

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: P638801

Luminaire Tested: GWS-SA4F-750-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27589.9 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

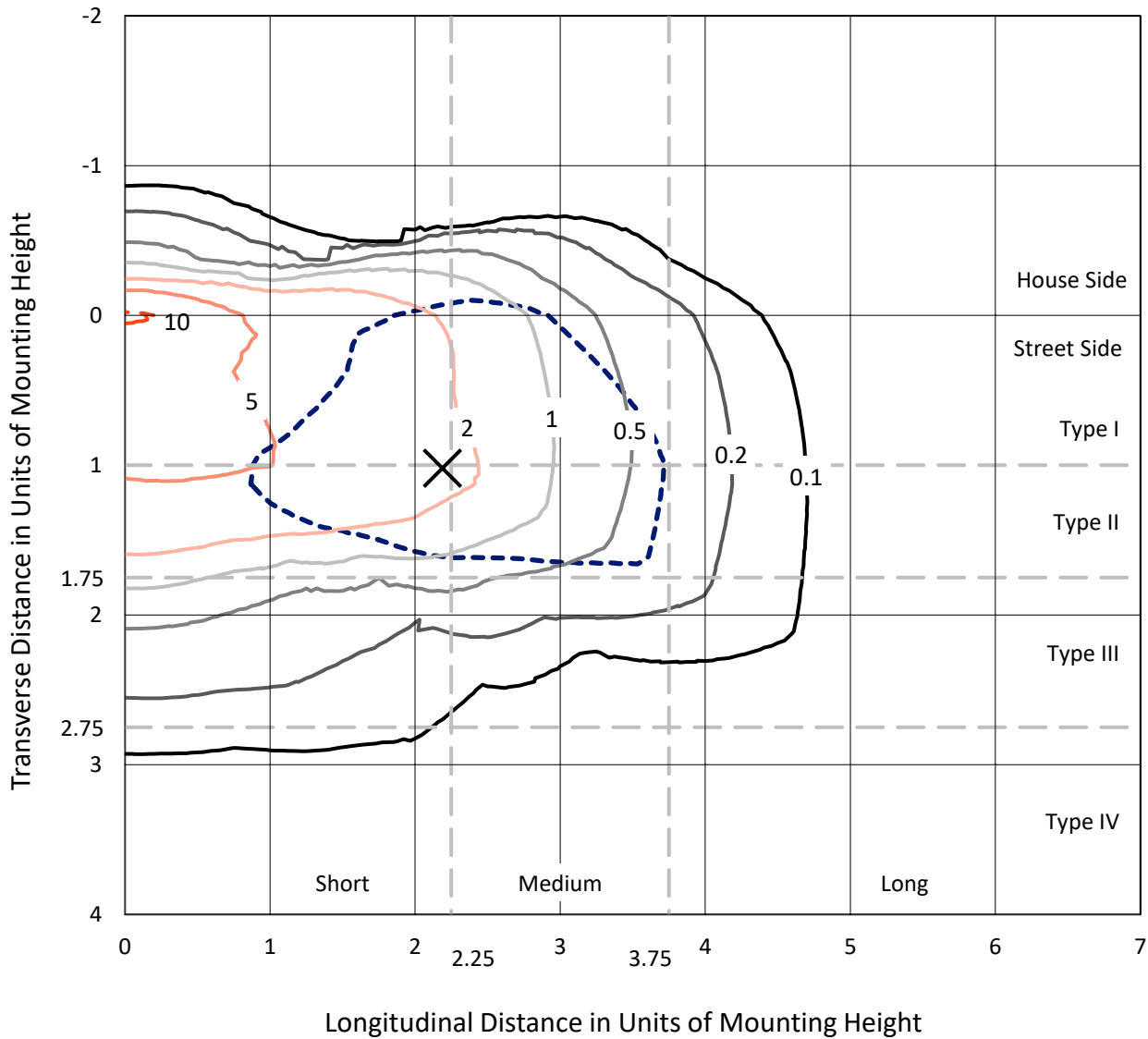
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

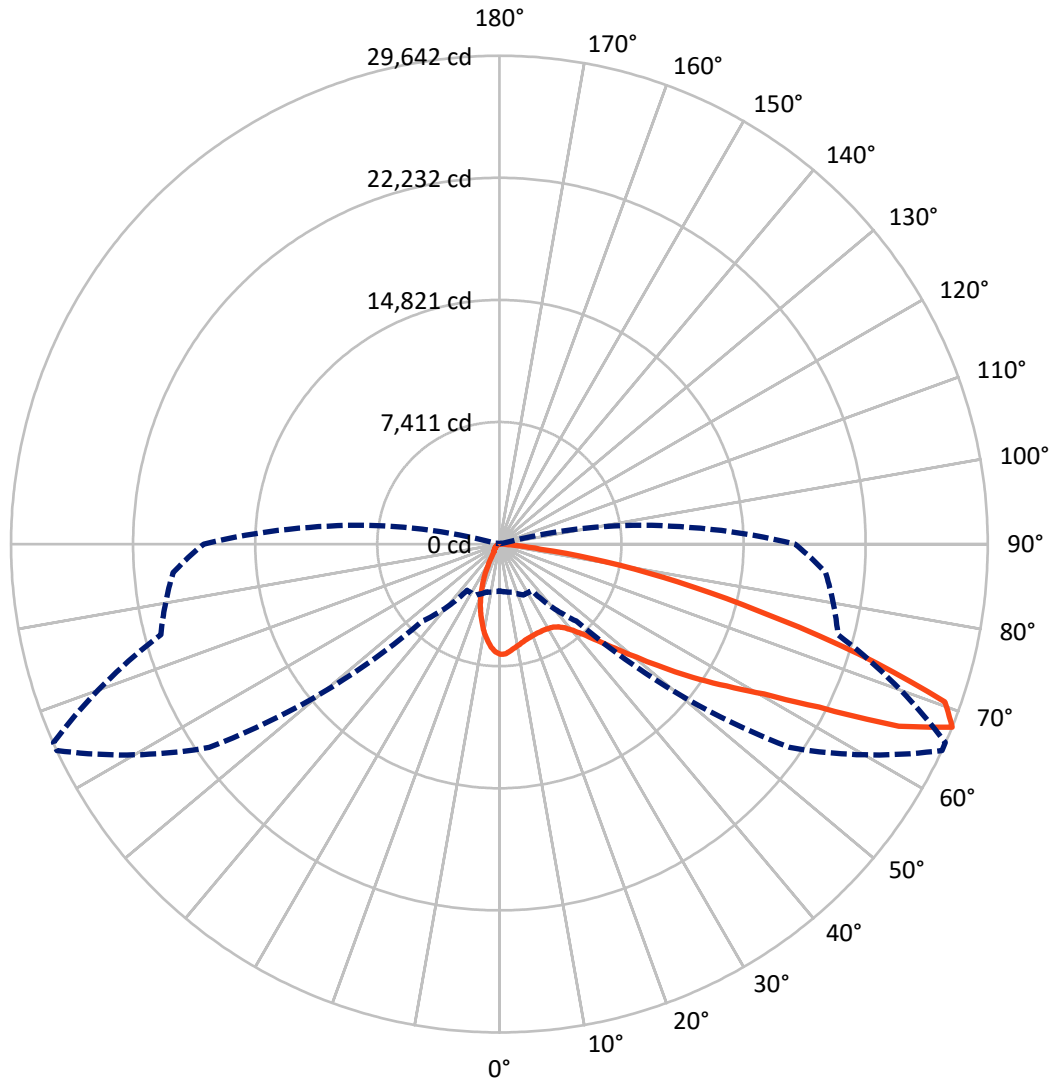
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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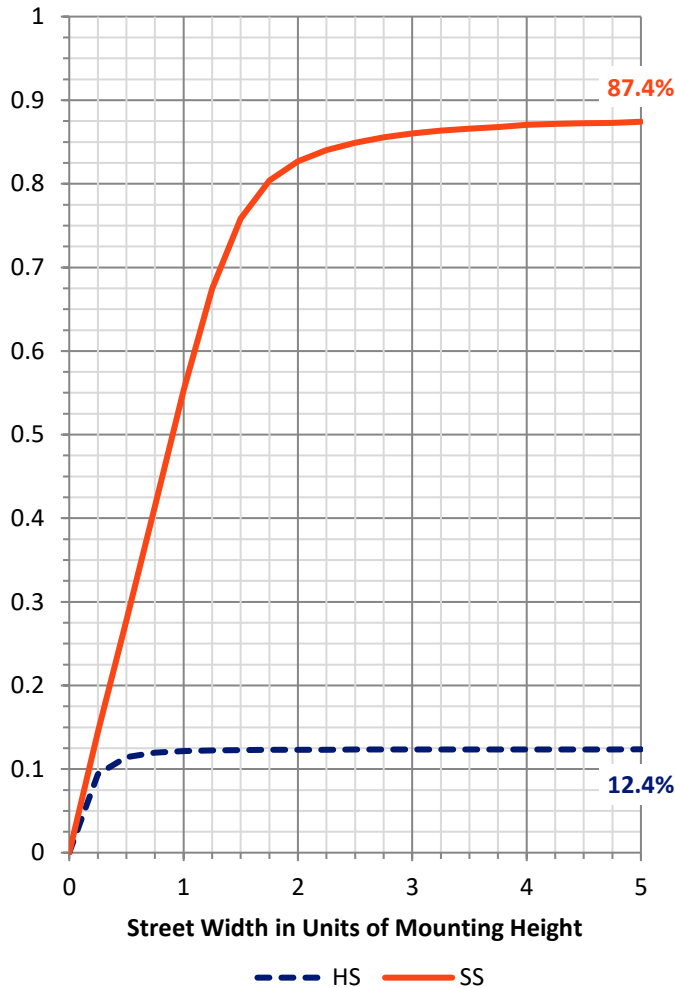
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3445.2	0.0	3445.2
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	24144.7	0.0	24144.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	27589.9	0.0	27589.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.8	2.0
10°-20°	1249.3	4.5
20°-30°	1785.2	6.5
30°-40°	2597.2	9.4
40°-50°	4067.7	14.7
50°-60°	6345.7	23.0
60°-70°	6970.5	25.3
70°-80°	3709.6	13.4
80°-90°	308.9	1.1
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°	27589.9	100.0
0°-180°	27589.9	100.0

Coefficient of Utilization



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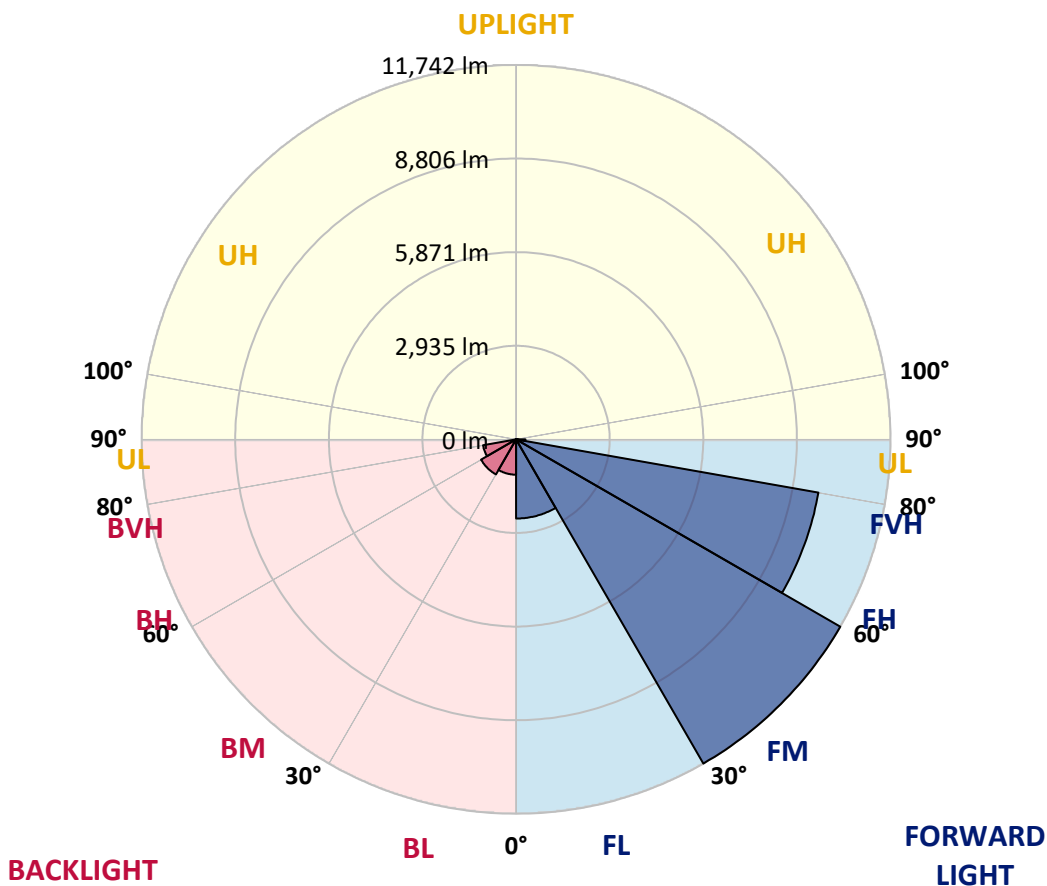
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.9	9.0			
FM (30°-60°)	11741.7	42.6			
FH (60°-80°)	9627.8	34.9			G4/12000
FVH (80°-90°)	292.3	1.1			G3/500
BL (0°-30°)	1107.3	4.0	B3/2500		
BM (30°-60°)	1269.0	4.6	B2/2500		
BH (60°-80°)	1052.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.5	0.1			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4
2.5°	6459.4	6479.4	6451.9	6519.3	6531.7	6606.6	6649.0	6678.9	6676.5	6713.9	6713.9
5°	6080.2	6100.1	6085.2	6157.5	6214.9	6332.1	6429.5	6541.7	6546.7	6661.5	6703.9
7.5°	5758.3	5760.8	5760.8	5850.6	5925.5	6070.2	6214.9	6387.0	6407.0	6584.1	6696.4
10°	5493.9	5501.3	5503.8	5606.1	5688.5	5863.1	6047.7	6254.8	6277.3	6516.8	6691.4
12.5°	5311.7	5314.2	5324.2	5431.5	5521.3	5703.4	5890.5	6127.6	6157.5	6439.4	6669.0
15°	5224.4	5219.4	5224.4	5314.2	5404.0	5578.7	5770.8	6025.3	6057.7	6374.6	6671.5
17.5°	5219.4	5211.9	5206.9	5274.3	5331.7	5486.4	5681.0	5957.9	5992.8	6344.6	6698.9
20°	5291.8	5286.8	5261.8	5291.8	5304.2	5431.5	5623.6	5905.5	5940.4	6339.6	6758.8
22.5°	5481.4	5468.9	5431.5	5404.0	5336.7	5411.5	5583.7	5868.1	5908.0	6352.1	6836.1
25°	5763.3	5758.3	5710.9	5643.5	5471.4	5441.5	5586.2	5868.1	5905.5	6367.1	6918.5
27.5°	6187.4	6157.5	6097.6	5980.4	5733.4	5558.7	5636.1	5883.1	5920.5	6387.0	6985.8
30°	6619.1	6616.6	6596.6	6476.9	6110.1	5783.3	5740.8	5923.0	5957.9	6404.5	7048.2
32.5°	7065.7	7073.1	7123.0	7030.7	6629.0	6117.6	5930.5	6005.3	6030.3	6439.4	7103.1
35°	7489.8	7504.8	7637.0	7669.4	7260.3	6624.1	6239.8	6170.0	6172.5	6516.8	7175.4
37.5°	7896.5	7946.4	8158.4	8315.6	8046.2	7237.8	6686.4	6449.4	6429.5	6671.5	7285.2
40°	8358.0	8452.8	8719.8	8986.8	8901.9	8048.7	7295.2	6878.5	6836.1	6955.9	7482.3
42.5°	8869.5	8971.8	9326.1	9700.3	9740.2	9029.2	8056.2	7504.8	7432.4	7434.9	7851.6
45°	9418.4	9555.6	9967.3	10506.2	10748.2	10122.0	8994.2	8350.6	8278.2	8170.9	8445.4
47.5°	10139.4	10259.2	10655.9	11277.1	11741.2	11294.6	10224.3	9438.3	9306.1	9148.9	9368.5
50°	10760.7	10865.4	11207.3	11985.7	12951.2	12806.5	11618.9	10798.1	10670.8	10403.9	10586.0
52.5°	10897.9	10980.2	11294.6	12170.3	13876.8	14715.1	13328.0	12442.2	12352.4	11858.4	11928.3
55°	10281.6	10406.4	10688.3	11661.3	14118.8	16581.3	15545.9	14296.0	14108.9	13320.5	13445.2
57.5°	8724.8	8946.8	9211.3	10476.2	13462.7	17574.3	18644.7	16259.5	16089.8	14727.6	14730.1
60°	6394.5	6574.2	6751.3	7908.9	11905.8	17507.0	21456.5	18465.0	18155.7	15877.8	15835.4
62.5°	4650.6	4742.9	4740.4	5152.0	8175.9	16354.3	22933.5	21788.3	21067.2	17107.8	16865.8
65°	3657.6	3655.1	3762.4	3897.1	4565.7	12624.4	23115.6	26640.9	25862.5	18756.9	18253.0
67.5°	2846.7	2901.6	3008.9	3405.6	3430.5	6606.6	21513.8	29642.3	29627.4	21274.3	19877.2
70°	2195.5	2270.4	2422.6	3001.4	3168.6	3697.5	16097.3	28691.8	28933.8	22399.5	18727.0
72.5°	1409.6	1404.6	1629.2	2425.1	3043.8	3081.2	8901.9	22791.2	23065.7	20288.8	15141.8
75°	788.4	793.4	920.6	1484.5	2836.7	2899.1	4408.6	16252.0	16469.1	15817.9	11633.9
77.5°	309.4	319.4	431.6	780.9	1871.2	2589.7	2619.7	11082.5	11114.9	9802.6	7135.5
80°	124.7	132.2	219.6	484.0	1140.2	1744.0	1871.2	6529.2	6397.0	3794.8	2075.8
82.5°	37.4	39.9	87.3	274.4	596.3	1240.0	1262.4	2504.9	2365.2	815.8	528.9
85°	2.5	2.5	20.0	84.8	212.1	311.9	840.8	815.8	723.5	204.6	234.5
87.5°	0.0	0.0	2.5	2.5	5.0	10.0	89.8	149.7	152.2	37.4	104.8
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°	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4	6691.4
2.5°	6713.9	6624.1	6616.6	6546.7	6476.9	6389.5	6287.2	6212.4	6160.0	6067.7	6050.2
5°	6703.9	6584.1	6471.9	6272.3	6050.2	5810.7	5601.1	5406.5	5284.3	5201.9	5167.0
7.5°	6683.9	6531.7	6272.3	5895.5	5523.8	5104.6	4777.8	4478.4	4273.8	4154.1	4101.7
10°	6669.0	6464.4	6042.7	5471.4	4895.1	4316.2	3819.7	3375.6	3128.7	2934.0	2901.6
12.5°	6639.0	6367.1	5748.3	4974.9	4231.4	3463.0	2829.3	2285.4	1908.6	1739.0	1679.1
15°	6609.1	6264.8	5453.9	4451.0	3507.9	2559.8	1791.4	1267.4	1008.0	928.1	923.1
17.5°	6604.1	6172.5	5134.6	3954.5	2749.4	1676.6	1020.4	820.8	765.9	746.0	746.0
20°	6619.1	6095.1	4820.2	3383.1	2003.4	1020.4	761.0	711.1	678.6	661.2	661.2
22.5°	6634.0	6015.3	4518.3	2806.8	1329.8	746.0	671.1	628.7	591.3	571.3	561.4
25°	6644.0	5928.0	4184.0	2228.0	868.2	648.7	588.8	533.9	489.0	464.1	464.1
27.5°	6641.5	5823.2	3847.2	1661.6	673.6	576.3	504.0	446.6	401.7	374.2	376.7
30°	6621.6	5708.4	3497.9	1160.1	588.8	504.0	431.6	371.7	326.8	304.4	301.9
32.5°	6606.6	5586.2	3093.7	815.8	528.9	441.6	366.8	309.4	271.9	254.5	252.0
35°	6589.1	5466.4	2709.5	621.2	476.5	381.7	309.4	262.0	232.0	217.1	217.1
37.5°	6594.1	5341.7	2292.8	533.9	424.1	331.8	264.5	224.5	199.6	184.6	182.1
40°	6671.5	5266.8	1883.7	484.0	376.7	286.9	229.5	194.6	169.7	154.7	152.2
42.5°	6863.6	5269.3	1492.0	446.6	334.3	244.5	199.6	167.2	144.7	127.2	124.7
45°	7247.8	5374.1	1145.2	406.7	289.4	212.1	172.2	142.2	119.8	104.8	102.3
47.5°	7876.5	5686.0	868.2	371.7	252.0	184.6	147.2	119.8	99.8	87.3	84.8
50°	8877.0	6249.8	683.6	329.3	212.1	159.7	124.7	99.8	82.3	69.9	67.4
52.5°	10079.5	7095.6	586.3	291.9	182.1	139.7	107.3	82.3	67.4	57.4	54.9
55°	11461.7	8106.0	541.4	254.5	154.7	119.8	87.3	67.4	54.9	47.4	42.4
57.5°	12729.2	9016.7	538.9	217.1	132.2	102.3	72.4	57.4	47.4	37.4	34.9
60°	13964.2	9777.7	506.5	179.6	114.8	84.8	62.4	47.4	39.9	32.4	29.9
62.5°	15084.4	10396.4	424.1	144.7	97.3	69.9	52.4	42.4	34.9	27.4	27.4
65°	16491.5	11184.8	324.3	117.3	79.8	57.4	44.9	37.4	32.4	24.9	24.9
67.5°	17946.1	11601.5	232.0	97.3	64.9	49.9	39.9	34.9	27.4	22.5	22.5
70°	16254.5	9802.6	167.2	79.8	54.9	42.4	34.9	32.4	27.4	22.5	20.0
72.5°	12694.2	7068.2	124.7	62.4	47.4	39.9	32.4	29.9	24.9	20.0	20.0
75°	9413.4	4121.6	94.8	49.9	37.4	32.4	32.4	29.9	24.9	20.0	17.5
77.5°	5117.1	1437.1	72.4	39.9	29.9	24.9	27.4	27.4	22.5	17.5	15.0
80°	1354.8	394.2	49.9	29.9	24.9	20.0	20.0	24.9	20.0	15.0	15.0
82.5°	394.2	114.8	34.9	24.9	20.0	17.5	17.5	17.5	15.0	12.5	10.0
85°	192.1	42.4	24.9	20.0	17.5	15.0	12.5	12.5	10.0	7.5	7.5
87.5°	84.8	17.5	20.0	17.5	17.5	12.5	10.0	7.5	7.5	5.0	2.5
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)