

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: P642150

Luminaire Tested: GWS-SA6C-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28518.5 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

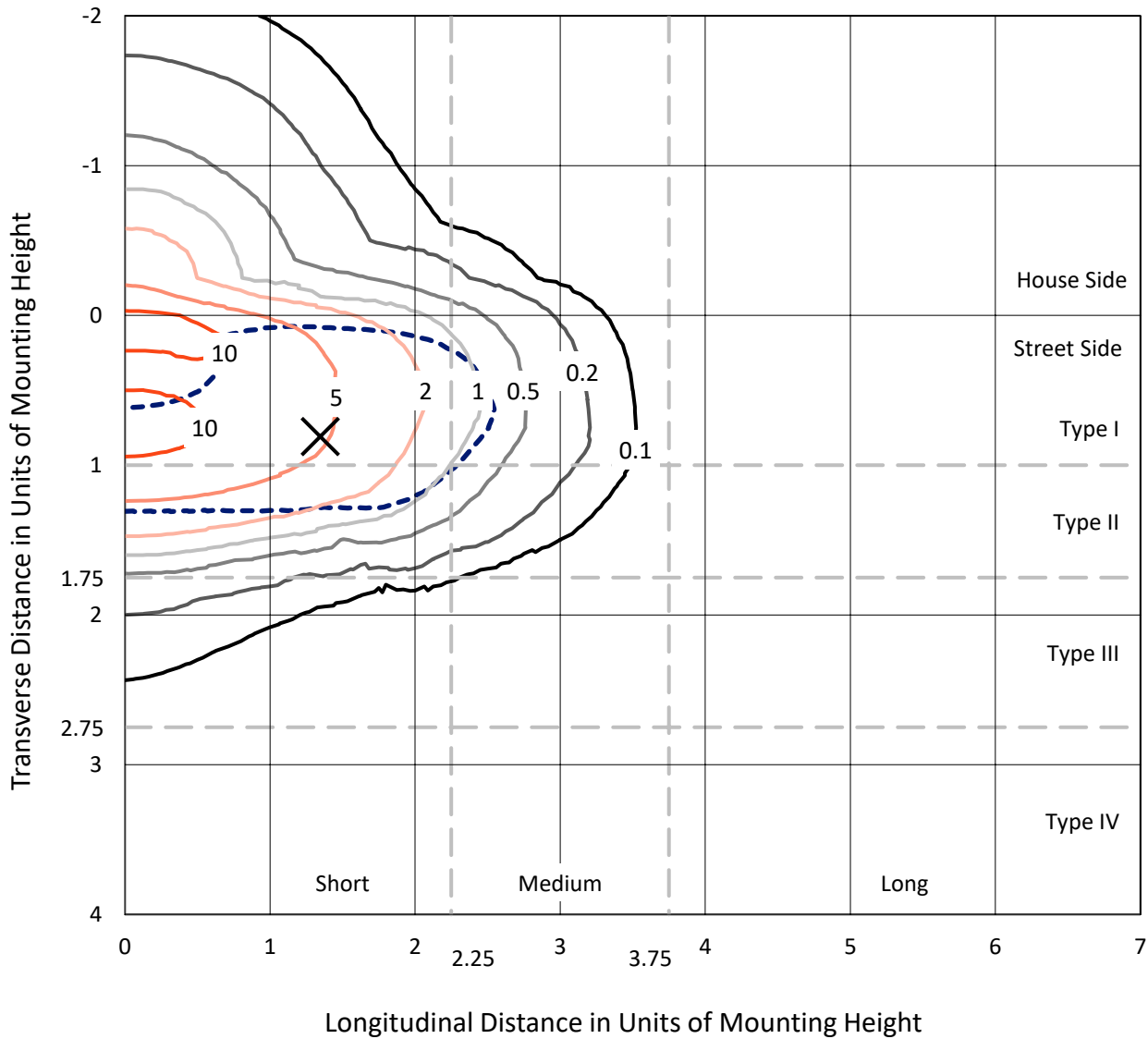
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

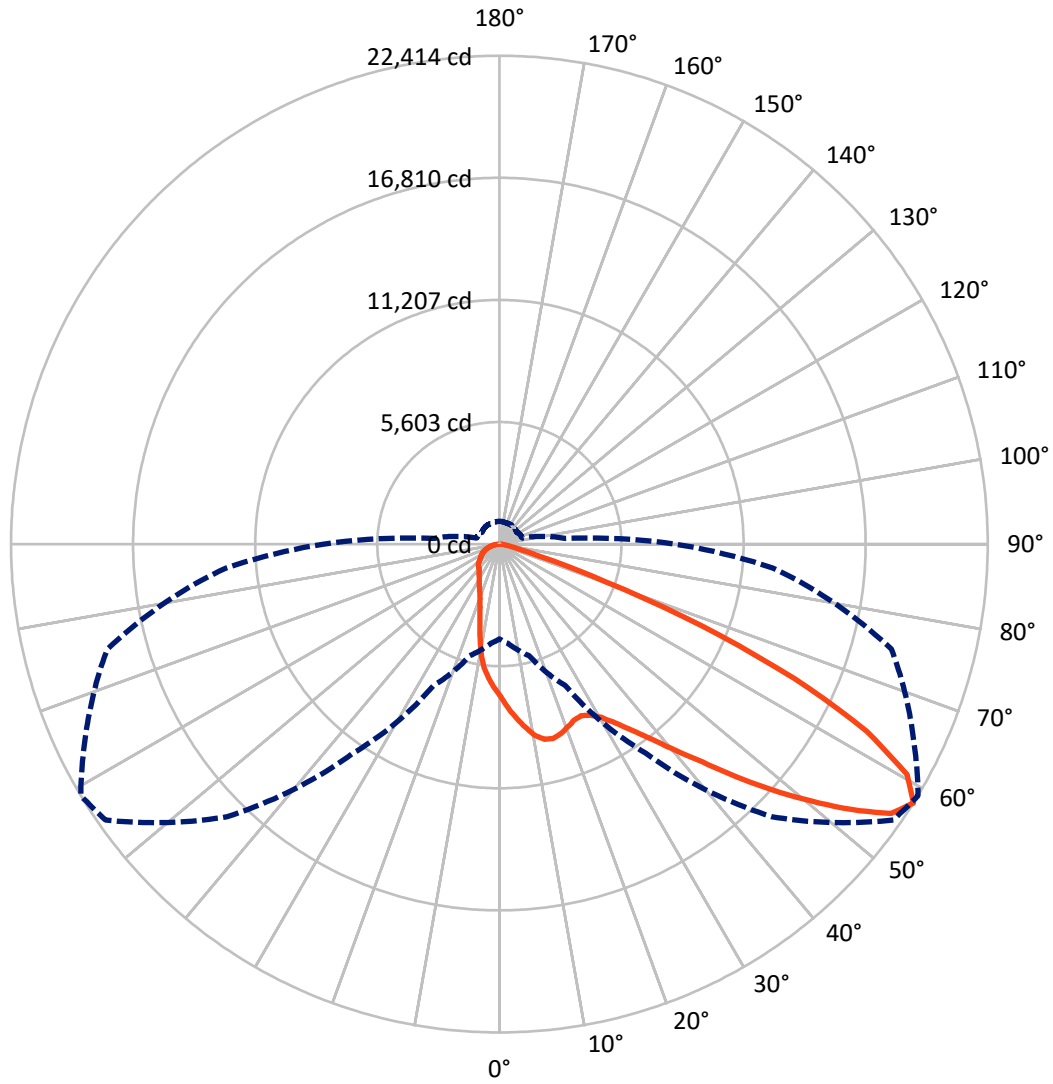
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4425.9	0.0	4425.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	24092.6	0.0	24092.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	28518.5	0.0	28518.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.0	2.3
10°-20°	1647.2	5.8
20°-30°	2670.1	9.4
30°-40°	4295.2	15.1
40°-50°	6670.0	23.4
50°-60°	7184.5	25.2
60°-70°	4169.6	14.6
70°-80°	1088.5	3.8
80°-90°	143.4	0.5
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°	28518.5	100.0
0°-180°	28518.5	100.0

Coefficient of Utilization



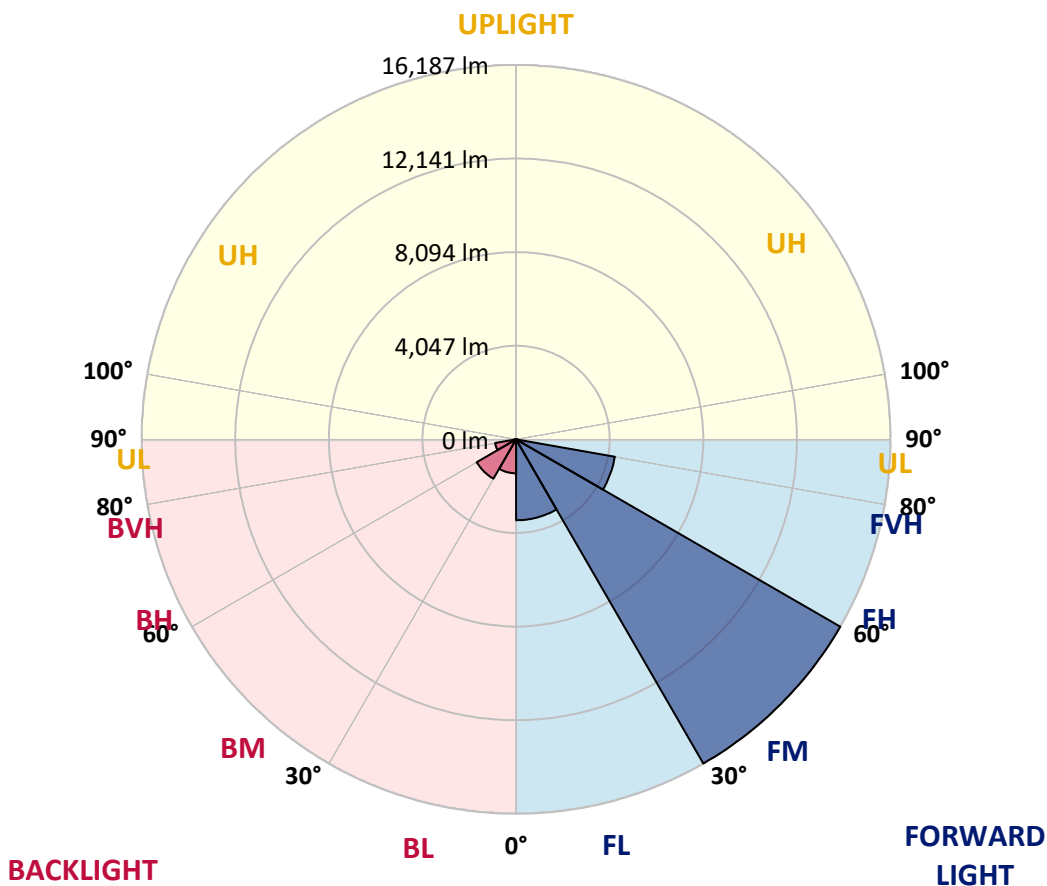
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.0	12.3			
FM (30°-60°)	16187.4	56.8			
FH (60°-80°)	4337.5	15.2			G2/5000
FVH (80°-90°)	68.7	0.2			G1/100
BL (0°-30°)	1468.3	5.1	B3/2500		
BM (30°-60°)	1962.3	6.9	B2/2500		
BH (60°-80°)	920.6	3.2	B2/1000		G2/1000
BVH (80°-90°)	74.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7
2.5°	7940.3	7874.1	7920.2	7837.9	7803.8	7713.4	7597.0	7518.7	7398.2	7241.6	7105.1
5°	8729.3	8683.1	8693.2	8604.8	8526.5	8376.0	8137.1	8004.6	7799.8	7484.6	7191.4
7.5°	8705.2	8759.4	8789.5	8865.8	8887.9	8873.9	8659.1	8474.3	8249.5	7775.7	7334.0
10°	7803.8	7906.2	7998.5	8259.5	8576.7	8978.3	9028.5	8918.0	8691.2	8147.1	7504.6
12.5°	6822.0	6900.3	6982.7	7295.8	7781.7	8584.8	9128.8	9197.1	9106.8	8514.5	7697.4
15°	6340.2	6376.3	6454.6	6661.4	7048.9	7940.3	8954.2	9253.3	9415.9	8904.0	7914.2
17.5°	6320.1	6336.2	6374.3	6484.8	6753.8	7442.4	8639.0	9140.9	9658.9	9315.6	8167.2
20°	6735.7	6693.5	6669.5	6667.4	6800.0	7275.8	8333.8	8960.2	9773.3	9737.2	8438.2
22.5°	7311.9	7326.0	7273.8	7145.3	7129.2	7394.2	8181.2	8777.5	9807.4	10110.6	8689.2
25°	8129.0	8199.3	8044.7	7799.8	7679.3	7737.5	8275.6	8721.3	9803.4	10421.8	8845.8
27.5°	9082.7	9136.9	8980.3	8659.1	8410.1	8269.6	8556.7	8887.9	9837.5	10690.8	8940.1
30°	10168.8	10186.9	9972.1	9634.8	9271.4	8970.2	9024.4	9231.2	10012.2	11044.2	9050.5
32.5°	11495.9	11572.2	11246.9	10712.9	10205.0	9819.5	9652.8	9785.4	10389.7	11461.7	9221.2
35°	13180.3	13206.4	12792.8	12027.9	11309.2	10775.1	10425.8	10496.1	10963.8	12046.0	9478.2
37.5°	14768.4	14794.5	14354.8	13644.1	12616.2	11885.4	11379.4	11347.3	11698.7	12871.1	9897.8
40°	15776.2	15850.5	15653.7	15208.0	14226.3	13240.5	12553.9	12443.5	12662.3	13881.0	10482.0
42.5°	16318.3	16350.4	16346.4	16404.6	15820.4	14840.6	13879.0	13658.1	13804.7	14971.1	11072.3
45°	16322.3	16402.6	16617.4	17177.6	17203.7	16593.3	15553.4	15208.0	15073.5	16069.3	11688.6
47.5°	15591.5	15677.8	16268.1	17370.3	18183.4	18321.9	17559.0	16866.4	16300.2	17014.9	12194.5
50°	13379.1	13595.9	14720.2	16669.6	18376.1	19707.2	19472.3	18532.7	17390.4	17745.7	12511.8
52.5°	11457.7	11449.7	12142.3	14690.1	17571.1	20317.6	21323.4	20247.3	18468.5	18209.5	12592.1
55°	8390.0	8436.2	9144.9	11234.9	15422.9	19727.3	22341.3	21825.3	19705.2	18456.4	12559.9
57.5°	4350.6	4579.5	5306.3	7169.4	11718.7	17695.5	22070.2	22413.6	20962.0	18631.1	12602.1
60°	2198.4	2154.2	2415.2	3423.1	6789.9	13820.8	20399.9	21494.0	21188.9	18767.6	12628.2
62.5°	1467.6	1455.6	1383.3	1586.1	2774.6	8185.2	17390.4	18924.2	19612.9	18446.4	12294.9
65°	1270.9	1246.8	1114.3	1106.2	1347.1	3395.0	12746.7	14876.8	16209.9	17019.0	11497.9
67.5°	1144.4	1108.2	973.7	907.5	967.7	1491.7	7183.4	9978.1	11969.7	14392.9	9751.2
70°	1021.9	1003.8	869.3	773.0	766.9	909.5	2646.1	5149.7	7324.0	9819.5	7129.2
72.5°	915.5	883.4	768.9	676.6	630.4	644.5	1148.4	1983.6	3790.5	6125.4	4264.3
75°	793.0	768.9	668.6	576.2	520.0	471.8	700.7	917.5	1728.6	2911.1	2013.7
77.5°	612.3	596.3	528.0	457.7	425.6	351.3	425.6	578.2	799.0	1226.7	1048.0
80°	355.4	365.4	393.5	357.4	313.2	251.0	277.1	333.3	479.8	664.5	594.3
82.5°	178.7	190.7	255.0	206.8	186.7	146.6	164.6	196.8	251.0	367.4	232.9
85°	14.1	14.1	46.2	52.2	64.2	52.2	66.3	80.3	114.4	146.6	78.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.0	18.1	34.1	22.1
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°	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7	7000.7
2.5°	7012.8	6910.4	6787.9	6687.5	6532.9	6450.6	6346.2	6217.7	6165.5	6141.4	6127.4
5°	7026.8	6846.1	6585.1	6344.2	6077.2	5866.4	5631.5	5386.6	5246.0	5211.9	5187.8
7.5°	7079.0	6826.1	6410.5	6013.0	5517.1	5057.3	4609.6	4165.9	3939.0	3852.7	3844.7
10°	7151.3	6818.0	6233.8	5573.3	4736.1	4009.3	3485.3	3138.0	2991.4	2943.2	2927.2
12.5°	7241.6	6812.0	6000.9	4962.9	3834.6	3148.0	2848.9	2792.7	2812.7	2808.7	2808.7
15°	7356.1	6820.0	5719.8	4272.3	3101.8	2732.4	2738.5	2804.7	2866.9	2877.0	2877.0
17.5°	7480.6	6812.0	5312.3	3579.7	2662.2	2634.1	2726.4	2818.8	2875.0	2883.0	2883.0
20°	7615.1	6773.9	4798.3	2927.2	2469.4	2571.8	2672.2	2744.5	2778.6	2786.6	2786.6
22.5°	7695.4	6665.4	4240.2	2477.5	2347.0	2473.4	2539.7	2614.0	2618.0	2553.7	2551.7
25°	7683.3	6462.7	3603.8	2188.4	2216.5	2326.9	2411.2	2359.0	2294.8	2258.6	2252.6
27.5°	7607.0	6157.5	2955.3	1969.5	2061.9	2186.3	2160.2	2116.1	2100.0	2059.9	2055.8
30°	7510.7	5782.1	2373.1	1798.9	1901.3	2015.7	1975.5	1971.5	1955.5	1911.3	1911.3
32.5°	7418.3	5394.6	1933.4	1672.4	1798.9	1806.9	1863.1	1867.1	1859.1	1782.8	1774.8
35°	7392.2	5007.1	1636.2	1572.0	1698.5	1694.5	1774.8	1772.8	1634.2	1527.8	1525.8
37.5°	7470.5	4613.6	1459.6	1489.7	1560.0	1612.2	1676.4	1560.0	1513.8	1449.5	1445.5
40°	7637.2	4250.2	1369.2	1441.5	1471.6	1547.9	1447.5	1455.6	1443.5	1395.3	1389.3
42.5°	7858.0	3941.0	1319.0	1425.4	1421.4	1441.5	1331.1	1363.2	1381.3	1345.1	1339.1
45°	8070.8	3672.0	1292.9	1365.2	1385.3	1268.8	1246.8	1276.9	1305.0	1290.9	1284.9
47.5°	8227.4	3439.1	1278.9	1282.9	1339.1	1210.6	1174.5	1188.5	1222.7	1228.7	1226.7
50°	8275.6	3240.4	1262.8	1214.6	1202.6	1152.4	1124.3	1120.3	1160.4	1188.5	1192.6
52.5°	8183.2	3063.7	1220.7	1154.4	1096.2	1104.2	1094.2	1074.1	1114.3	1152.4	1156.4
55°	8046.7	2963.3	1154.4	1096.2	1027.9	1060.0	1064.1	1046.0	1072.1	1098.2	1098.2
57.5°	8056.8	3021.5	1090.2	1042.0	967.7	1009.9	1031.9	1023.9	1023.9	1044.0	1046.0
60°	8123.0	3105.9	1048.0	973.7	907.5	951.6	1001.8	993.8	975.7	1001.8	1001.8
62.5°	7932.3	2993.4	1019.9	907.5	843.2	895.4	955.6	951.6	931.6	973.7	977.7
65°	7370.1	2692.3	987.8	825.1	779.0	839.2	891.4	905.5	887.4	943.6	953.6
67.5°	6177.6	2264.6	925.5	746.9	714.7	770.9	821.1	841.2	827.2	893.4	901.4
70°	4605.6	1833.0	827.2	660.5	636.4	686.6	732.8	740.8	742.8	821.1	829.2
72.5°	2937.2	1425.4	696.7	564.2	546.1	584.2	618.4	650.5	664.5	738.8	736.8
75°	1638.3	1060.0	560.1	477.8	445.7	475.8	516.0	554.1	594.3	702.7	714.7
77.5°	943.6	744.8	443.7	383.5	345.3	377.4	411.6	465.8	586.2	680.6	668.6
80°	532.0	483.8	335.3	281.1	257.0	281.1	307.2	409.6	461.8	501.9	507.9
82.5°	249.0	271.0	228.9	172.7	172.7	188.7	212.8	317.2	349.3	285.1	249.0
85°	90.3	122.5	112.4	88.3	78.3	76.3	132.5	180.7	112.4	100.4	86.3
87.5°	24.1	34.1	32.1	22.1	12.0	10.0	0.0	0.0	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)