

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: P638766

Luminaire Tested: GWS-SA4F-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638766
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-SA4F-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33757.5 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

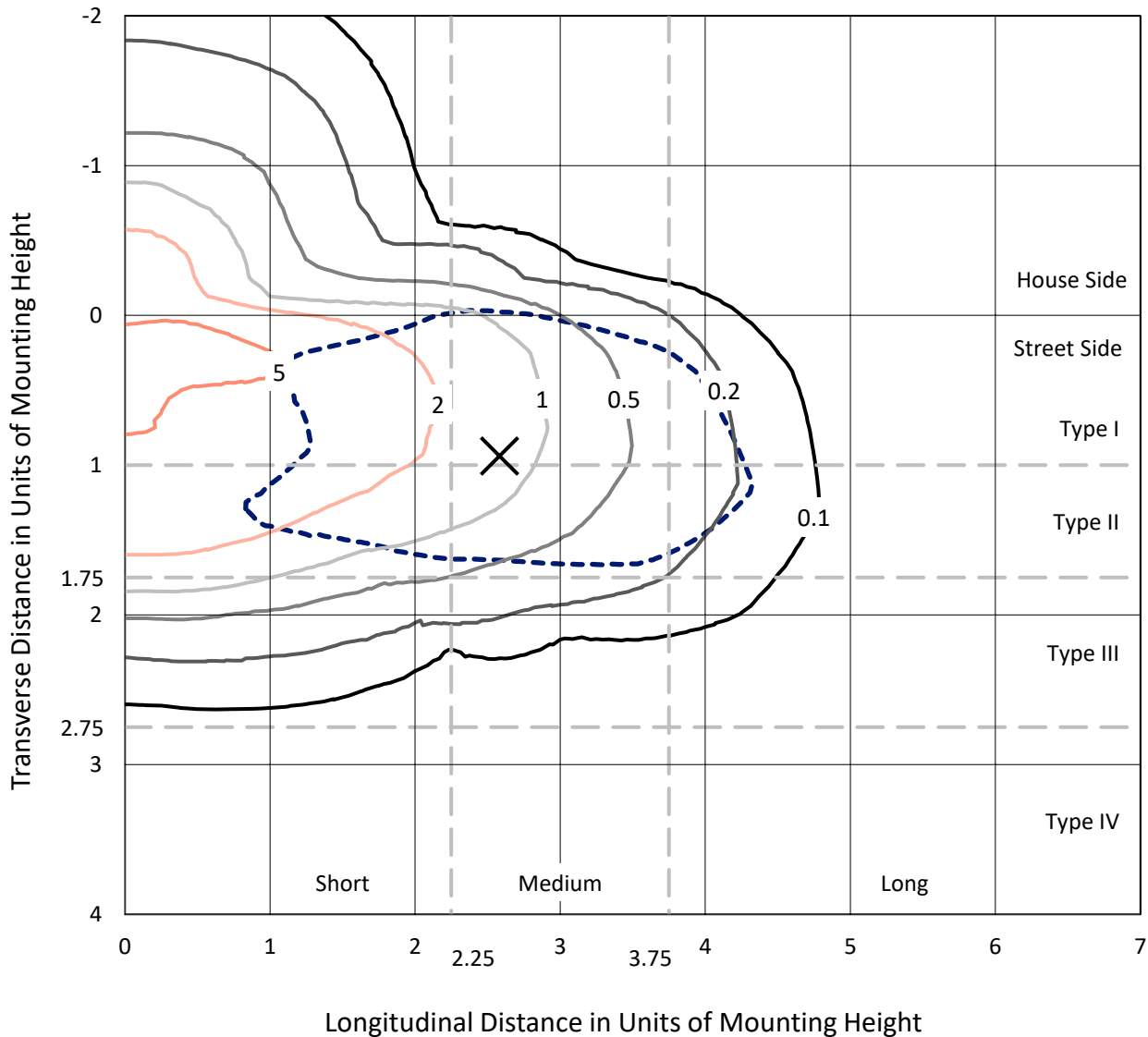
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

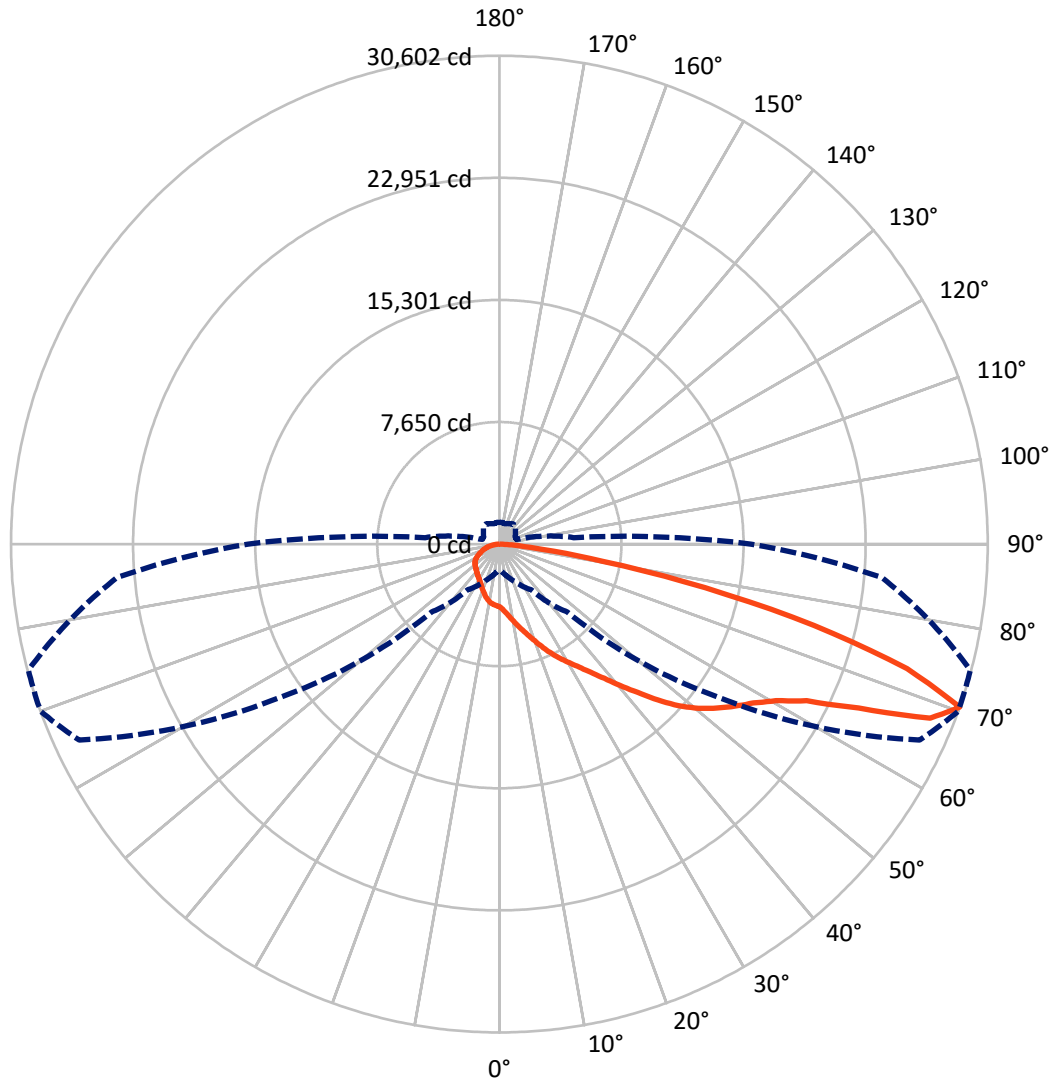
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	6049.4	0.0	6049.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	27708.1	0.0	27708.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	33757.5	0.0	33757.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	1.2
10°-20°	1301.6	3.9
20°-30°	2305.9	6.8
30°-40°	3470.4	10.3
40°-50°	5250.3	15.6
50°-60°	7521.4	22.3
60°-70°	8314.0	24.6
70°-80°	4691.8	13.9
80°-90°	501.9	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°	33757.5	100.0
0°-180°	33757.5	100.0

Coefficient of Utilization



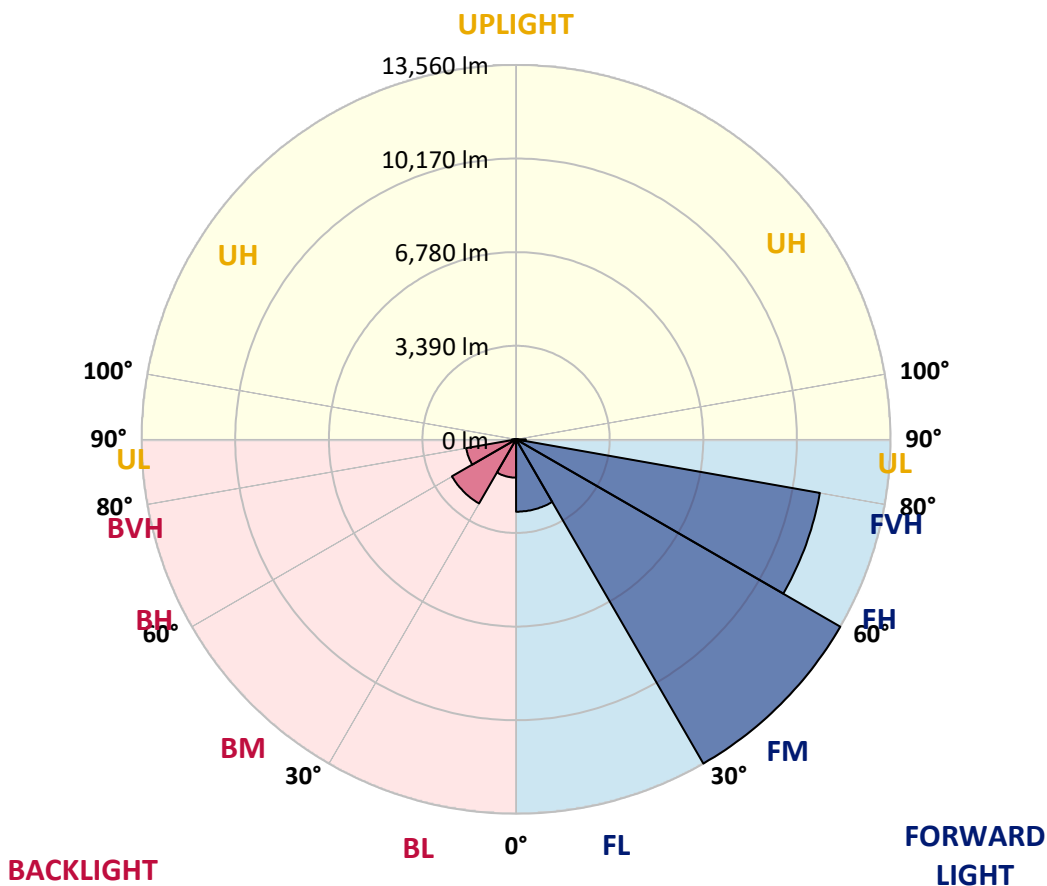
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2620.6	7.8			
FM (30°-60°)	13560.4	40.2			
FH (60°-80°)	11172.3	33.1			G4/12000
FVH (80°-90°)	354.8	1.1			G3/500
BL (0°-30°)	1387.1	4.1	B3/2500		
BM (30°-60°)	2681.8	7.9	B3/5000		
BH (60°-80°)	1833.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	147.1	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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	4361.2	4353.9	4358.8	4353.9	4327.1	4261.2	4207.6	4139.3	4092.9	4066.1	4002.7
5°	4873.5	4866.1	4849.1	4824.7	4775.9	4685.6	4551.5	4402.7	4312.5	4244.2	4110.0
7.5°	5241.8	5241.8	5239.3	5210.1	5175.9	5080.8	4922.2	4727.1	4595.4	4478.3	4258.8
10°	5429.6	5441.8	5458.9	5500.3	5493.0	5441.8	5293.0	5083.2	4917.4	4780.8	4453.9
12.5°	5532.0	5539.4	5568.6	5654.0	5741.8	5754.0	5666.2	5446.7	5266.2	5083.2	4671.0
15°	5663.8	5666.2	5705.2	5807.7	5936.9	6066.2	6044.3	5824.7	5639.4	5436.9	4912.5
17.5°	5766.2	5783.3	5854.0	5973.5	6134.5	6312.6	6419.9	6283.3	6054.0	5822.3	5175.9
20°	5802.8	5815.0	5907.7	6090.6	6310.1	6561.4	6800.4	6763.8	6532.1	6258.9	5473.5
22.5°	5934.5	5934.5	6002.8	6156.5	6415.0	6780.9	7168.7	7263.9	7059.0	6739.4	5793.0
25°	6224.8	6215.0	6246.7	6310.1	6505.3	6956.5	7532.2	7817.5	7588.3	7229.7	6112.6
27.5°	6622.4	6617.5	6615.0	6624.8	6690.6	7110.2	7839.5	8334.7	8105.4	7700.5	6397.9
30°	7054.1	7039.5	7071.2	7041.9	7027.3	7293.1	8100.5	8798.1	8620.0	8166.3	6634.5
32.5°	7641.9	7615.1	7607.8	7512.6	7454.1	7578.5	8310.3	9325.0	9183.5	8668.8	6900.4
35°	8417.6	8393.2	8268.8	8117.6	7944.4	8002.9	8571.3	9839.6	9849.4	9298.1	7249.2
37.5°	9200.6	9205.4	9107.9	8751.7	8573.7	8539.5	8968.8	10466.5	10676.3	10049.4	7700.5
40°	9851.8	9881.1	9881.1	9505.5	9239.6	9207.9	9527.4	11210.4	11627.5	10971.4	8271.2
42.5°	10347.0	10373.8	10459.2	10188.4	9907.9	10017.7	10205.5	11956.8	12705.6	12110.5	8993.2
45°	10890.9	10912.9	10959.2	10803.1	10639.7	10932.4	10973.8	12849.6	13939.9	13388.6	9832.3
47.5°	11612.9	11593.4	11598.3	11483.6	11356.8	11830.0	11820.2	13600.8	15132.6	14788.7	10742.1
50°	12510.5	12547.1	12513.0	12286.1	12137.3	12569.1	12625.2	14432.6	16181.5	16174.1	11659.2
52.5°	13374.0	13388.6	13569.1	13578.9	13274.0	13183.7	13330.1	15271.7	17066.9	17442.5	12539.8
55°	13417.9	13474.0	14015.5	14405.7	14898.5	14174.0	14042.3	16071.7	17923.0	18684.1	13454.5
57.5°	12483.7	12573.9	13493.5	14335.0	15705.8	15874.1	15261.9	17105.9	18779.2	19906.1	14513.1
60°	10488.4	10676.3	11925.1	13213.0	15342.4	17096.2	17757.2	18510.9	19903.6	21154.9	15798.5
62.5°	6698.0	6771.1	8522.5	10678.7	13705.7	16976.6	20474.4	20986.6	21615.9	22781.9	17779.1
65°	3353.9	3588.0	4614.9	6373.6	9883.5	14959.4	21847.7	25521.1	24750.3	25567.4	20989.1
67.5°	2275.7	2351.4	2870.9	3829.5	5795.5	10598.2	20996.4	29340.8	29114.0	29248.1	24411.2
70°	1678.2	1726.9	2136.7	2712.4	3505.1	6017.4	16715.6	29053.0	30601.9	30553.1	24052.7
72.5°	1224.5	1248.9	1558.6	2070.9	2597.7	3112.4	10207.9	23469.7	26713.8	28121.2	21035.4
75°	890.3	919.6	1083.0	1548.9	2019.6	1941.6	5039.3	16952.2	20372.0	23079.4	17137.6
77.5°	663.5	700.0	775.7	970.8	1414.7	1390.3	2178.2	11008.0	13176.4	15074.1	10410.4
80°	478.1	485.4	529.3	622.0	897.6	814.7	1036.6	5739.4	6580.9	7210.2	4080.7
82.5°	290.3	297.6	353.7	382.9	556.1	512.2	539.1	1858.6	2663.6	2827.0	1524.5
85°	85.4	90.2	161.0	175.6	231.7	219.5	217.1	756.1	902.5	1153.7	600.0
87.5°	0.0	0.0	0.0	0.0	2.4	14.6	26.8	134.2	202.5	280.5	146.4
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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	3978.3	3922.2	3892.9	3841.7	3805.1	3768.5	3731.9	3697.8	3683.1	3661.2	3666.1
5°	4049.0	3961.2	3873.4	3773.4	3688.0	3617.3	3553.9	3497.8	3473.4	3451.4	3461.2
7.5°	4156.3	4024.6	3856.3	3673.4	3539.2	3441.7	3375.8	3336.8	3324.6	3307.5	3307.5
10°	4292.9	4095.4	3800.2	3539.2	3378.3	3300.2	3270.9	3268.5	3280.7	3283.1	3278.2
12.5°	4444.2	4163.7	3717.3	3380.7	3244.1	3219.7	3241.7	3283.1	3324.6	3346.5	3341.7
15°	4600.3	4207.6	3575.8	3229.5	3146.5	3178.2	3249.0	3331.9	3412.4	3453.9	3451.4
17.5°	4746.6	4217.3	3392.9	3083.1	3061.2	3141.7	3263.6	3392.9	3502.7	3561.2	3563.6
20°	4910.1	4200.3	3205.1	2951.4	2975.8	3107.5	3268.5	3424.6	3553.9	3612.4	3627.0
22.5°	5058.8	4141.7	3022.1	2827.0	2902.6	3066.0	3229.5	3375.8	3490.5	3546.6	3566.1
25°	5193.0	4029.5	2822.1	2722.1	2846.5	3007.5	3131.9	3234.3	3314.8	3349.0	3375.8
27.5°	5266.2	3861.2	2670.9	2639.2	2792.9	2924.6	2992.9	3024.6	3051.4	3041.6	3061.2
30°	5280.8	3651.4	2539.2	2573.3	2712.4	2809.9	2824.6	2792.9	2746.5	2670.9	2688.0
32.5°	5266.2	3410.0	2429.4	2502.6	2622.1	2680.6	2661.1	2578.2	2466.0	2348.9	2356.2
35°	5271.1	3166.0	2339.2	2424.5	2517.2	2548.9	2500.2	2385.5	2266.0	2158.7	2153.8
37.5°	5324.7	2961.2	2263.6	2348.9	2414.8	2419.7	2366.0	2246.5	2185.5	2105.0	2095.2
40°	5473.5	2809.9	2195.3	2273.3	2314.8	2312.3	2251.4	2166.0	2207.5	2180.6	2173.3
42.5°	5717.4	2717.2	2139.2	2192.8	2222.1	2227.0	2178.2	2124.5	2214.8	2180.6	2168.4
45°	6110.1	2712.4	2100.1	2112.3	2158.7	2192.8	2158.7	2097.7	2131.8	1966.0	1934.3
47.5°	6576.0	2795.3	2070.9	2041.6	2122.1	2183.1	2129.4	2031.8	1961.1	1809.9	1787.9
50°	7137.0	2963.6	2044.0	1966.0	2068.4	2146.5	2092.8	1958.7	1851.3	1770.8	1758.6
52.5°	7802.9	3185.6	2009.9	1880.6	1987.9	2127.0	2092.8	1951.3	1809.9	1736.7	1724.5
55°	8500.5	3441.7	1970.9	1778.2	1897.7	2131.8	2109.9	1900.1	1778.2	1739.1	1729.4
57.5°	9366.4	3749.0	1900.1	1658.6	1817.2	2087.9	2041.6	1870.8	1756.2	1724.5	1714.7
60°	10490.9	4205.1	1766.0	1536.7	1724.5	2009.9	1980.6	1822.1	1697.7	1670.8	1663.5
62.5°	12271.5	4978.3	1602.5	1419.6	1614.7	1846.5	1890.4	1729.4	1624.5	1622.0	1619.6
65°	15174.1	5907.7	1409.8	1314.7	1500.1	1712.3	1770.8	1634.2	1548.9	1575.7	1573.3
67.5°	17208.4	5988.2	1251.3	1205.0	1365.9	1565.9	1651.3	1536.7	1444.0	1495.2	1492.8
70°	15761.9	4671.0	1114.7	1090.3	1222.0	1407.4	1522.0	1414.7	1322.0	1370.8	1361.1
72.5°	13293.5	3580.7	985.4	970.8	1075.7	1241.5	1356.2	1292.8	1195.2	1195.2	1173.2
75°	10683.6	2953.8	848.8	841.5	912.3	1073.2	1202.5	1095.2	1004.9	1000.1	985.4
77.5°	6127.2	1936.7	712.2	707.4	729.3	897.6	934.2	912.3	844.0	812.2	802.5
80°	2441.6	1007.4	561.0	529.3	551.3	658.6	736.6	700.0	641.5	602.5	580.5
82.5°	946.4	504.9	395.1	346.4	378.1	475.6	534.2	522.0	483.0	395.1	370.8
85°	385.4	246.4	236.6	200.0	219.5	256.1	307.3	265.9	219.5	156.1	148.8
87.5°	102.4	90.2	87.8	53.7	41.5	12.2	2.4	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)