

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: P643178

Luminaire Tested: GWS-SA6E-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643178
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-SAGE-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44883.7 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 323.8
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

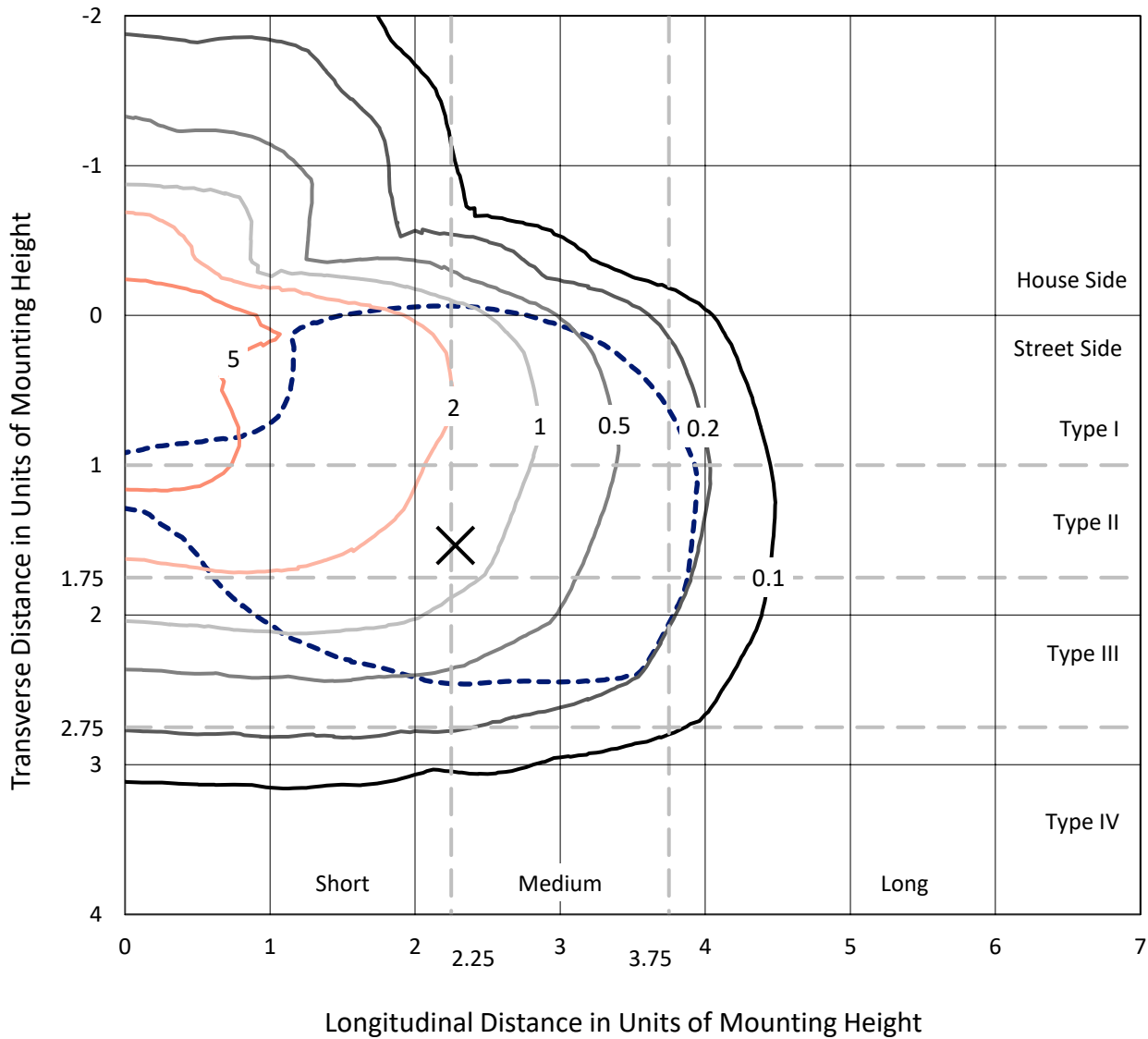


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Iso-Footcandle Lines of Horizontal Illumination

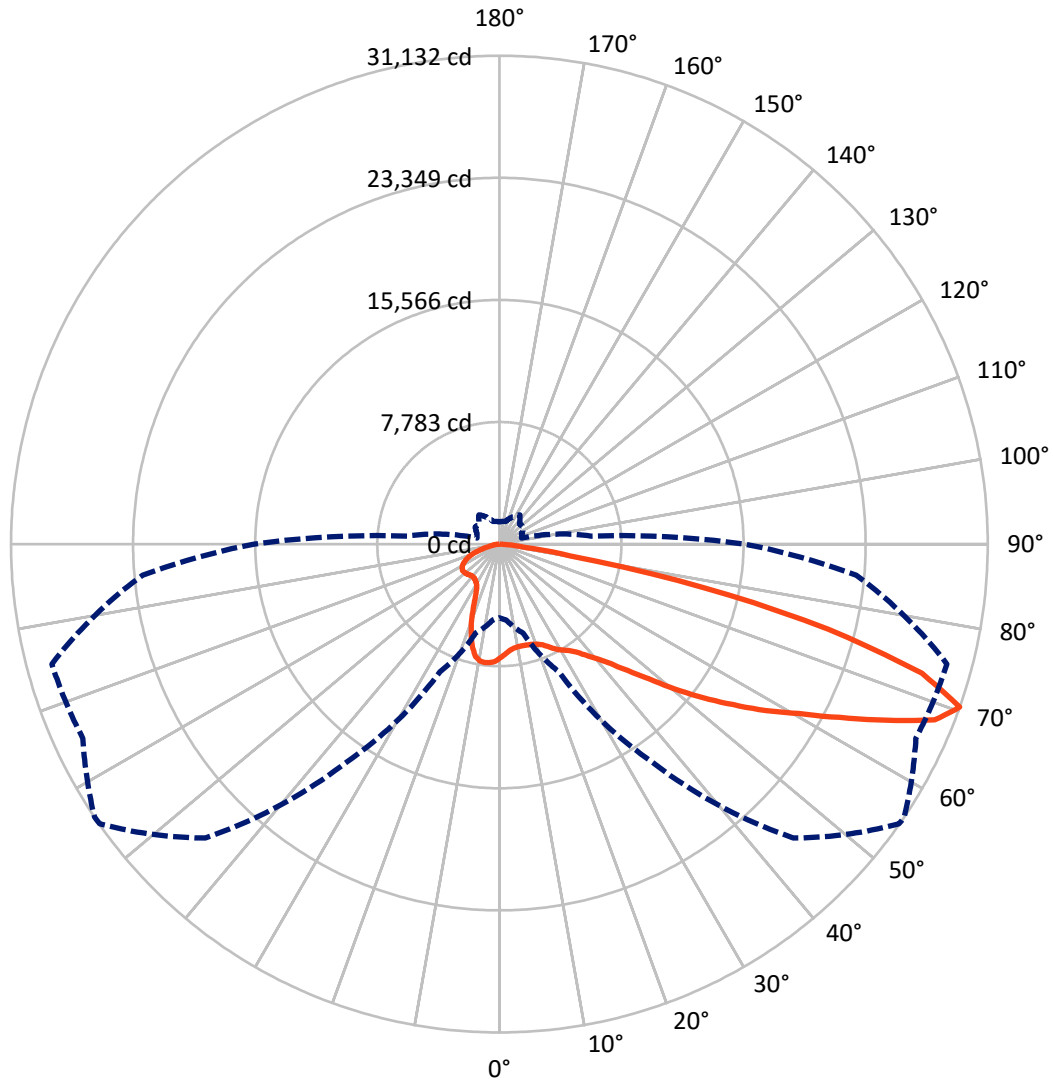
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	8629.0	0.0	8629.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	36254.7	0.0	36254.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	44883.7	0.0	44883.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.4	1.5
10°-20°	1816.6	4.0
20°-30°	3003.3	6.7
30°-40°	4490.3	10.0
40°-50°	6682.2	14.9
50°-60°	9500.1	21.2
60°-70°	11766.2	26.2
70°-80°	6496.9	14.5
80°-90°	457.6	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°	44883.7	100.0
0°-180°	44883.7	100.0

Coefficient of Utilization



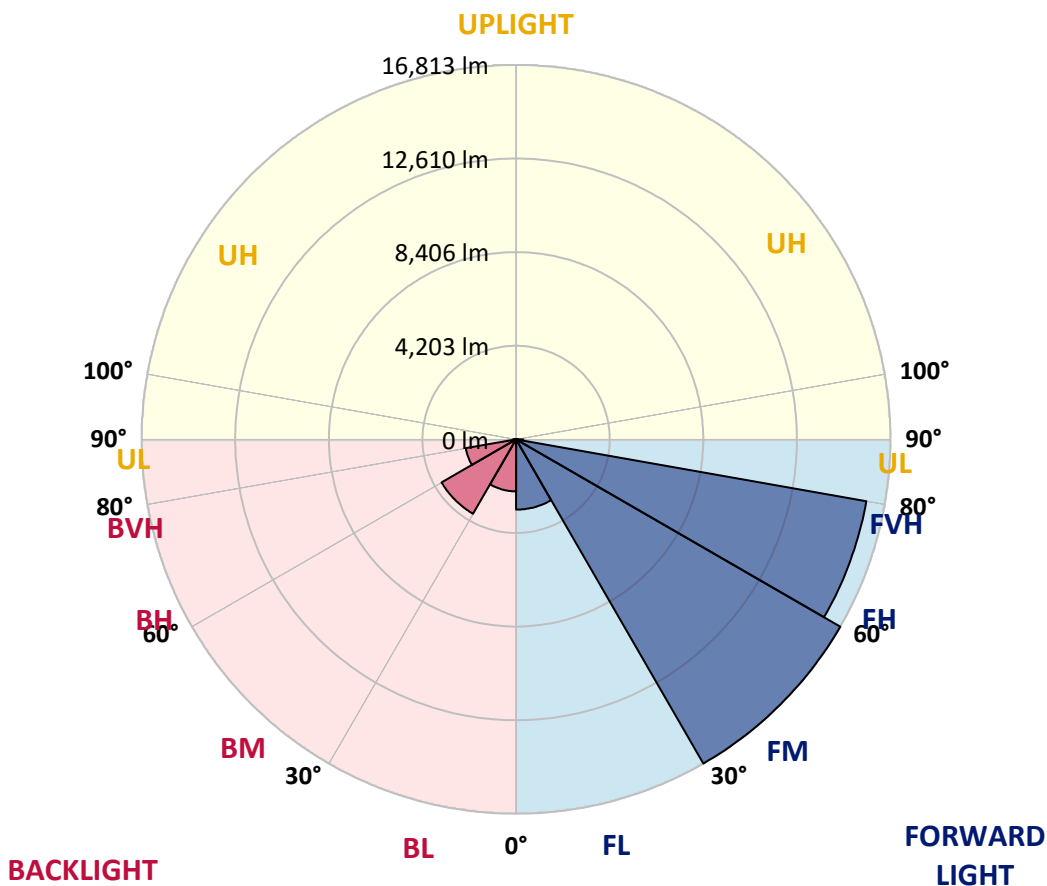
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.4	7.0			
FM (30°-60°)	16812.8	37.5			
FH (60°-80°)	15969.7	35.6			G5
FVH (80°-90°)	318.0	0.7			G3/500
BL (0°-30°)	2335.9	5.2	B3/2500		
BM (30°-60°)	3859.9	8.6	B3/5000		
BH (60°-80°)	2293.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	139.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9
2.5°	6779.6	6741.7	6786.0	6808.1	6865.1	6947.4	7020.2	7023.4	7061.3	7153.1	7241.8
5°	6472.6	6453.6	6466.3	6532.8	6592.9	6697.4	6808.1	6817.6	6925.2	7105.7	7282.9
7.5°	6235.3	6209.9	6257.4	6342.9	6418.8	6535.9	6681.5	6694.2	6846.1	7118.3	7390.5
10°	5893.4	5874.4	5963.1	6077.0	6241.6	6434.7	6627.7	6643.6	6843.0	7200.6	7580.4
12.5°	5744.7	5744.7	5782.6	5890.3	6070.7	6327.0	6618.2	6643.6	6893.6	7327.2	7824.1
15°	5975.7	5991.5	5959.9	5953.6	6026.4	6270.1	6630.9	6668.9	6988.5	7457.0	8064.7
17.5°	6441.0	6456.8	6374.5	6244.7	6171.9	6323.9	6678.4	6719.5	7089.8	7599.4	8324.2
20°	7093.0	7112.0	6931.6	6732.2	6482.1	6479.0	6770.2	6808.1	7219.6	7754.5	8599.6
22.5°	7855.8	7868.4	7640.6	7324.0	6941.1	6767.0	6928.4	6966.4	7387.3	7969.7	8897.1
25°	8738.8	8776.8	8501.5	8042.5	7523.4	7162.6	7191.1	7235.4	7688.0	8257.8	9248.4
27.5°	9682.0	9729.5	9413.0	8906.6	8191.3	7599.4	7529.8	7567.8	8007.7	8435.0	9435.2
30°	10647.4	10682.2	10365.7	9786.5	8909.8	8093.2	7814.6	7836.8	8147.0	8520.5	9625.1
32.5°	11720.4	11691.9	11388.0	10720.2	9739.0	8685.0	8080.5	8074.2	8302.1	8691.4	9897.3
35°	12726.9	12768.0	12445.2	11707.7	10650.6	9416.2	8479.3	8454.0	8631.2	8969.9	10280.3
37.5°	13945.4	13932.8	13546.6	12749.0	11565.3	10115.7	9039.5	8995.2	9058.5	9403.5	10815.2
40°	14815.8	14904.5	14654.4	13910.6	12635.1	10976.6	9694.7	9596.6	9612.4	9938.4	11530.5
42.5°	15528.0	15610.3	15635.6	15160.8	13860.0	12040.0	10511.3	10413.2	10422.7	10884.8	12410.4
45°	16075.6	16186.3	16544.0	16404.7	15240.0	13268.1	11615.9	11514.6	11521.0	12033.7	13473.8
47.5°	16300.3	16420.6	17145.4	17477.7	16705.4	14736.7	12989.6	12840.8	12863.0	13429.5	14689.2
50°	16227.5	16388.9	17370.1	18303.8	17933.5	16230.6	14632.3	14527.8	14442.4	15265.3	16009.1
52.5°	15600.8	15778.0	17347.9	18829.2	18936.8	17642.3	16328.8	16268.6	16249.6	17215.0	17484.0
55°	13755.5	14053.1	16585.1	18968.5	19721.8	18971.6	18167.7	18066.4	18164.5	19304.0	18974.8
57.5°	12733.2	12954.8	15091.2	18813.4	20364.3	20237.7	20003.4	20012.9	20123.7	21573.3	20782.1
60°	12150.8	12410.4	14262.0	18389.2	20981.5	21775.9	21924.7	21924.7	22124.1	24020.0	22617.8
62.5°	11378.5	11641.2	13486.5	17572.6	21551.2	23586.3	24339.6	24330.1	24409.3	26643.8	24412.4
65°	9811.8	10055.5	11929.3	16284.5	21829.7	25580.4	27083.8	27055.3	26897.0	28979.7	25599.3
67.5°	7124.6	7355.7	9137.7	13834.7	20826.4	27188.2	29910.2	29922.9	28976.5	30451.5	25662.7
70°	4697.0	4855.3	5874.4	8985.7	16936.5	26495.1	31094.0	31131.9	29296.2	29533.6	22839.4
72.5°	2930.9	3041.7	3668.4	5358.5	10008.1	20972.0	28055.5	28159.9	26355.8	25953.8	18765.9
75°	1946.5	2022.5	2440.3	3124.0	4630.5	11350.1	21326.5	21662.0	21123.9	20345.3	13075.0
77.5°	1171.1	1234.4	1554.1	1984.5	2051.0	4434.3	12448.3	13315.6	13391.5	10622.1	5475.6
80°	534.9	607.7	857.7	1133.1	1092.0	1544.6	4390.0	4592.6	5418.7	3374.0	1728.1
82.5°	316.5	348.2	569.7	563.4	465.3	750.1	1579.4	1620.5	1376.8	1234.4	737.5
85°	126.6	148.8	240.5	212.1	170.9	243.7	595.0	623.5	598.2	538.1	272.2
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	53.8	57.0	82.3	148.8	82.3
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°	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9	7244.9
2.5°	7298.7	7279.7	7374.7	7447.5	7479.1	7510.8	7482.3	7472.8	7472.8	7409.5	7377.9
5°	7377.9	7387.3	7517.1	7577.3	7577.3	7551.9	7476.0	7422.2	7403.2	7320.9	7298.7
7.5°	7526.6	7567.8	7688.0	7684.9	7596.2	7457.0	7267.1	7121.5	6988.5	6931.6	6896.8
10°	7770.3	7824.1	7906.4	7773.5	7526.6	7159.5	6757.5	6441.0	6251.1	6099.2	6099.2
12.5°	8048.9	8099.5	8083.7	7776.7	7267.1	6580.2	6001.0	5637.0	5371.2	5231.9	5231.9
15°	8327.4	8368.5	8197.6	7631.1	6725.8	5811.1	5178.1	4741.3	4510.3	4380.5	4380.5
17.5°	8609.1	8605.9	8245.1	7295.6	6020.0	4959.7	4339.4	4000.7	3921.6	3899.4	3896.2
20°	8881.3	8808.5	8185.0	6735.3	5200.3	4102.0	3709.5	3731.7	3848.8	3899.4	3905.7
22.5°	9188.3	9007.9	8007.7	6020.0	4269.7	3506.9	3532.3	3715.8	3886.7	3962.7	3972.2
25°	9501.6	9178.8	7710.2	5181.3	3491.1	3288.5	3484.8	3690.5	3883.6	3981.7	3991.2
27.5°	9628.2	9178.8	7203.8	4209.6	3076.5	3196.8	3412.0	3611.4	3813.9	3927.9	3950.0
30°	9732.7	9099.7	6494.8	3332.9	2905.6	3108.1	3294.9	3478.4	3677.8	3817.1	3842.4
32.5°	9878.3	9030.0	5637.0	2801.1	2826.4	3022.7	3152.4	3307.5	3487.9	3579.7	3570.2
35°	10049.2	8922.4	4602.1	2547.9	2760.0	2949.9	3041.7	3133.5	3051.2	3048.0	3057.5
37.5°	10292.9	8827.5	3700.0	2434.0	2715.7	2899.2	2975.2	2779.0	2665.0	2617.5	2598.5
40°	10644.2	8789.5	2918.2	2367.5	2709.3	2896.1	2842.3	2538.4	2383.3	2218.7	2215.6
42.5°	11087.4	8761.0	2411.8	2335.8	2731.5	2968.9	2658.7	2380.2	2060.5	1987.7	1981.4
45°	11657.1	8716.7	2158.6	2329.5	2785.3	3025.8	2639.7	2161.8	1943.4	1911.7	1911.7
47.5°	12343.9	8647.1	2044.7	2329.5	2845.4	3000.5	2582.7	2114.3	1889.6	1924.4	1946.5
50°	13132.0	8558.4	1984.5	2323.2	2905.6	3000.5	2462.4	2104.8	1876.9	2057.3	2130.1
52.5°	13973.9	8457.2	1943.4	2297.9	2946.7	3003.7	2468.8	2136.4	1889.6	2089.0	2149.1
55°	14904.5	8441.3	1886.4	2244.1	2959.4	2921.4	2484.6	2206.1	1908.6	1892.7	1895.9
57.5°	16078.7	8631.2	1845.3	2164.9	2908.7	2753.6	2516.3	2256.7	1886.4	1889.6	1911.7
60°	17306.8	8988.9	1880.1	2089.0	2804.3	2595.4	2538.4	2231.4	1778.8	1728.1	1734.5
62.5°	18351.3	9261.1	1908.6	2054.2	2652.4	2456.1	2516.3	2174.4	1718.7	1706.0	1734.5
65°	18788.0	9036.4	1838.9	1981.4	2430.8	2285.2	2468.8	2101.6	1668.0	1620.5	1623.7
67.5°	18303.8	7982.4	1702.8	1819.9	2180.8	2066.8	2392.8	2006.7	1598.4	1541.4	1528.7
70°	15635.6	5864.9	1468.6	1563.6	1876.9	1810.4	2275.7	1883.2	1487.6	1446.5	1418.0
72.5°	12600.3	4152.6	1218.6	1243.9	1471.8	1525.6	2073.1	1728.1	1361.0	1243.9	1202.7
75°	8770.5	2608.0	1016.0	990.7	1063.5	1164.8	1617.4	1433.8	1174.3	1050.8	1012.8
77.5°	3772.8	1338.8	794.4	781.8	709.0	807.1	1240.7	1196.4	984.3	841.9	819.8
80°	1262.9	775.5	572.9	550.7	471.6	566.6	873.6	955.9	772.3	623.5	585.5
82.5°	633.0	449.4	364.0	329.2	316.5	357.7	515.9	595.0	534.9	430.5	364.0
85°	310.2	256.4	199.4	196.2	164.6	155.1	215.2	253.2	240.5	177.2	167.8
87.5°	113.9	101.3	63.3	50.6	31.7	22.2	12.7	12.7	9.5	9.5	9.5
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)