

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: P638854

Luminaire Tested: GWS-SA4F-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20156.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

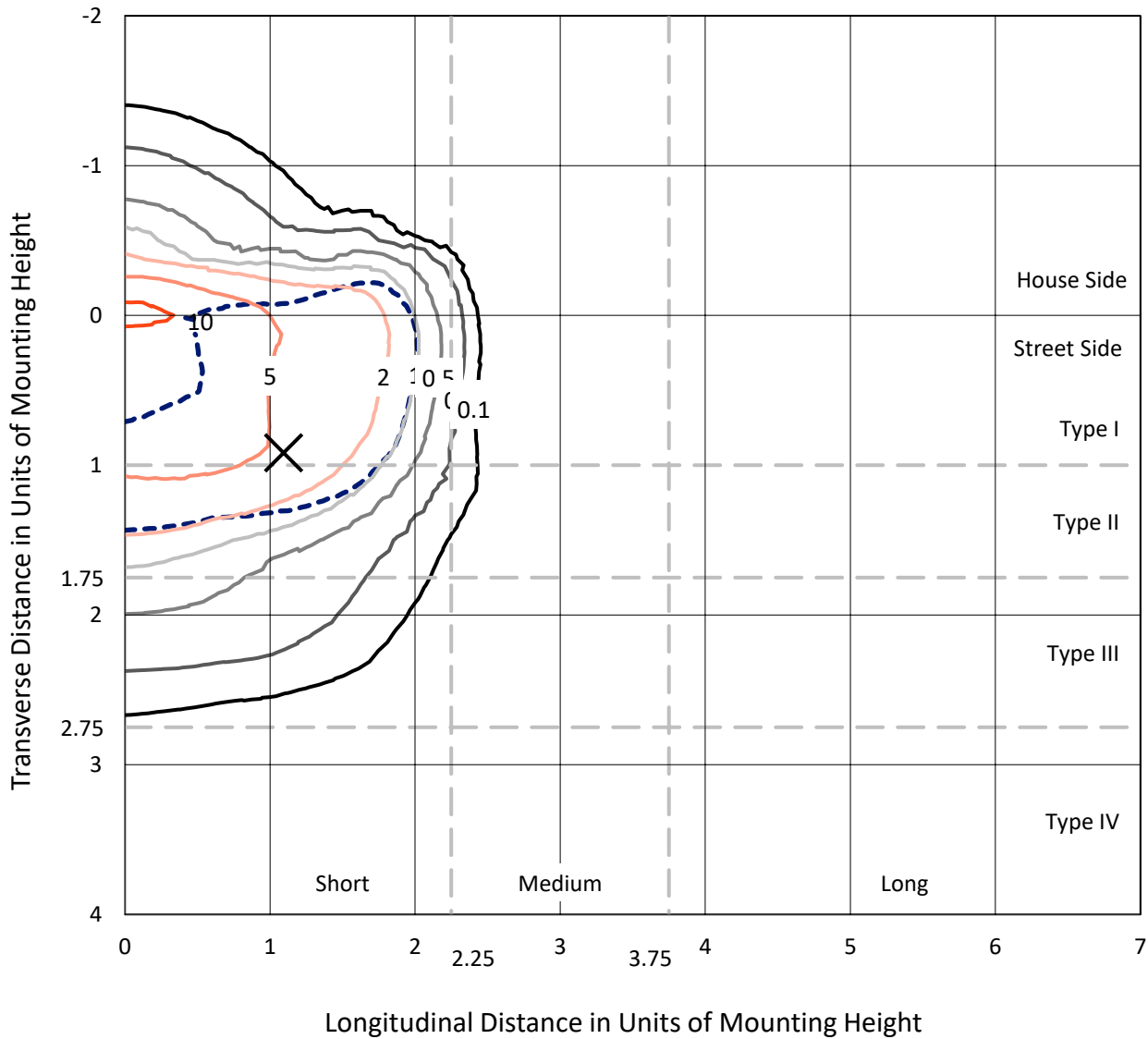
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638854
 CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

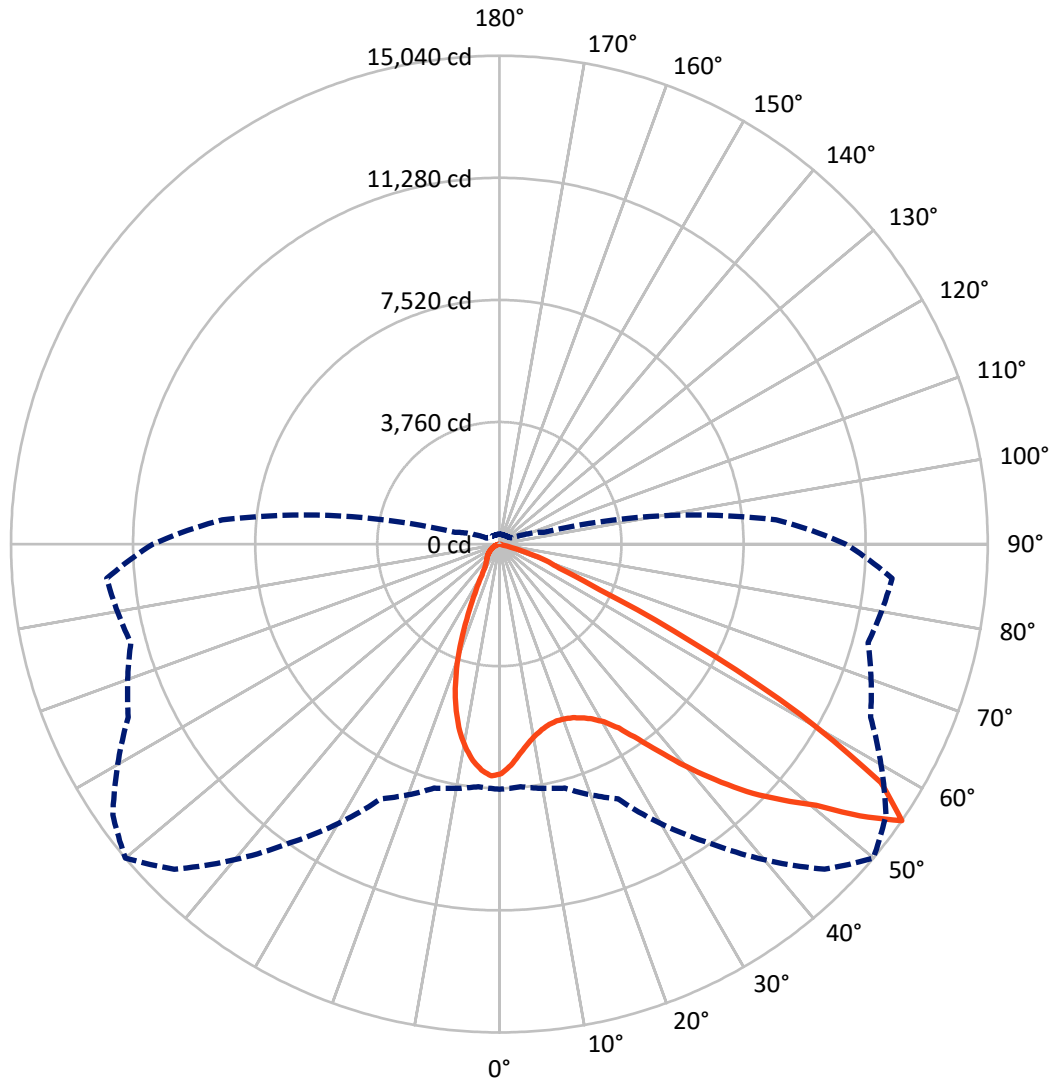
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P638854
CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638854
 CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3971.8	0.0	3971.8
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	16184.8	0.0	16184.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	20156.6	0.0	20156.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.1	3.1
10°-20°	1528.4	7.6
20°-30°	2155.8	10.7
30°-40°	3190.2	15.8
40°-50°	4602.4	22.8
50°-60°	5428.8	26.9
60°-70°	2421.7	12.0
70°-80°	208.2	1.0
80°-90°	0.1	0.0
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°	20156.6	100.0
0°-180°	20156.6	100.0

Coefficient of Utilization



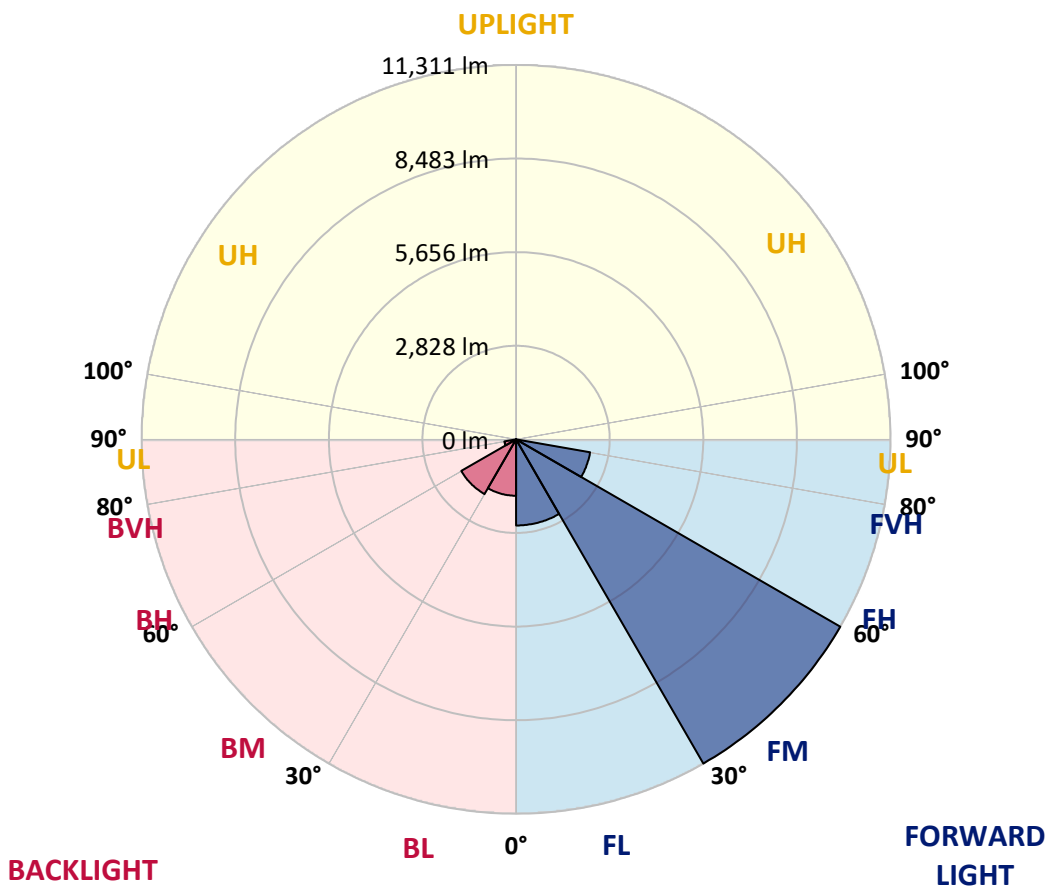
REPORT NUMBER: P638854

CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.3	12.9			
FM (30°-60°)	11311.2	56.1			
FH (60°-80°)	2271.3	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1703.0	8.4	B3/2500		
BM (30°-60°)	1910.1	9.5	B2/2500		
BH (60°-80°)	358.6	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P638854

CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1
2.5°	6570.1	6575.0	6577.5	6643.9	6668.5	6766.9	6818.6	6845.7	6917.0	7000.7	7069.6
5°	6129.6	6122.2	6134.5	6218.2	6272.3	6417.5	6496.3	6550.4	6707.9	6904.7	7069.6
7.5°	5745.7	5760.5	5775.3	5866.3	5947.5	6105.0	6218.2	6299.4	6518.4	6811.2	7089.3
10°	5475.1	5475.1	5497.2	5600.6	5696.5	5890.9	6004.1	6107.5	6368.3	6727.6	7111.4
12.5°	5275.7	5278.2	5305.3	5423.4	5534.1	5735.9	5854.0	5954.9	6242.8	6643.9	7116.3
15°	5182.2	5174.9	5197.0	5322.5	5445.5	5635.0	5758.0	5856.5	6154.2	6597.1	7141.0
17.5°	5157.6	5152.7	5169.9	5293.0	5418.5	5603.0	5723.6	5822.0	6141.9	6611.9	7214.8
20°	5229.0	5219.1	5211.8	5317.6	5435.7	5617.8	5743.3	5854.0	6201.0	6693.1	7328.0
22.5°	5398.8	5398.8	5381.6	5433.2	5512.0	5676.8	5807.3	5952.4	6356.0	6855.5	7495.3
25°	5711.3	5686.7	5654.7	5676.8	5667.0	5770.3	5925.4	6127.1	6648.8	7123.7	7699.5
27.5°	6068.1	6090.2	6036.1	6038.6	5952.4	5915.5	6095.2	6400.3	7084.4	7502.7	8002.2
30°	6552.8	6535.6	6538.1	6530.7	6331.4	6156.7	6351.1	6757.1	7633.1	8080.9	8395.9
32.5°	6931.8	6956.4	7037.6	7084.4	6823.5	6543.0	6749.7	7241.8	8258.1	8740.4	8878.2
35°	7332.9	7377.2	7542.1	7694.6	7475.6	7153.3	7374.7	7884.1	8846.2	9392.5	9431.9
37.5°	7756.1	7844.7	8041.6	8309.8	8275.3	7989.9	8191.7	8639.5	9308.8	9786.2	9889.6
40°	8240.9	8327.0	8649.4	9035.7	9116.9	9052.9	9119.4	9380.2	9614.0	9803.4	10086.4
42.5°	8772.4	8890.5	9299.0	9815.7	10120.9	10177.5	10022.4	9995.4	9746.8	9606.6	10044.6
45°	9399.9	9537.7	10000.3	10669.6	11154.4	11230.6	10962.4	10615.5	9830.5	9461.4	9919.1
47.5°	10103.6	10234.1	10694.2	11498.9	12219.8	12249.4	11781.8	11223.3	10079.0	9628.7	10015.1
50°	10339.9	10421.1	10819.7	11764.6	13093.4	13319.8	12643.1	11907.3	10578.6	10120.9	10482.6
52.5°	9527.8	9559.8	9906.8	10861.5	12916.2	14370.5	13900.5	12928.5	11466.9	10871.4	11203.6
55°	7549.4	7497.8	7778.3	8654.3	11225.7	14156.4	15039.8	14532.9	12611.1	11752.3	12141.1
57.5°	5280.7	5219.1	5155.2	5748.2	8376.2	12000.8	13858.7	14756.8	13701.2	12625.9	13152.4
60°	4340.7	4281.6	3971.6	3698.4	5064.1	8617.4	10645.0	12335.5	13612.6	12581.6	13120.5
62.5°	3750.1	3715.7	3590.2	3218.6	2979.9	4918.9	6666.0	8285.2	10445.7	9879.7	9909.2
65°	2945.5	2935.6	3021.7	3061.1	2635.4	2721.5	3400.7	4306.2	5647.3	5325.0	5049.4
67.5°	2012.9	1990.7	2153.1	2647.7	2534.5	2148.2	1990.7	2007.9	2443.5	1493.6	1186.1
70°	1279.6	1227.9	1230.4	1641.3	2062.1	1695.4	1535.5	1350.9	1215.6	221.5	251.0
72.5°	819.4	787.4	676.7	740.7	954.8	826.8	834.2	718.5	479.8	118.1	137.8
75°	344.5	317.4	243.6	194.4	191.9	120.6	105.8	98.4	66.4	66.4	71.4
77.5°	2.5	0.0	0.0	2.5	4.9	2.5	2.5	4.9	9.8	14.8	17.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P638854

CATALOG NUMBER: GWS-SA4F-760-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1	7072.1
2.5°	7111.4	7052.4	7118.8	7143.4	7141.0	7143.4	7072.1	7022.8	7020.4	6958.9	6929.3
5°	7138.5	7091.7	7141.0	7109.0	7032.7	6936.7	6808.8	6698.0	6648.8	6577.5	6543.0
7.5°	7190.2	7141.0	7133.6	7005.6	6816.1	6614.4	6388.0	6186.2	6077.9	5947.5	5954.9
10°	7227.1	7170.5	7074.5	6813.7	6498.7	6176.4	5839.2	5539.0	5349.6	5174.9	5145.3
12.5°	7241.8	7158.2	6934.3	6540.5	6097.6	5676.8	5182.2	4754.1	4458.8	4229.9	4198.0
15°	7268.9	7133.6	6754.6	6210.8	5603.0	5007.5	4377.6	3791.9	3400.7	3137.4	3159.5
17.5°	7310.7	7106.5	6552.8	5841.7	5071.5	4229.9	3378.5	2706.8	2347.5	2194.9	2197.4
20°	7369.8	7074.5	6331.4	5435.7	4434.2	3351.5	2362.3	1855.4	1754.5	1749.6	1742.2
22.5°	7448.5	7042.5	6095.2	4990.3	3678.7	2347.5	1572.4	1414.9	1456.7	1537.9	1552.7
25°	7542.1	7003.2	5831.9	4488.3	2854.4	1540.4	1178.7	1154.1	1255.0	1363.2	1387.8
27.5°	7687.2	6983.5	5531.7	3917.4	2003.0	1104.9	964.6	979.4	1070.4	1161.5	1183.6
30°	7933.3	7020.4	5204.4	3277.7	1286.9	880.9	836.6	858.8	908.0	954.8	974.4
32.5°	8268.0	7128.7	4887.0	2578.8	917.8	765.3	755.4	767.7	787.4	814.5	821.9
35°	8659.2	7315.7	4559.7	1845.5	757.9	698.8	689.0	689.0	698.8	703.8	706.2
37.5°	8981.6	7512.5	4252.1	1227.9	679.2	647.2	632.4	625.0	622.6	627.5	629.9
40°	9121.8	7593.7	3917.4	893.2	622.6	600.4	578.3	556.1	556.1	573.3	575.8
42.5°	9023.4	7502.7	3531.1	738.2	583.2	551.2	516.7	497.1	506.9	524.1	529.1
45°	8814.2	7278.8	3105.4	652.1	543.8	502.0	462.6	450.3	460.2	482.3	487.2
47.5°	8779.8	7131.1	2596.0	595.5	502.0	460.2	418.3	406.0	418.3	435.5	440.5
50°	9121.8	7259.1	2030.1	546.3	462.6	415.9	381.4	369.1	376.5	386.3	391.3
52.5°	9746.8	7734.0	1638.8	499.5	415.9	371.6	349.4	334.7	334.7	344.5	347.0
55°	10669.6	8563.2	1414.9	445.4	361.7	337.1	317.4	302.7	302.7	307.6	310.0
57.5°	11732.6	9567.2	1466.6	374.0	317.4	305.1	287.9	275.6	280.5	280.5	280.5
60°	11585.0	9493.4	1569.9	315.0	280.5	275.6	260.8	255.9	268.2	258.4	253.5
62.5°	8533.7	6557.8	821.9	258.4	241.1	236.2	226.4	236.2	253.5	226.4	216.5
65°	4143.8	3174.3	329.7	211.6	204.2	199.3	194.4	209.2	219.0	177.2	167.3
67.5°	974.4	792.3	214.1	179.6	169.8	159.9	164.9	167.3	159.9	120.6	115.7
70°	253.5	248.5	167.3	150.1	135.3	125.5	125.5	123.0	105.8	76.3	71.4
72.5°	137.8	135.3	120.6	113.2	93.5	83.7	86.1	76.3	59.1	44.3	41.8
75°	68.9	73.8	68.9	64.0	51.7	46.8	46.8	41.8	29.5	17.2	17.2
77.5°	14.8	17.2	17.2	14.8	12.3	9.8	9.8	12.3	4.9	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)