023.7	2706.9	2343.4	2260.6	2253.4
45°	13257.6	9913.5	2455.0	2649.4	3167.7	3441.3	3002.1	2458.6	2210.2	2174.2	2174.2
47.5°	14038.7	9834.3	2325.4	2649.4	3236.1	3412.5	2937.3	2404.6	2149.0	2188.6	2213.8
50°	14935.0	9733.5	2257.0	2642.2	3304.5	3412.5	2800.5	2393.8	2134.6	2339.8	2422.6
52.5°	15892.5	9618.3	2210.2	2613.4	3351.3	3416.1	2807.7	2429.8	2149.0	2375.8	2444.2
55°	16950.8	9600.3	2145.4	2552.2	3365.7	3322.5	2825.7	2509.0	2170.6	2152.6	2156.2
57.5°	18286.3	9816.3	2098.6	2462.2	3308.1	3131.7	2861.7	2566.6	2145.4	2149.0	2174.2
60°	19683.0	10223.0	2138.2	2375.8	3189.3	2951.7	2886.9	2537.8	2023.0	1965.4	1972.6
62.5°	20870.8	10532.6	2170.6	2336.2	3016.5	2793.3	2861.7	2473.0	1954.6	1940.2	1972.6
65°	21367.6	10277.0	2091.4	2253.4	2764.5	2599.0	2807.7	2390.2	1897.0	1843.0	1846.6
67.5°	20816.8	9078.3	1936.6	2069.8	2480.2	2350.6	2721.3	2282.2	1817.8	1753.0	1738.6
70°	17782.3	6670.2	1670.2	1778.2	2134.6	2059.0	2588.2	2141.8	1691.8	1645.0	1612.6
72.5°	14330.3	4722.8	1385.9	1414.7	1673.8	1735.0	2357.8	1965.4	1547.9	1414.7	1367.9
75°	9974.7	2966.1	1155.5	1126.7	1209.5	1324.7	1839.4	1630.6	1335.5	1195.1	1151.9
77.5°	4290.8	1522.7	903.5	889.1	806.3	917.9	1411.1	1360.7	1119.5	957.5	932.3
80°	1436.3	881.9	651.5	626.3	536.3	644.3	993.5	1087.1	878.3	709.1	665.9
82.5°	719.9	511.2	414.0	374.4	360.0	406.8	586.7	676.7	608.3	489.6	414.0
85°	352.8	291.6	226.8	223.2	187.2	176.4	244.8	288.0	273.6	201.6	190.8
87.5°	129.6	115.2	72.0	57.6	36.0	25.2	14.4	14.4	10.8	10.8	10.8
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)