

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: P640758

Luminaire Tested: GWS-SA5E-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640758
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-SA5E-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38163.6 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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

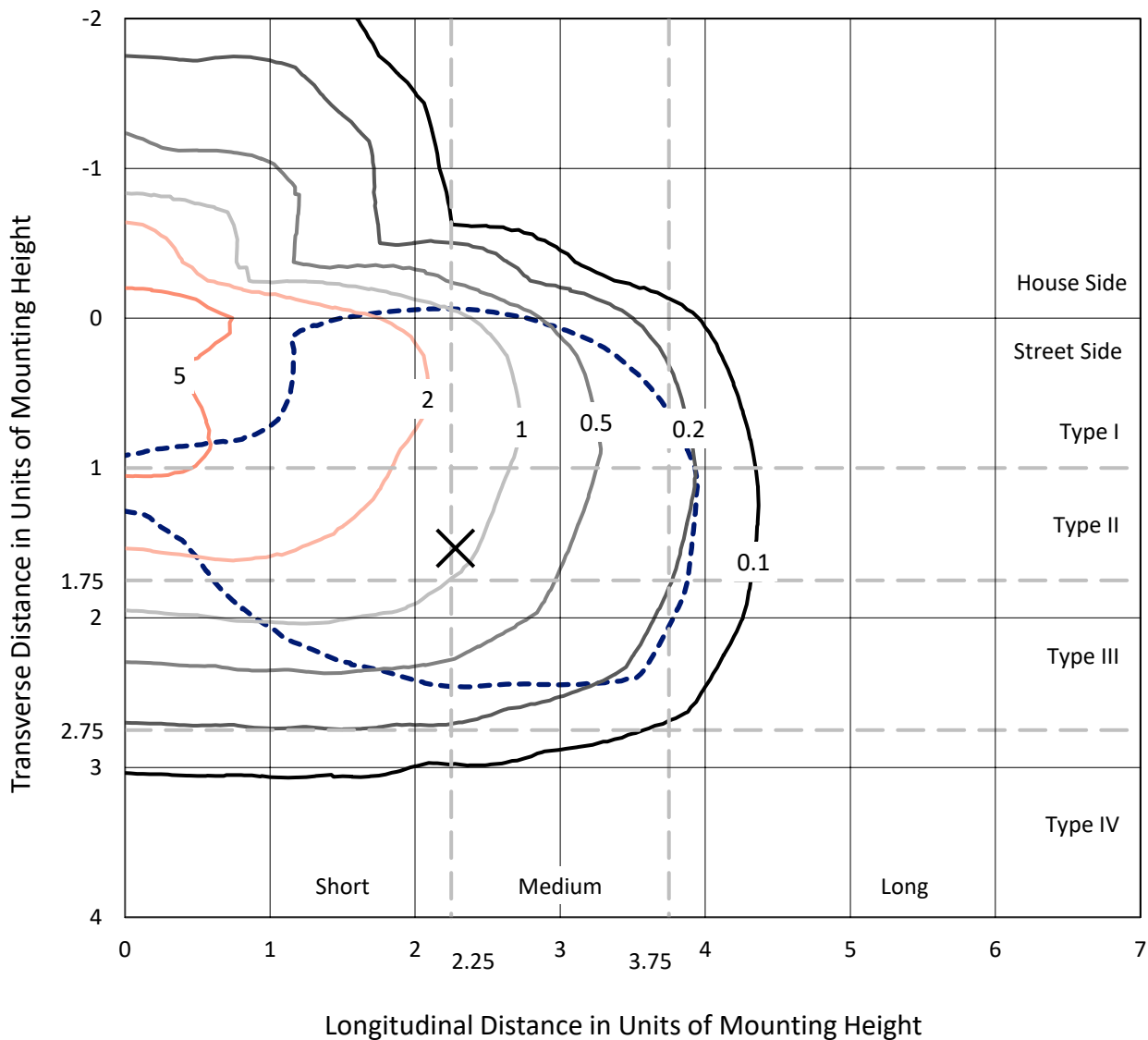


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Iso-Footcandle Lines of Horizontal Illumination

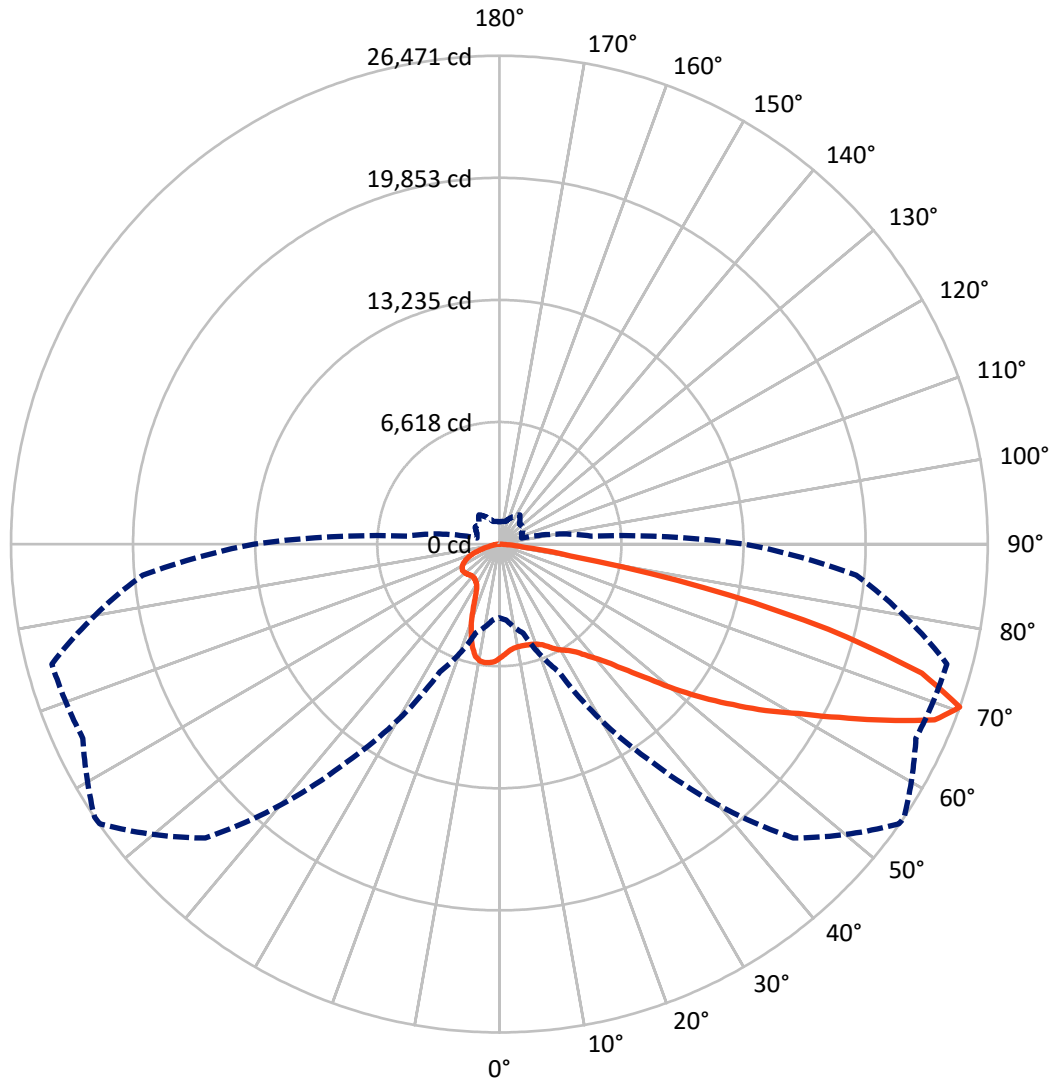
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	7337.0	0.0	7337.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	30826.6	0.0	30826.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	38163.6	0.0	38163.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.1	1.5
10°-20°	1544.6	4.0
20°-30°	2553.6	6.7
30°-40°	3818.0	10.0
40°-50°	5681.7	14.9
50°-60°	8077.8	21.2
60°-70°	10004.6	26.2
70°-80°	5524.2	14.5
80°-90°	389.1	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°	38163.6	100.0
0°-180°	38163.6	100.0

Coefficient of Utilization



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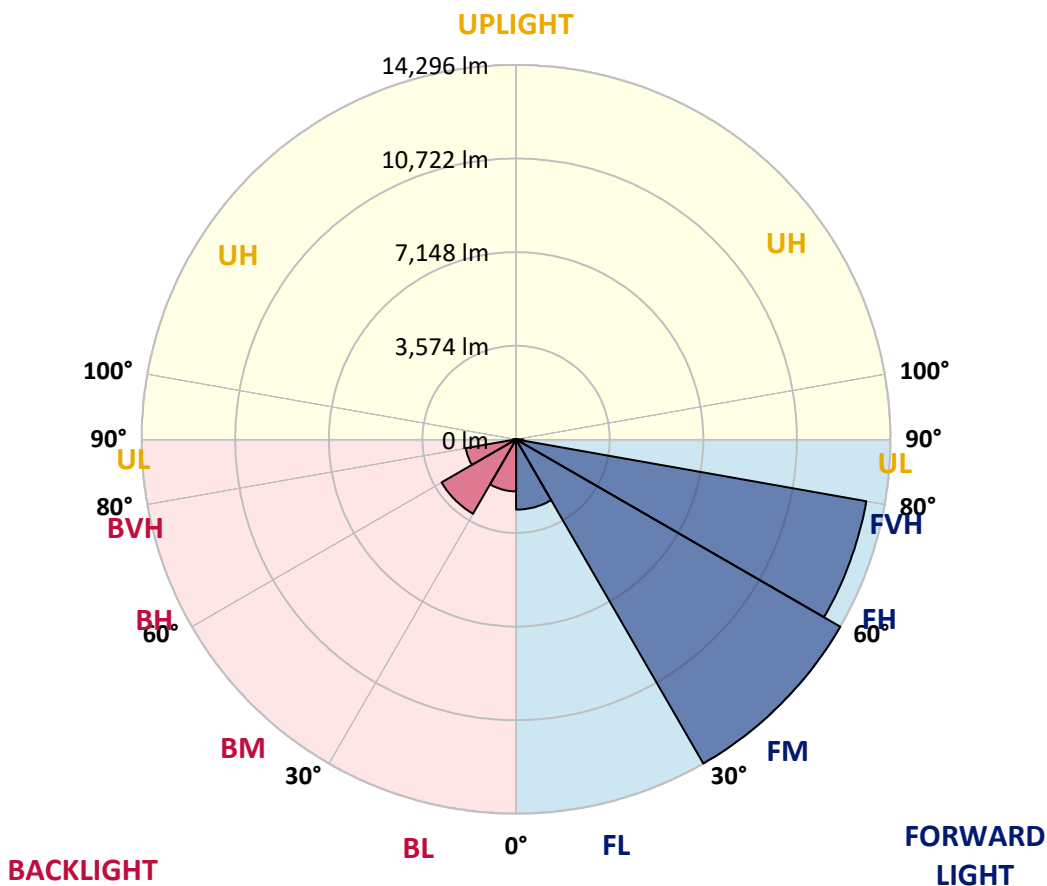
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2682.1	7.0			
FM (30°-60°)	14295.5	37.5			
FH (60°-80°)	13578.6	35.6			G5
FVH (80°-90°)	270.4	0.7			G3/500
BL (0°-30°)	1986.2	5.2	B3/2500		
BM (30°-60°)	3282.0	8.6	B3/5000		
BH (60°-80°)	1950.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	118.7	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°	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2
2.5°	5764.6	5732.3	5770.0	5788.8	5837.2	5907.2	5969.1	5971.8	6004.1	6082.1	6157.5
5°	5503.5	5487.4	5498.2	5554.7	5605.8	5694.6	5788.8	5796.9	5888.4	6041.8	6192.5
7.5°	5301.7	5280.2	5320.5	5393.2	5457.8	5557.4	5681.2	5691.9	5821.1	6052.5	6284.0
10°	5011.0	4994.9	5070.2	5167.1	5307.1	5471.2	5635.4	5648.9	5818.4	6122.5	6445.5
12.5°	4884.6	4884.6	4916.9	5008.4	5161.8	5379.7	5627.3	5648.9	5861.5	6230.2	6652.7
15°	5081.0	5094.5	5067.6	5062.2	5124.1	5331.3	5638.1	5670.4	5942.2	6340.5	6857.2
17.5°	5476.6	5490.1	5420.1	5309.8	5247.9	5377.0	5678.5	5713.5	6028.3	6461.6	7077.9
20°	6031.0	6047.2	5893.8	5724.2	5511.6	5508.9	5756.5	5788.8	6138.7	6593.5	7312.0
22.5°	6679.6	6690.4	6496.6	6227.5	5901.8	5753.8	5891.1	5923.4	6281.3	6776.5	7565.0
25°	7430.4	7462.7	7228.6	6838.4	6397.0	6090.2	6114.4	6152.1	6537.0	7021.4	7863.7
27.5°	8232.4	8272.8	8003.7	7573.1	6964.9	6461.6	6402.4	6434.7	6808.8	7172.1	8022.5
30°	9053.2	9082.9	8813.7	8321.2	7575.8	6881.4	6644.6	6663.4	6927.2	7244.8	8184.0
32.5°	9965.6	9941.3	9683.0	9115.1	8280.9	7384.7	6870.7	6865.3	7059.1	7390.1	8415.4
35°	10821.4	10856.4	10581.9	9954.8	9055.9	8006.4	7209.8	7188.2	7338.9	7626.9	8741.1
37.5°	11857.5	11846.7	11518.4	10840.2	9833.7	8601.1	7686.1	7648.4	7702.3	7995.6	9195.9
40°	12597.6	12672.9	12460.3	11827.9	10743.3	9333.1	8243.2	8159.8	8173.2	8450.4	9804.1
42.5°	13203.1	13273.1	13294.6	12890.9	11784.8	10237.4	8937.5	8854.1	8862.2	9255.1	10552.3
45°	13668.7	13762.9	14067.0	13948.6	12958.2	11281.6	9876.8	9790.6	9796.0	10232.0	11456.5
47.5°	13859.8	13962.0	14578.3	14860.9	14204.2	12530.3	11044.7	10918.3	10937.1	11418.8	12489.9
50°	13797.9	13935.1	14769.4	15563.3	15248.4	13800.6	12441.5	12352.7	12280.0	12979.7	13612.2
52.5°	13265.0	13415.7	14750.6	16010.0	16101.5	15000.8	13884.0	13832.8	13816.7	14637.5	14866.3
55°	11696.0	11949.0	14102.0	16128.5	16769.0	16131.1	15447.6	15361.5	15444.9	16413.7	16133.8
57.5°	10826.8	11015.1	12831.7	15996.6	17315.3	17207.6	17008.5	17016.6	17110.7	18343.3	17670.5
60°	10331.6	10552.3	12126.6	15636.0	17840.1	18515.6	18642.0	18642.0	18811.6	20423.6	19231.4
62.5°	9674.9	9898.3	11467.3	14941.6	18324.5	20054.9	20695.4	20687.4	20754.7	22654.7	20757.3
65°	8342.8	8550.0	10143.2	13846.3	18561.3	21750.4	23028.7	23004.5	22869.9	24640.8	21766.6
67.5°	6057.9	6254.4	7769.5	11763.3	17708.2	23117.5	25432.0	25442.8	24638.1	25892.2	21820.4
70°	3993.8	4128.3	4994.9	7640.4	14400.7	22528.2	26438.5	26470.8	24909.9	25111.7	19419.8
72.5°	2492.1	2586.3	3119.1	4556.2	8509.6	17832.0	23854.9	23943.7	22409.8	22068.0	15956.2
75°	1655.1	1719.7	2074.9	2656.2	3937.2	9650.7	18133.4	18418.7	17961.2	17299.1	11117.4
77.5°	995.7	1049.6	1321.4	1687.4	1743.9	3770.4	10584.6	11321.9	11386.5	9031.7	4655.8
80°	454.8	516.7	729.3	963.5	928.5	1313.3	3732.7	3905.0	4607.4	2868.8	1469.4
82.5°	269.1	296.0	484.4	479.0	395.6	637.8	1342.9	1377.9	1170.7	1049.6	627.1
85°	107.6	126.5	204.5	180.3	145.3	207.2	505.9	530.2	508.6	457.5	231.4
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	45.8	48.4	70.0	126.5	70.0
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°	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2
2.5°	6205.9	6189.8	6270.5	6332.4	6359.3	6386.3	6362.0	6354.0	6354.0	6300.1	6273.2
5°	6273.2	6281.3	6391.6	6442.8	6442.8	6421.2	6356.7	6310.9	6294.8	6224.8	6205.9
7.5°	6399.7	6434.7	6537.0	6534.3	6458.9	6340.5	6179.0	6055.2	5942.2	5893.8	5864.2
10°	6606.9	6652.7	6722.7	6609.6	6399.7	6087.5	5745.7	5476.6	5315.2	5186.0	5186.0
12.5°	6843.8	6886.8	6873.4	6612.3	6179.0	5595.0	5102.5	4793.1	4567.0	4448.6	4448.6
15°	7080.6	7115.6	6970.2	6488.5	5718.8	4941.1	4402.8	4031.4	3835.0	3724.6	3724.6
17.5°	7320.1	7317.4	7010.6	6203.3	5118.7	4217.1	3689.7	3401.7	3334.4	3315.6	3312.9
20°	7551.6	7489.7	6959.5	5726.9	4421.7	3487.8	3154.1	3172.9	3272.5	3315.6	3321.0
22.5°	7812.6	7659.2	6808.8	5118.7	3630.4	2981.9	3003.4	3159.5	3304.8	3369.4	3377.5
25°	8079.0	7804.5	6555.8	4405.5	2968.4	2796.2	2963.0	3138.0	3302.1	3385.5	3393.6
27.5°	8186.7	7804.5	6125.2	3579.3	2615.9	2718.1	2901.1	3070.7	3242.9	3339.8	3358.6
30°	8275.5	7737.2	5522.4	2833.8	2470.5	2642.8	2801.6	2957.6	3127.2	3245.6	3267.1
32.5°	8399.3	7678.0	4793.1	2381.7	2403.3	2570.1	2680.5	2812.3	2965.7	3043.8	3035.7
35°	8544.6	7586.5	3913.0	2166.4	2346.7	2508.2	2586.3	2664.3	2594.3	2591.6	2599.7
37.5°	8751.8	7505.8	3146.0	2069.5	2309.1	2465.2	2529.7	2362.9	2266.0	2225.6	2209.5
40°	9050.6	7473.5	2481.3	2013.0	2303.7	2462.5	2416.7	2158.4	2026.5	1886.5	1883.9
42.5°	9427.3	7449.3	2050.7	1986.1	2322.5	2524.4	2260.6	2023.8	1752.0	1690.1	1684.7
45°	9911.7	7411.6	1835.4	1980.7	2368.3	2572.8	2244.5	1838.1	1652.4	1625.5	1625.5
47.5°	10495.7	7352.4	1738.5	1980.7	2419.4	2551.3	2196.0	1797.7	1606.7	1636.3	1655.1
50°	11165.9	7277.0	1687.4	1975.4	2470.5	2551.3	2093.8	1789.7	1595.9	1749.3	1811.2
52.5°	11881.7	7190.9	1652.4	1953.8	2505.5	2554.0	2099.1	1816.6	1606.7	1776.2	1827.3
55°	12672.9	7177.5	1604.0	1908.1	2516.3	2484.0	2112.6	1875.8	1622.8	1609.3	1612.0
57.5°	13671.4	7338.9	1569.0	1840.8	2473.2	2341.4	2139.5	1918.8	1604.0	1606.7	1625.5
60°	14715.6	7643.1	1598.6	1776.2	2384.4	2206.8	2158.4	1897.3	1512.5	1469.4	1474.8
62.5°	15603.7	7874.5	1622.8	1746.6	2255.2	2088.4	2139.5	1848.9	1461.3	1450.6	1474.8
65°	15975.1	7683.4	1563.6	1684.7	2066.9	1943.1	2099.1	1787.0	1418.3	1377.9	1380.6
67.5°	15563.3	6787.2	1447.9	1547.4	1854.2	1757.4	2034.6	1706.2	1359.1	1310.6	1299.9
70°	13294.6	4986.8	1248.7	1329.5	1595.9	1539.4	1935.0	1601.3	1264.9	1229.9	1205.7
72.5°	10713.7	3530.9	1036.1	1057.6	1251.4	1297.2	1762.7	1469.4	1157.2	1057.6	1022.7
75°	7457.4	2217.6	863.9	842.4	904.2	990.4	1375.2	1219.1	998.4	893.5	861.2
77.5°	3207.9	1138.4	675.5	664.7	602.8	686.3	1055.0	1017.3	837.0	715.9	697.0
80°	1073.8	659.3	487.1	468.3	401.0	481.7	742.8	812.7	656.7	530.2	497.9
82.5°	538.2	382.2	309.5	279.9	269.1	304.1	438.7	505.9	454.8	366.0	309.5
85°	263.7	218.0	169.5	166.9	139.9	131.9	183.0	215.3	204.5	150.7	142.6
87.5°	96.9	86.1	53.8	43.1	26.9	18.8	10.8	10.8	8.1	8.1	8.1
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)