

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: P642740

Luminaire Tested: GWS-SA6D-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34600.6 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

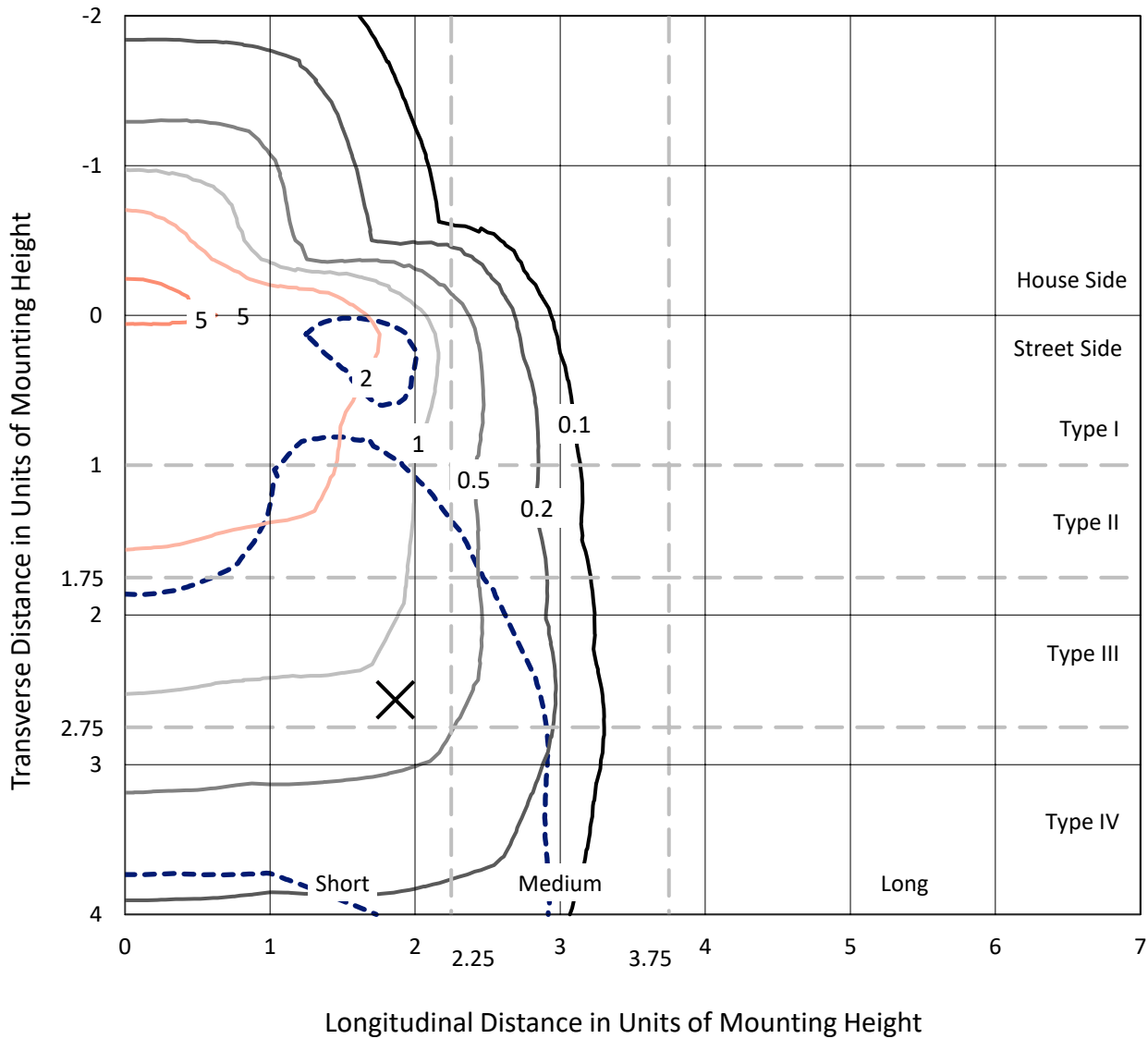
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

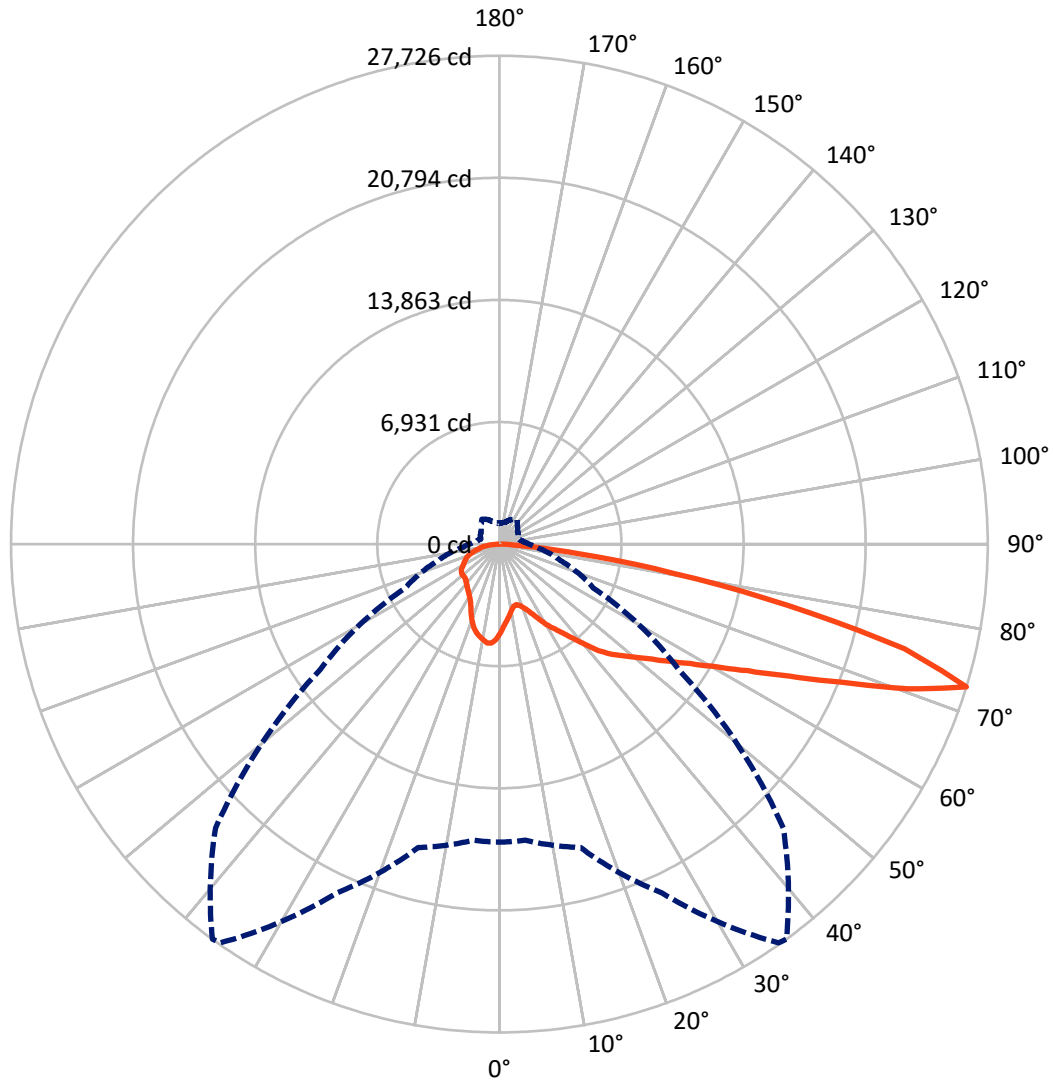
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7976.9	0.0	7976.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	26623.7	0.0	26623.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	34600.6	0.0	34600.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	1.4
10°-20°	1335.5	3.9
20°-30°	2211.7	6.4
30°-40°	3312.3	9.6
40°-50°	4832.3	14.0
50°-60°	6877.8	19.9
60°-70°	8689.6	25.1
70°-80°	6192.1	17.9
80°-90°	676.0	2.0
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°	34600.6	100.0
0°-180°	34600.6	100.0

Coefficient of Utilization



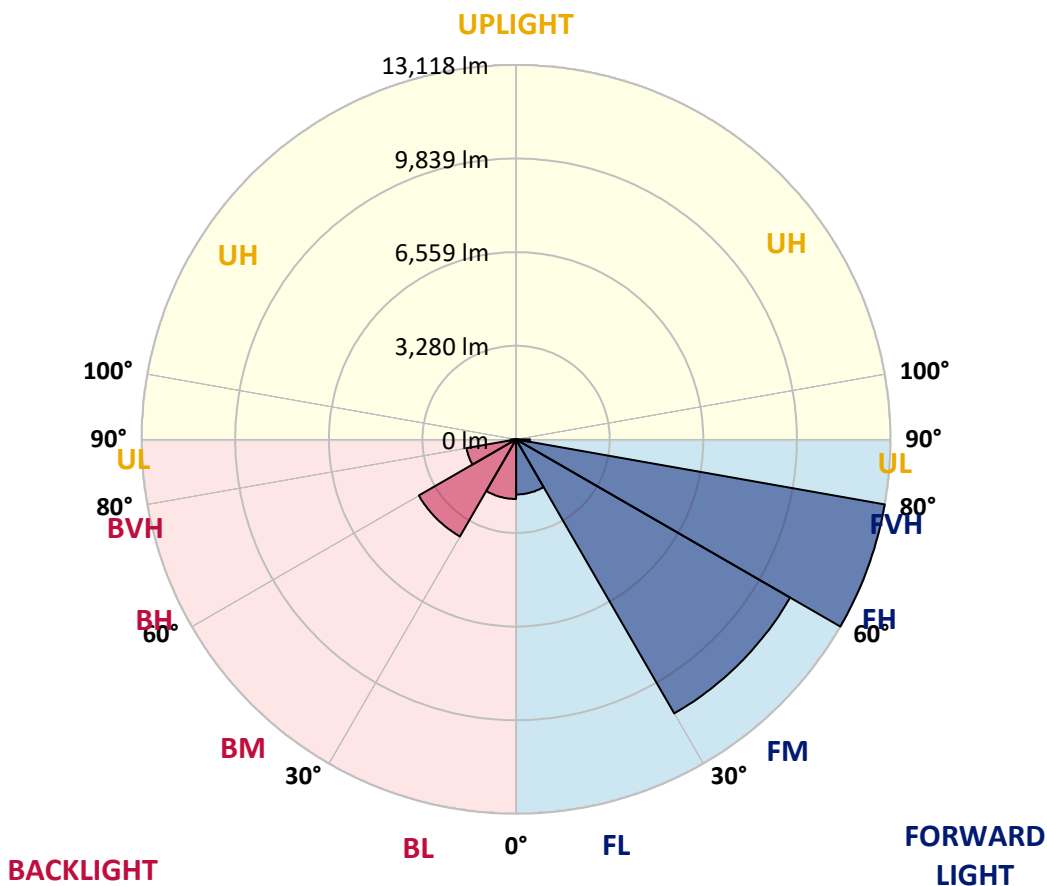
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.7	5.6			
FM (30°-60°)	11088.6	32.0			
FH (60°-80°)	13118.2	37.9			G5
FVH (80°-90°)	485.2	1.4			G3/500
BL (0°-30°)	2088.9	6.0	B3/2500		
BM (30°-60°)	3933.8	11.4	B3/5000		
BH (60°-80°)	1763.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	190.8	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0
2.5°	4619.7	4612.0	4596.6	4642.8	4689.0	4683.9	4748.1	4809.7	4876.5	4945.8	5038.3
5°	4249.9	4244.8	4231.9	4301.3	4370.6	4368.0	4473.3	4573.5	4709.6	4858.5	5043.4
7.5°	3880.1	3867.3	3885.3	3972.6	4070.2	4080.4	4224.2	4388.6	4586.3	4809.7	5071.7
10°	3554.0	3551.4	3559.1	3656.7	3803.1	3813.4	3998.3	4226.8	4488.7	4786.6	5135.9
12.5°	3469.3	3464.1	3443.6	3492.4	3602.8	3618.2	3821.1	4101.0	4422.0	4799.5	5223.2
15°	3607.9	3595.1	3523.2	3500.1	3554.0	3566.9	3738.9	4026.5	4383.5	4822.6	5333.6
17.5°	3846.8	3839.1	3703.0	3607.9	3643.9	3654.2	3782.6	4013.7	4373.2	4868.8	5469.7
20°	4196.0	4162.6	3949.5	3805.7	3805.7	3821.1	3898.1	4070.2	4386.0	4925.3	5623.8
22.5°	4658.2	4591.5	4291.0	4095.8	4044.5	4065.0	4098.4	4211.4	4439.9	5020.3	5816.4
25°	5176.9	5115.3	4758.4	4483.6	4411.7	4419.4	4391.2	4411.7	4558.1	5151.3	6055.2
27.5°	5729.0	5688.0	5307.9	4958.7	4845.7	4845.7	4745.5	4696.7	4722.4	5300.2	6322.2
30°	6222.1	6165.6	5844.6	5462.0	5313.0	5313.0	5123.0	5017.7	4956.1	5482.5	6679.2
32.5°	6481.4	6448.1	6234.9	5942.2	5759.9	5731.6	5567.3	5444.0	5300.2	5752.2	7161.9
35°	6820.4	6812.7	6684.3	6455.8	6224.7	6183.6	6070.6	5973.0	5723.9	6088.6	7803.9
37.5°	7246.7	7233.9	7213.3	7077.2	6799.9	6792.2	6692.0	6573.9	6250.3	6573.9	8582.0
40°	7724.3	7701.2	7675.5	7673.0	7506.1	7477.8	7470.1	7336.6	6884.6	7159.4	9393.5
42.5°	8381.7	8302.1	8060.7	8168.6	8291.8	8266.2	8363.7	8163.4	7675.5	7855.3	10161.3
45°	9190.6	8995.4	8517.8	8548.6	8859.3	8910.7	9249.7	9200.9	8546.1	8659.1	10970.2
47.5°	9676.0	9506.5	9062.2	9036.5	9424.3	9488.5	10225.5	10317.9	9483.4	9627.2	11969.1
50°	10074.0	9955.9	9591.2	9627.2	10038.0	10102.2	11193.6	11391.3	10366.7	10618.4	13129.8
52.5°	10554.2	10384.7	10102.2	10271.7	10775.0	10852.1	12269.6	12482.7	11162.8	11707.2	14331.6
55°	10823.8	10754.5	10759.6	11019.0	11650.7	11756.0	13396.9	13360.9	11892.1	12639.3	15235.5
57.5°	11445.3	11419.6	11655.8	11753.4	12672.7	12808.8	14524.2	14216.0	12554.6	13360.9	15669.5
60°	12541.8	12477.6	12683.0	12831.9	13936.1	14128.7	15782.5	15053.2	13004.0	13897.6	15523.1
62.5°	14082.5	14002.9	14010.6	14246.9	15628.4	15831.3	17182.0	15751.7	13142.7	13979.8	14596.1
65°	15998.2	15882.6	15751.7	16072.7	17875.3	18044.8	18704.8	16260.1	12811.4	13188.9	12659.9
67.5°	18019.1	17924.1	17770.1	18442.9	20784.8	20887.5	20412.5	16216.5	11761.1	11072.9	8879.9
70°	18137.3	18160.4	18889.7	21324.1	24582.8	24608.4	22027.7	15338.2	9524.4	7177.4	4424.5
72.5°	16920.1	16881.6	17831.7	21850.5	27638.6	27725.9	22790.4	12426.2	5885.7	3579.7	2074.9
75°	13743.5	13810.3	14809.2	19118.2	23689.1	23766.2	18579.0	7326.3	2796.5	1751.3	1327.6
77.5°	5916.5	6288.9	8258.5	13468.8	16966.3	16727.5	9575.8	2968.5	1492.0	1248.0	1016.9
80°	1707.7	1854.0	2942.8	6404.4	10166.4	9986.7	3790.3	1111.9	1040.0	937.3	729.3
82.5°	552.1	611.2	1078.5	2550.0	4555.5	4550.4	1438.0	657.4	680.5	636.8	469.9
85°	154.1	177.2	331.3	772.9	1409.8	1381.5	416.0	310.7	362.1	367.2	233.7
87.5°	0.0	0.0	2.6	5.1	5.1	5.1	10.3	46.2	105.3	133.5	95.0
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°	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0
2.5°	5094.8	5087.1	5192.3	5274.5	5351.6	5402.9	5418.3	5428.6	5449.1	5459.4	5449.1
5°	5130.7	5169.2	5343.9	5472.3	5575.0	5636.6	5639.2	5634.0	5649.4	5636.6	5628.9
7.5°	5207.8	5282.2	5503.1	5639.2	5705.9	5708.5	5646.9	5575.0	5539.0	5508.2	5497.9
10°	5310.5	5420.9	5662.3	5752.2	5731.6	5636.6	5500.5	5387.5	5323.3	5277.1	5266.8
12.5°	5451.7	5575.0	5803.5	5800.9	5672.6	5503.1	5343.9	5207.8	5115.3	5061.4	5043.4
15°	5585.2	5741.9	5906.2	5785.5	5582.7	5377.2	5171.8	4989.5	4866.2	4781.5	4766.1
17.5°	5749.6	5916.5	5980.7	5736.7	5469.7	5205.2	4930.4	4691.6	4524.7	4424.5	4416.8
20°	5939.6	6088.6	6016.7	5652.0	5323.3	4976.6	4604.3	4337.2	4157.5	4059.9	4067.6
22.5°	6160.5	6268.3	6026.9	5536.5	5120.4	4653.1	4237.1	3980.3	3859.6	3808.2	3810.8
25°	6396.7	6466.0	6009.0	5379.8	4809.7	4257.6	3859.6	3741.5	3731.2	3718.4	3723.5
27.5°	6676.6	6661.2	5955.0	5159.0	4391.2	3798.0	3595.1	3625.9	3667.0	3661.9	3667.0
30°	7051.5	6905.2	5885.7	4853.4	3893.0	3412.8	3438.5	3525.8	3579.7	3584.8	3600.2
32.5°	7480.4	7174.8	5775.3	4437.4	3417.9	3197.1	3292.1	3397.4	3461.6	3474.4	3494.9
35°	7991.4	7482.9	5580.1	3918.7	3076.4	3068.7	3156.0	3227.9	3297.2	3302.4	3302.4
37.5°	8579.4	7791.1	5269.4	3346.0	2865.8	2958.3	3040.4	3055.8	3073.8	3058.4	3066.1
40°	9118.7	8089.0	4827.7	2824.7	2693.8	2860.7	2930.0	2878.6	2822.2	2783.6	2791.3
42.5°	9570.7	8291.8	4242.2	2460.1	2519.1	2773.4	2827.3	2722.0	2611.6	2539.7	2550.0
45°	10079.1	8479.3	3554.0	2213.6	2370.2	2711.7	2747.7	2611.6	2470.3	2362.5	2347.1
47.5°	10780.2	8861.9	2942.8	2041.5	2264.9	2678.3	2737.4	2552.5	2367.6	2205.8	2187.9
50°	11645.6	9403.8	2431.8	1928.5	2216.1	2660.4	2734.8	2488.3	2267.5	2077.5	2064.6
52.5°	12590.5	9932.7	2054.3	1841.2	2167.3	2606.4	2722.0	2416.4	2162.2	1956.8	1941.4
55°	13219.7	10140.7	1800.1	1759.0	2087.7	2521.7	2670.6	2347.1	2003.0	1815.5	1792.4
57.5°	13404.6	9873.7	1622.9	1684.6	1985.0	2403.6	2573.1	2200.7	1905.4	1756.5	1738.5
60°	13086.2	9200.9	1512.5	1622.9	1872.0	2252.1	2403.6	2116.0	1828.4	1694.8	1682.0
62.5°	12187.4	8163.4	1427.8	1558.7	1756.5	2092.9	2295.7	2013.3	1743.6	1638.3	1620.4
65°	10379.6	6694.6	1358.4	1492.0	1646.0	1941.4	2177.6	1910.5	1651.2	1571.6	1551.0
67.5°	7259.5	4701.9	1284.0	1412.4	1535.6	1795.0	2054.3	1815.5	1556.2	1497.1	1476.6
70°	3548.9	2493.5	1194.1	1319.9	1417.5	1646.0	1931.1	1700.0	1430.3	1397.0	1368.7
72.5°	1689.7	1394.4	1088.8	1194.1	1255.7	1448.3	1725.6	1533.1	1281.4	1209.5	1160.7
75°	1132.5	991.2	950.1	1045.1	1060.6	1214.6	1479.1	1322.5	1129.9	1047.7	1006.6
77.5°	857.7	757.5	798.6	883.4	852.6	998.9	1217.2	1178.7	1019.5	945.0	924.5
80°	603.5	552.1	634.3	685.6	662.5	850.0	1096.5	1009.2	839.7	757.5	742.1
82.5°	380.1	369.8	467.4	475.1	482.8	672.8	901.3	793.5	652.3	536.7	498.2
85°	190.0	210.6	279.9	279.9	277.3	346.7	513.6	446.8	351.8	279.9	272.2
87.5°	64.2	89.9	120.7	97.6	74.5	59.1	66.8	82.2	87.3	84.7	84.7
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)