

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: P638725

Luminaire Tested: GWS-SA4F-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638725
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-SA4F-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32414.3 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

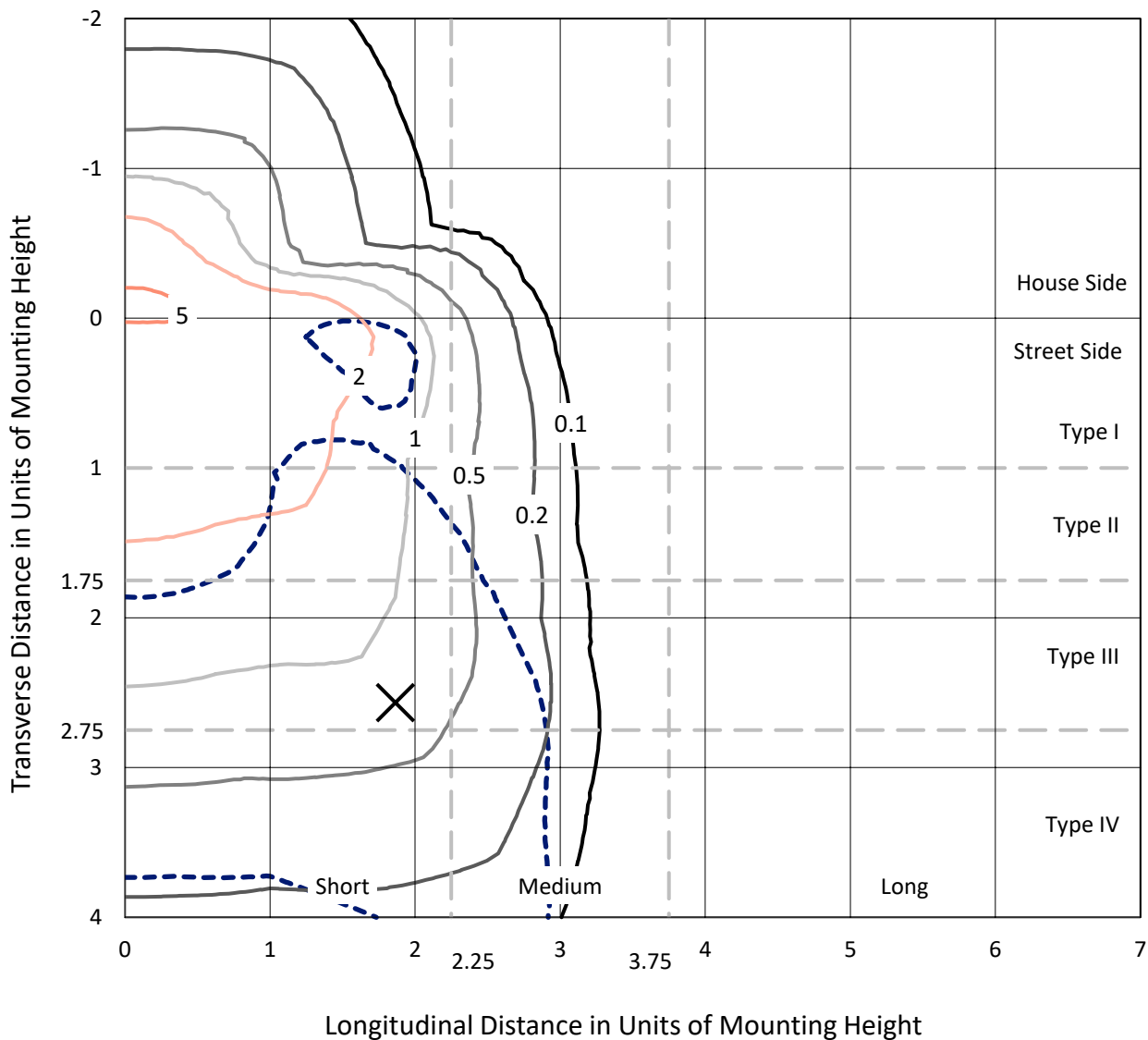
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638725
 CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

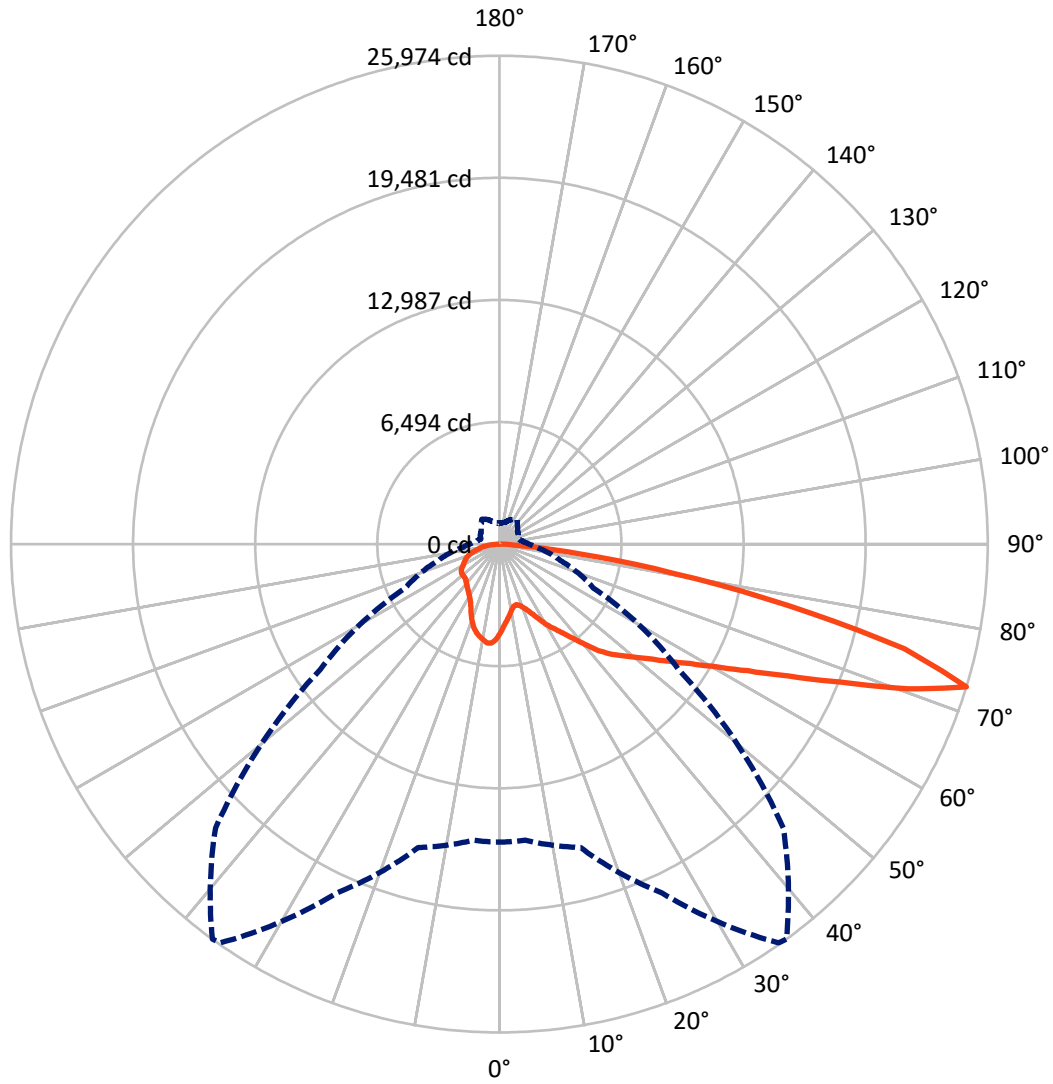
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P638725
CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638725

CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7472.9	0.0	7472.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	24941.4	0.0	24941.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	32414.3	0.0	32414.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.4
10°-20°	1251.1	3.9
20°-30°	2072.0	6.4
30°-40°	3103.0	9.6
40°-50°	4527.0	14.0
50°-60°	6443.2	19.9
60°-70°	8140.5	25.1
70°-80°	5800.8	17.9
80°-90°	633.2	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°	32414.3	100.0
0°-180°	32414.3	100.0

Coefficient of Utilization



REPORT NUMBER: P638725

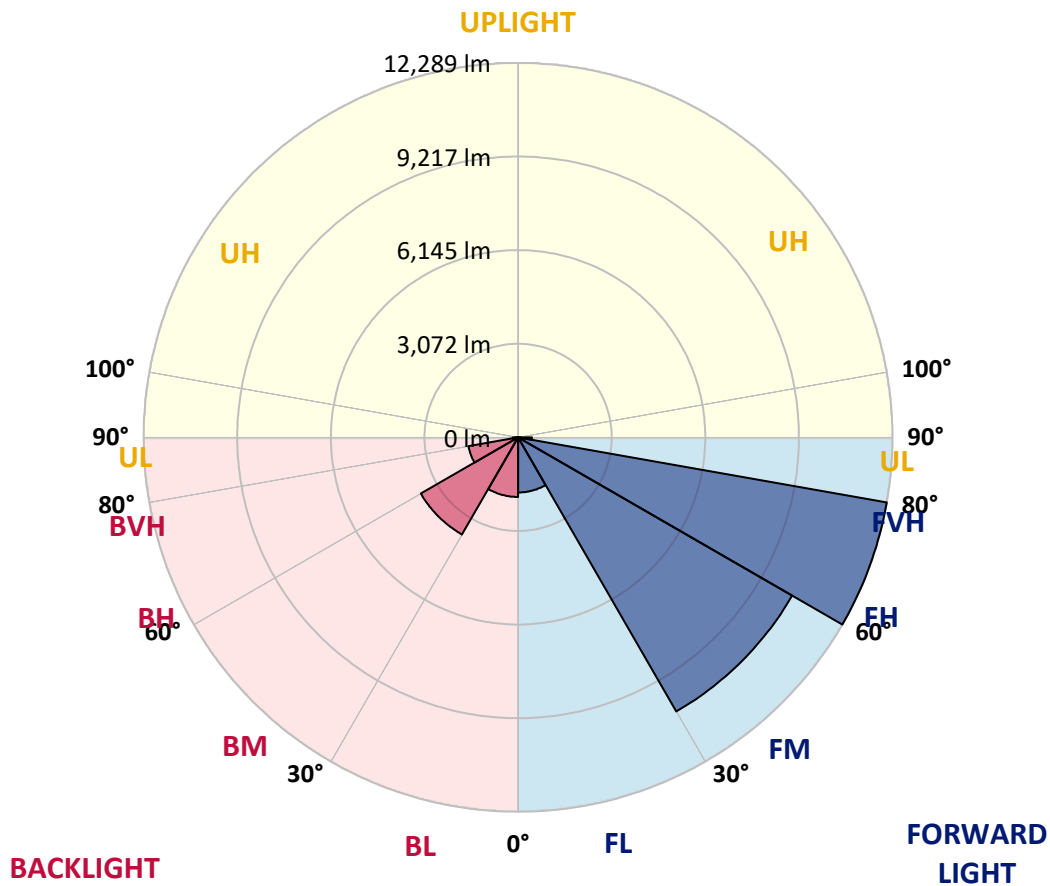
CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.6	5.6			
FM (30°-60°)	10388.0	32.0			
FH (60°-80°)	12289.3	37.9			G5
FVH (80°-90°)	454.5	1.4			G3/500
BL (0°-30°)	1956.9	6.0	B3/2500		
BM (30°-60°)	3685.2	11.4	B3/5000		
BH (60°-80°)	1652.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	178.7	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





REPORT NUMBER: P638725

CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0
2.5°	4327.8	4320.6	4306.1	4349.4	4392.8	4387.9	4448.1	4505.8	4568.4	4633.3	4719.9
5°	3981.4	3976.6	3964.5	4029.5	4094.4	4092.0	4190.7	4284.5	4412.0	4551.5	4724.7
7.5°	3635.0	3622.9	3639.8	3721.6	3813.0	3822.6	3957.3	4111.3	4296.5	4505.8	4751.2
10°	3329.4	3327.0	3334.3	3425.7	3562.8	3572.4	3745.6	3959.7	4205.1	4484.2	4811.3
12.5°	3250.1	3245.2	3226.0	3271.7	3375.2	3389.6	3579.6	3841.9	4142.6	4496.2	4893.1
15°	3380.0	3367.9	3300.6	3278.9	3329.4	3341.5	3502.7	3772.1	4106.5	4517.8	4996.6
17.5°	3603.7	3596.5	3469.0	3380.0	3413.6	3423.3	3543.5	3760.1	4096.9	4561.1	5124.1
20°	3930.9	3899.6	3699.9	3565.2	3565.2	3579.6	3651.8	3813.0	4108.9	4614.1	5268.4
22.5°	4363.9	4301.3	4019.9	3837.0	3788.9	3808.2	3839.4	3945.3	4159.4	4703.1	5448.8
25°	4849.8	4792.1	4457.7	4200.3	4132.9	4140.2	4113.7	4132.9	4270.1	4825.8	5672.6
27.5°	5367.0	5328.6	4972.5	4645.3	4539.5	4539.5	4445.7	4400.0	4424.0	4965.3	5922.8
30°	5828.9	5776.0	5475.3	5116.9	4977.3	4977.3	4799.3	4700.7	4642.9	5136.1	6257.1
32.5°	6071.9	6040.6	5841.0	5566.7	5395.9	5369.5	5215.5	5100.0	4965.3	5388.7	6709.4
35°	6389.5	6382.2	6262.0	6047.9	5831.3	5792.8	5687.0	5595.6	5362.2	5703.8	7310.8
37.5°	6788.8	6776.8	6757.5	6630.0	6370.2	6363.0	6269.2	6158.5	5855.4	6158.5	8039.7
40°	7236.3	7214.6	7190.5	7188.1	7031.8	7005.3	6998.1	6873.0	6449.6	6707.0	8799.9
42.5°	7852.1	7777.5	7551.4	7652.4	7767.9	7743.8	7835.3	7647.6	7190.5	7358.9	9519.2
45°	8609.9	8427.1	7979.6	8008.5	8299.6	8347.7	8665.2	8619.5	8006.1	8111.9	10277.0
47.5°	9064.6	8905.8	8489.6	8465.5	8828.8	8888.9	9579.4	9666.0	8884.1	9018.9	11212.8
50°	9437.4	9326.8	8985.2	9018.9	9403.8	9463.9	10486.3	10671.5	9711.7	9947.4	12300.2
52.5°	9887.3	9728.5	9463.9	9622.7	10094.2	10166.4	11494.3	11694.0	10457.4	10967.4	13426.0
55°	10139.9	10074.9	10079.8	10322.7	10914.5	11013.1	12550.4	12516.7	11140.7	11840.7	14272.8
57.5°	10722.1	10698.0	10919.3	11010.7	11872.0	11999.5	13606.5	13317.8	11761.3	12516.7	14679.4
60°	11749.3	11689.1	11881.6	12021.1	13055.6	13236.0	14785.2	14102.0	12182.3	13019.5	14542.3
62.5°	13192.7	13118.1	13125.3	13346.6	14640.9	14830.9	16096.3	14756.4	12312.2	13096.5	13673.8
65°	14987.3	14879.1	14756.4	15057.1	16745.9	16904.6	17522.9	15232.7	12001.9	12355.5	11859.9
67.5°	16880.6	16791.6	16647.2	17277.5	19471.5	19567.7	19122.7	15191.8	11018.0	10373.2	8318.8
70°	16991.2	17012.9	17696.1	19976.7	23029.5	23053.5	20635.8	14369.1	8922.6	6723.8	4145.0
72.5°	15850.9	15814.9	16705.0	20469.8	25892.2	25974.0	21350.3	11641.0	5513.8	3353.5	1943.8
75°	12875.1	12937.7	13873.5	17910.2	22192.3	22264.5	17405.0	6863.4	2619.8	1640.7	1243.7
77.5°	5542.7	5891.5	7736.6	12617.7	15894.3	15670.5	8970.7	2781.0	1397.7	1169.2	952.6
80°	1599.8	1736.9	2756.9	5999.7	9524.0	9355.6	3550.8	1041.7	974.3	878.1	683.2
82.5°	517.2	572.5	1010.4	2388.8	4267.7	4262.8	1347.2	615.9	637.5	596.6	440.2
85°	144.3	166.0	310.3	724.1	1320.7	1294.2	389.7	291.1	339.2	344.0	218.9
87.5°	0.0	0.0	2.4	4.8	4.8	4.8	9.6	43.3	98.6	125.1	89.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638725
 CATALOG NUMBER: GWS-SA4F-735-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0
2.5°	4772.8	4765.6	4864.3	4941.2	5013.4	5061.5	5076.0	5085.6	5104.8	5114.5	5104.8
5°	4806.5	4842.6	5006.2	5126.5	5222.7	5280.4	5282.8	5278.0	5292.5	5280.4	5273.2
7.5°	4878.7	4948.5	5155.3	5282.8	5345.4	5347.8	5290.1	5222.7	5189.0	5160.2	5150.5
10°	4974.9	5078.4	5304.5	5388.7	5369.5	5280.4	5152.9	5047.1	4987.0	4943.6	4934.0
12.5°	5107.2	5222.7	5436.8	5434.4	5314.1	5155.3	5006.2	4878.7	4792.1	4741.6	4724.7
15°	5232.3	5379.1	5533.0	5420.0	5229.9	5037.5	4845.0	4674.2	4558.7	4479.4	4464.9
17.5°	5386.3	5542.7	5602.8	5374.3	5124.1	4876.3	4618.9	4395.2	4238.8	4145.0	4137.7
20°	5564.3	5703.8	5636.5	5294.9	4987.0	4662.2	4313.4	4063.2	3894.8	3803.4	3810.6
22.5°	5771.2	5872.2	5646.1	5186.6	4796.9	4359.1	3969.4	3728.8	3615.7	3567.6	3570.0
25°	5992.5	6057.5	5629.3	5039.9	4505.8	3988.6	3615.7	3505.1	3495.4	3483.4	3488.2
27.5°	6254.7	6240.3	5578.7	4833.0	4113.7	3558.0	3367.9	3396.8	3435.3	3430.5	3435.3
30°	6606.0	6468.8	5513.8	4546.7	3647.0	3197.1	3221.2	3303.0	3353.5	3358.3	3372.7
32.5°	7007.7	6721.4	5410.3	4157.0	3201.9	2995.1	3084.1	3182.7	3242.8	3254.9	3274.1
35°	7486.4	7010.1	5227.5	3671.0	2882.0	2874.8	2956.6	3023.9	3088.9	3093.7	3093.7
37.5°	8037.3	7298.8	4936.4	3134.6	2684.7	2771.3	2848.3	2862.7	2879.6	2865.2	2872.4
40°	8542.5	7577.9	4522.7	2646.2	2523.5	2679.9	2744.9	2696.8	2643.8	2607.7	2615.0
42.5°	8965.9	7767.9	3974.2	2304.6	2360.0	2598.1	2648.6	2550.0	2446.6	2379.2	2388.8
45°	9442.2	7943.5	3329.4	2073.7	2220.4	2540.4	2574.1	2446.6	2314.3	2213.2	2198.8
47.5°	10099.0	8302.0	2756.9	1912.5	2121.8	2509.1	2564.4	2391.2	2218.0	2066.5	2049.6
50°	10909.7	8809.6	2278.2	1806.7	2076.1	2492.3	2562.0	2331.1	2124.2	1946.2	1934.2
52.5°	11795.0	9305.1	1924.5	1724.9	2030.4	2441.8	2550.0	2263.7	2025.6	1833.1	1818.7
55°	12384.4	9500.0	1686.4	1647.9	1955.8	2362.4	2501.9	2198.8	1876.4	1700.8	1679.2
57.5°	12557.6	9249.8	1520.4	1578.1	1859.6	2251.7	2410.5	2061.7	1785.0	1645.5	1628.6
60°	12259.3	8619.5	1416.9	1520.4	1753.7	2109.8	2251.7	1982.3	1712.8	1587.7	1575.7
62.5°	11417.3	7647.6	1337.6	1460.2	1645.5	1960.6	2150.7	1886.0	1633.4	1534.8	1518.0
65°	9723.7	6271.6	1272.6	1397.7	1542.0	1818.7	2040.0	1789.8	1546.8	1472.3	1453.0
67.5°	6800.8	4404.8	1202.8	1323.1	1438.6	1681.6	1924.5	1700.8	1457.8	1402.5	1383.3
70°	3324.6	2335.9	1118.6	1236.5	1327.9	1542.0	1809.1	1592.6	1340.0	1308.7	1282.2
72.5°	1582.9	1306.3	1020.0	1118.6	1176.4	1356.8	1616.6	1436.2	1200.4	1133.1	1087.4
75°	1060.9	928.6	890.1	979.1	993.5	1137.9	1385.7	1238.9	1058.5	981.5	943.0
77.5°	803.5	709.7	748.2	827.5	798.7	935.8	1140.3	1104.2	955.1	885.3	866.0
80°	565.3	517.2	594.2	642.3	620.7	796.3	1027.2	945.4	786.7	709.7	695.2
82.5°	356.0	346.4	437.8	445.0	452.3	630.3	844.4	743.4	611.0	502.8	466.7
85°	178.0	197.3	262.2	262.2	259.8	324.8	481.1	418.6	329.6	262.2	255.0
87.5°	60.1	84.2	113.1	91.4	69.8	55.3	62.5	77.0	81.8	79.4	79.4
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)