

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: P638216

Luminaire Tested: GWS-SA4E-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29946.3 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

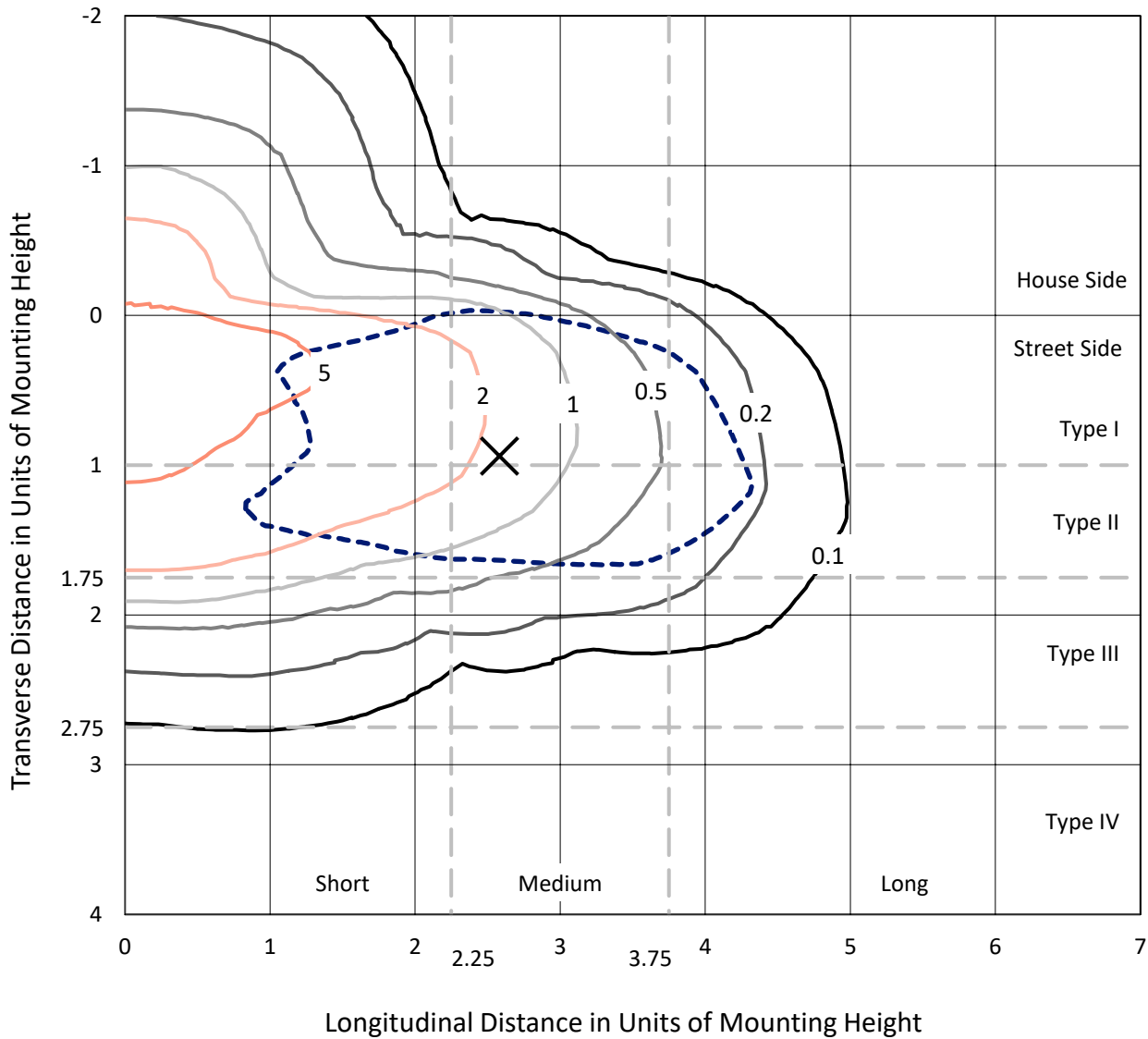
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

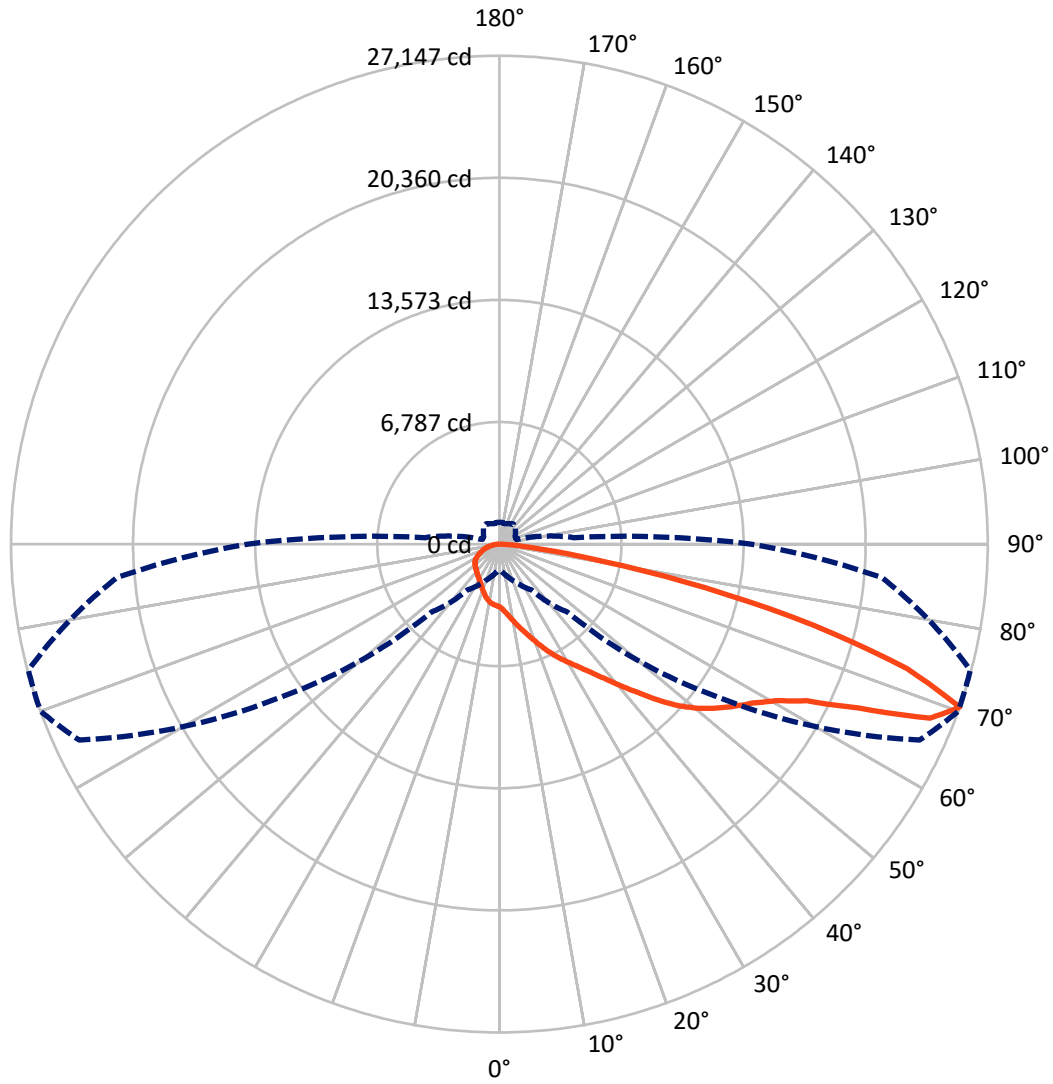
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5366.4	0.0	5366.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24579.9	0.0	24579.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	29946.3	0.0	29946.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	1.2
10°-20°	1154.7	3.9
20°-30°	2045.6	6.8
30°-40°	3078.6	10.3
40°-50°	4657.6	15.6
50°-60°	6672.2	22.3
60°-70°	7375.4	24.6
70°-80°	4162.1	13.9
80°-90°	445.2	1.5
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°	29946.3	100.0
0°-180°	29946.3	100.0

Coefficient of Utilization



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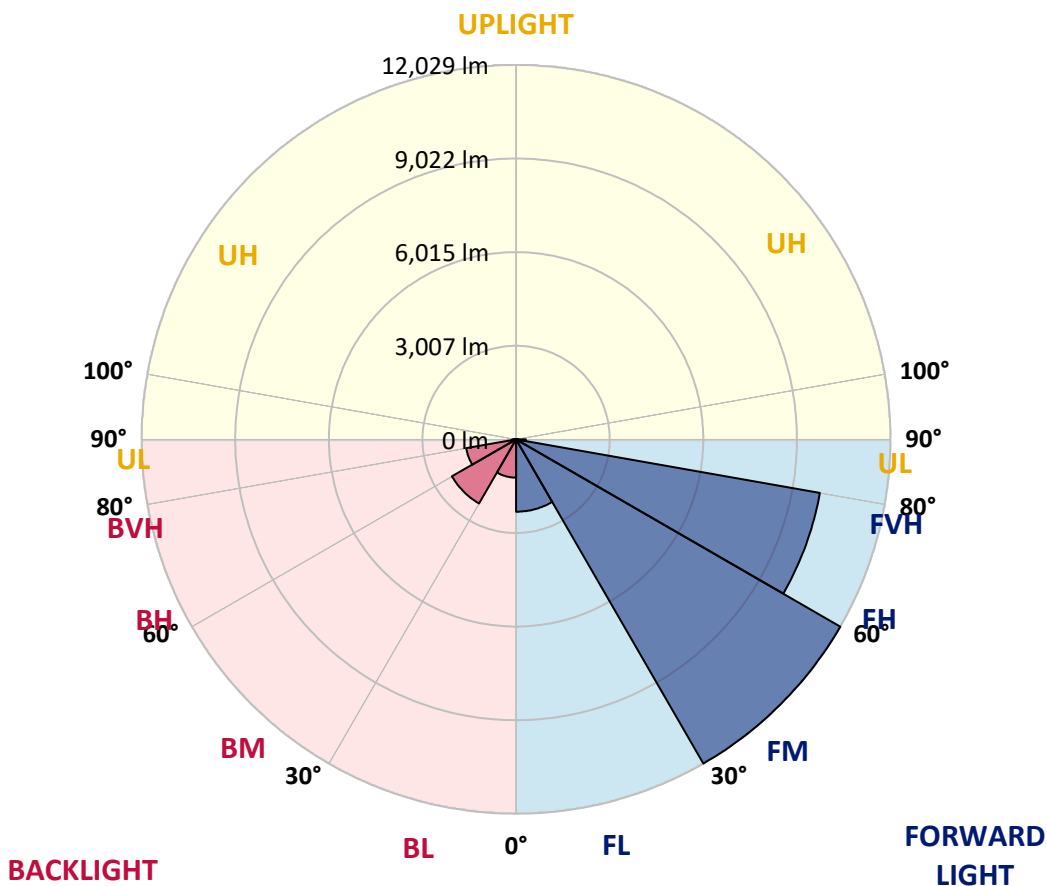
CATALOG NUMBER: GWS-SA4E-735-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.7	7.8			
FM (30°-60°)	12029.4	40.2			
FH (60°-80°)	9911.0	33.1			G4/12000
FVH (80°-90°)	314.7	1.1			G3/500
BL (0°-30°)	1230.5	4.1	B3/2500		
BM (30°-60°)	2379.0	7.9	B2/2500		
BH (60°-80°)	1626.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	130.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4
2.5°	3868.9	3862.4	3866.7	3862.4	3838.6	3780.1	3732.5	3672.0	3630.8	3607.0	3550.8
5°	4323.3	4316.8	4301.6	4280.0	4236.7	4156.6	4037.6	3905.6	3825.6	3765.0	3646.0
7.5°	4650.0	4650.0	4647.8	4621.9	4591.6	4507.2	4366.5	4193.4	4076.6	3972.7	3778.0
10°	4816.6	4827.4	4842.6	4879.3	4872.9	4827.4	4695.4	4509.3	4362.2	4241.0	3951.1
12.5°	4907.5	4914.0	4939.9	5015.7	5093.6	5104.4	5026.5	4831.7	4671.6	4509.3	4143.7
15°	5024.3	5026.5	5061.1	5152.0	5266.7	5381.3	5361.9	5167.1	5002.7	4823.1	4357.9
17.5°	5115.2	5130.3	5193.1	5299.1	5441.9	5599.9	5695.1	5573.9	5370.5	5165.0	4591.6
20°	5147.7	5158.5	5240.7	5403.0	5597.7	5820.6	6032.6	6000.2	5794.6	5552.3	4855.5
22.5°	5264.5	5264.5	5325.1	5461.4	5690.8	6015.3	6359.4	6443.8	6262.0	5978.6	5139.0
25°	5522.0	5513.3	5541.5	5597.7	5770.8	6171.1	6681.8	6935.0	6731.6	6413.5	5422.5
27.5°	5874.7	5870.4	5868.2	5876.9	5935.3	6307.5	6954.4	7393.7	7190.3	6831.1	5675.6
30°	6257.7	6244.7	6272.8	6246.9	6233.9	6469.7	7185.9	7804.8	7646.8	7244.4	5885.5
32.5°	6779.2	6755.4	6748.9	6664.5	6612.5	6722.9	7372.0	8272.2	8146.7	7690.1	6121.4
35°	7467.2	7445.6	7335.3	7201.1	7047.5	7099.4	7603.6	8728.7	8737.4	8248.4	6430.8
37.5°	8161.8	8166.1	8079.6	7763.7	7605.7	7575.4	7956.3	9284.8	9470.9	8914.8	6831.1
40°	8739.6	8765.5	8765.5	8432.3	8196.4	8168.3	8451.8	9944.8	10314.8	9732.7	7337.4
42.5°	9178.8	9202.6	9278.3	9038.2	8789.3	8886.7	9053.3	10606.9	11271.2	10743.2	7977.9
45°	9661.3	9680.8	9721.9	9583.4	9438.5	9698.1	9734.9	11398.9	12366.1	11877.0	8722.2
47.5°	10301.8	10284.5	10288.8	10187.1	10074.6	10494.4	10485.7	12065.3	13424.2	13119.1	9529.3
50°	11098.1	11130.5	11100.2	10899.0	10767.0	11150.0	11199.8	12803.2	14354.6	14348.1	10342.9
52.5°	11864.1	11877.0	12037.2	12045.8	11775.4	11695.3	11825.1	13547.5	15140.0	15473.3	11124.0
55°	11903.0	11952.8	12433.1	12779.3	13216.4	12573.8	12456.9	14257.2	15899.5	16574.6	11935.5
57.5°	11074.3	11154.3	11970.1	12716.6	13932.7	14082.0	13538.8	15174.7	16659.0	17658.7	12874.6
60°	9304.3	9470.9	10578.8	11721.3	13610.2	15166.0	15752.4	16421.0	17656.5	18766.6	14014.9
62.5°	5941.8	6006.7	7560.3	9473.1	12158.3	15060.0	18162.9	18617.3	19175.5	20209.8	15771.9
65°	2975.2	3182.9	4093.9	5654.0	8767.7	13270.5	19381.1	22639.7	21956.0	22680.9	18619.4
67.5°	2018.8	2085.9	2546.8	3397.2	5141.2	9401.7	18625.9	26028.2	25827.0	25946.0	21655.2
70°	1488.7	1532.0	1895.5	2406.1	3109.4	5338.1	14828.5	25772.9	27146.9	27103.6	21337.1
72.5°	1086.2	1107.9	1382.7	1837.1	2304.4	2761.0	9055.5	20820.0	23697.8	24946.3	18660.5
75°	789.8	815.7	960.7	1374.0	1791.6	1722.4	4470.4	15038.3	18072.0	20473.8	15202.8
77.5°	588.6	621.0	688.1	861.2	1255.0	1233.4	1932.3	9765.2	11688.8	13372.2	9235.1
80°	424.1	430.6	469.5	551.8	796.3	722.7	919.6	5091.4	5837.9	6396.2	3620.0
82.5°	257.5	264.0	313.7	339.7	493.3	454.4	478.2	1648.8	2362.9	2507.8	1352.4
85°	75.7	80.1	142.8	155.8	205.6	194.7	192.6	670.8	800.6	1023.5	532.3
87.5°	0.0	0.0	0.0	0.0	2.2	13.0	23.8	119.0	179.6	248.8	129.8
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°	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4
2.5°	3529.1	3479.4	3453.4	3408.0	3375.5	3343.1	3310.6	3280.3	3267.3	3247.9	3252.2
5°	3591.9	3514.0	3436.1	3347.4	3271.7	3208.9	3152.6	3102.9	3081.2	3061.8	3070.4
7.5°	3687.1	3570.3	3421.0	3258.7	3139.7	3053.1	2994.7	2960.1	2949.2	2934.1	2934.1
10°	3808.3	3633.0	3371.2	3139.7	2996.9	2927.6	2901.6	2899.5	2910.3	2912.5	2908.1
12.5°	3942.4	3693.6	3297.6	2999.0	2877.8	2856.2	2875.7	2912.5	2949.2	2968.7	2964.4
15°	4080.9	3732.5	3172.1	2864.9	2791.3	2819.4	2882.2	2955.7	3027.1	3063.9	3061.8
17.5°	4210.7	3741.2	3009.8	2735.0	2715.6	2787.0	2895.2	3009.8	3107.2	3159.1	3161.3
20°	4355.7	3726.0	2843.2	2618.2	2639.8	2756.7	2899.5	3038.0	3152.6	3204.6	3217.6
22.5°	4487.7	3674.1	2680.9	2507.8	2574.9	2719.9	2864.9	2994.7	3096.4	3146.2	3163.5
25°	4606.7	3574.6	2503.5	2414.8	2525.1	2668.0	2778.3	2869.2	2940.6	2970.9	2994.7
27.5°	4671.6	3425.3	2369.4	2341.2	2477.5	2594.4	2655.0	2683.1	2706.9	2698.2	2715.6
30°	4684.6	3239.2	2252.5	2282.8	2406.1	2492.7	2505.7	2477.5	2436.4	2369.4	2384.5
32.5°	4671.6	3025.0	2155.1	2220.0	2326.1	2378.0	2360.7	2287.1	2187.6	2083.7	2090.2
35°	4676.0	2808.6	2075.1	2150.8	2233.0	2261.2	2217.9	2116.2	2010.2	1915.0	1910.6
37.5°	4723.6	2626.8	2008.0	2083.7	2142.2	2146.5	2098.9	1992.9	1938.8	1867.4	1858.7
40°	4855.5	2492.7	1947.4	2016.7	2053.4	2051.3	1997.2	1921.4	1958.2	1934.4	1927.9
42.5°	5071.9	2410.5	1897.6	1945.2	1971.2	1975.5	1932.3	1884.7	1964.7	1934.4	1923.6
45°	5420.3	2406.1	1863.0	1873.8	1915.0	1945.2	1915.0	1860.9	1891.2	1744.0	1715.9
47.5°	5833.6	2479.7	1837.1	1811.1	1882.5	1936.6	1889.0	1802.4	1739.7	1605.5	1586.1
50°	6331.3	2629.0	1813.3	1744.0	1834.9	1904.1	1856.5	1737.5	1642.3	1570.9	1560.1
52.5°	6922.0	2825.9	1783.0	1668.3	1763.5	1886.8	1856.5	1731.0	1605.5	1540.6	1529.8
55°	7540.8	3053.1	1748.3	1577.4	1683.4	1891.2	1871.7	1685.6	1577.4	1542.8	1534.1
57.5°	8309.0	3325.7	1685.6	1471.4	1612.0	1852.2	1811.1	1659.6	1557.9	1529.8	1521.1
60°	9306.5	3730.4	1566.6	1363.2	1529.8	1783.0	1757.0	1616.4	1506.0	1482.2	1475.7
62.5°	10886.0	4416.3	1421.6	1259.3	1432.4	1638.0	1676.9	1534.1	1441.1	1438.9	1436.8
65°	13460.9	5240.7	1250.7	1166.3	1330.7	1519.0	1570.9	1449.7	1374.0	1397.8	1395.6
67.5°	15265.5	5312.1	1110.0	1068.9	1211.7	1389.2	1464.9	1363.2	1281.0	1326.4	1324.2
70°	13982.4	4143.7	988.9	967.2	1084.1	1248.5	1350.2	1255.0	1172.8	1216.1	1207.4
72.5°	11792.7	3176.4	874.2	861.2	954.2	1101.4	1203.1	1146.8	1060.3	1060.3	1040.8
75°	9477.4	2620.4	753.0	746.5	809.3	952.1	1066.7	971.5	891.5	887.2	874.2
77.5°	5435.4	1718.1	631.8	627.5	647.0	796.3	828.7	809.3	748.7	720.5	711.9
80°	2166.0	893.6	497.7	469.5	489.0	584.2	653.5	621.0	569.1	534.5	515.0
82.5°	839.6	447.9	350.5	307.3	335.4	421.9	473.9	463.1	428.4	350.5	328.9
85°	341.9	218.5	209.9	177.4	194.7	227.2	272.6	235.9	194.7	138.5	132.0
87.5°	90.9	80.1	77.9	47.6	36.8	10.8	2.2	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)