

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: P638805

Luminaire Tested: GWS-SA4F-750-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 28188.7 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

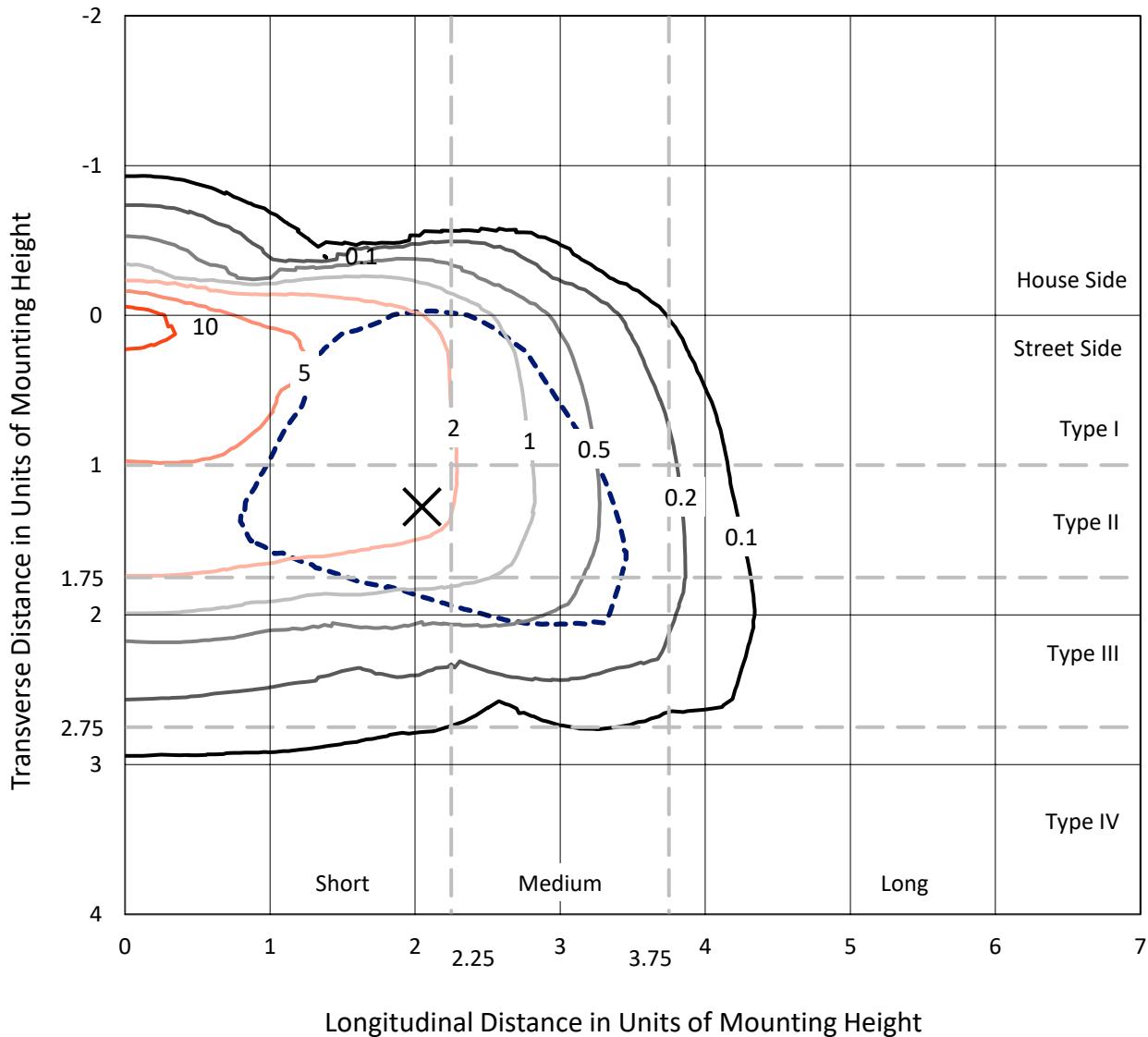
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

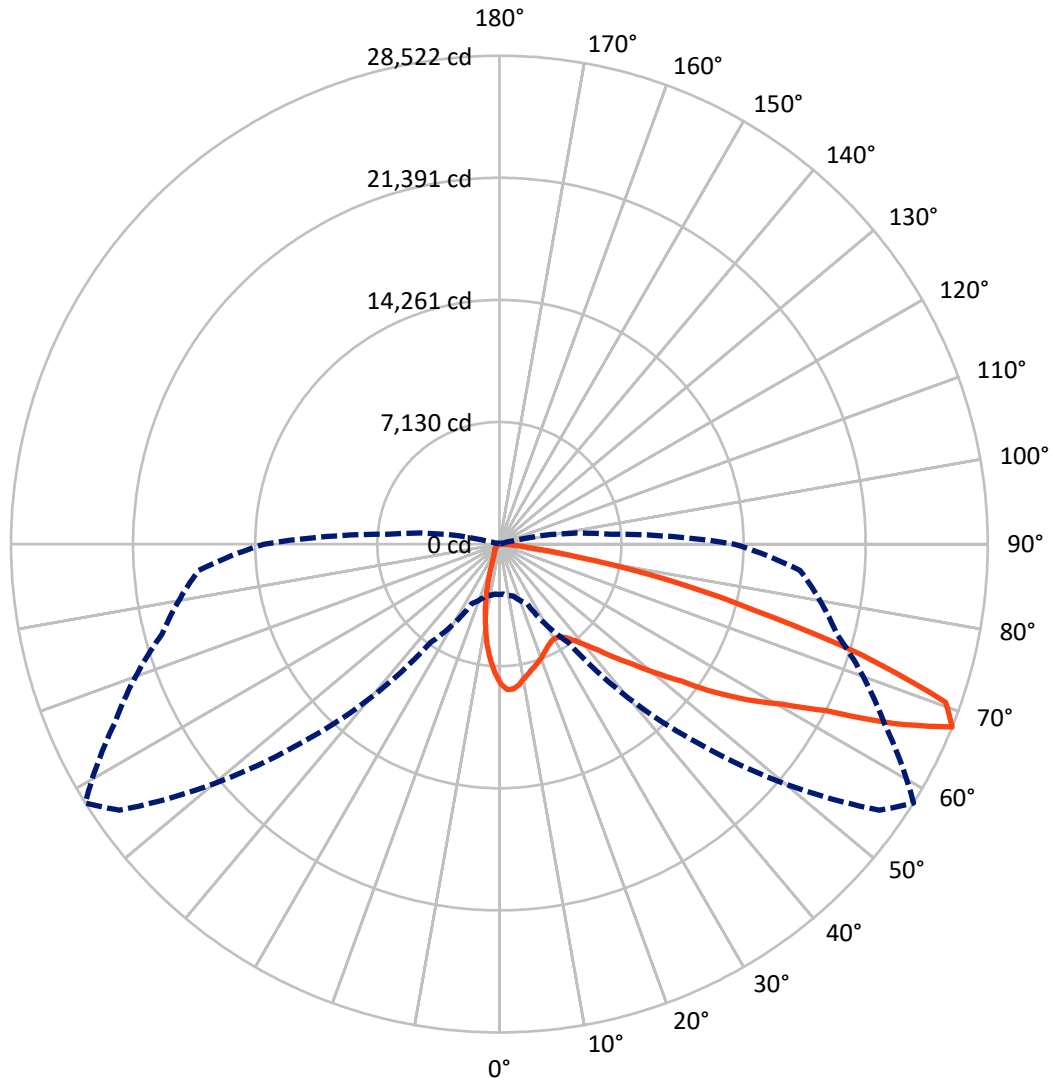
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2753.9	0.0	2753.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25434.9	0.0	25434.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	28188.7	0.0	28188.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.7	2.3
10°-20°	1375.4	4.9
20°-30°	1854.8	6.6
30°-40°	2606.4	9.2
40°-50°	4025.3	14.3
50°-60°	6437.0	22.8
60°-70°	7621.8	27.0
70°-80°	3371.7	12.0
80°-90°	235.7	0.8
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°	28188.7	100.0
0°-180°	28188.7	100.0

Coefficient of Utilization

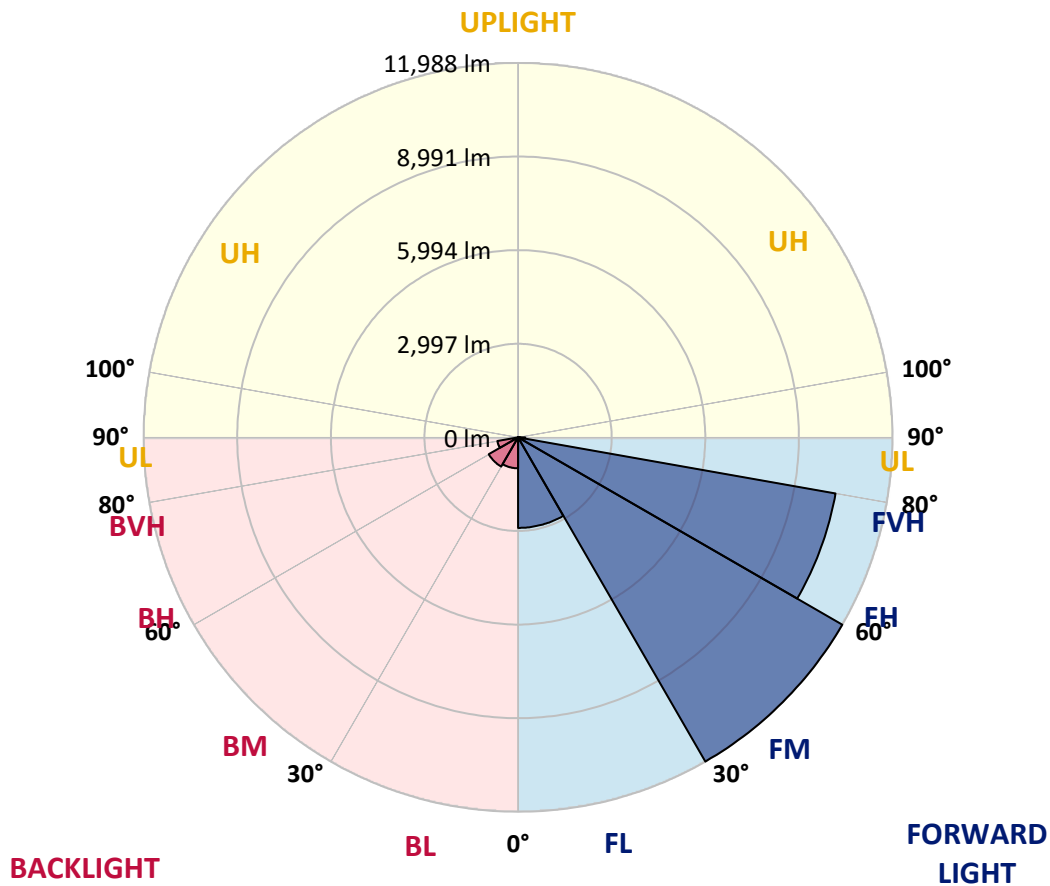


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.9	10.3			
FM (30°-60°)	11988.1	42.5			
FH (60°-80°)	10321.2	36.6			G4/12000
FVH (80°-90°)	225.7	0.8			G3/500
BL (0°-30°)	991.0	3.5	B2/1000		
BM (30°-60°)	1080.5	3.8	B2/2500		
BH (60°-80°)	672.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9
2.5°	8552.6	8567.6	8587.5	8612.5	8607.5	8585.0	8557.6	8495.2	8455.3	8330.5	8178.3
5°	8278.1	8275.6	8325.5	8373.0	8457.8	8502.7	8565.1	8507.7	8487.7	8338.0	8091.0
7.5°	7741.7	7769.2	7826.6	7901.4	8023.7	8155.9	8305.6	8288.1	8348.0	8248.2	7941.3
10°	7215.3	7200.3	7290.2	7402.4	7589.5	7759.2	7976.3	7973.8	8130.9	8121.0	7771.7
12.5°	6753.7	6751.3	6821.1	6948.4	7167.9	7404.9	7699.3	7706.8	7901.4	7981.2	7627.0
15°	6364.5	6369.5	6436.9	6569.1	6796.2	7085.6	7427.4	7489.7	7709.3	7871.5	7484.8
17.5°	6087.6	6090.1	6130.0	6244.8	6466.8	6776.2	7187.9	7272.7	7554.6	7789.1	7370.0
20°	5960.4	5950.4	5957.9	6015.3	6187.4	6469.3	6943.4	7053.1	7412.4	7731.8	7265.2
22.5°	5977.8	5962.9	5927.9	5920.4	5997.8	6212.4	6683.9	6818.6	7257.7	7696.8	7170.4
25°	6132.5	6100.1	6050.2	5975.3	5945.4	6052.7	6456.9	6596.6	7113.0	7699.3	7098.0
27.5°	6369.5	6334.6	6272.2	6172.4	6055.2	6010.3	6302.2	6434.4	7010.7	7756.7	7063.1
30°	6671.4	6644.0	6584.1	6464.3	6307.2	6122.5	6269.7	6379.5	6960.8	7874.0	7078.1
32.5°	7028.2	7008.2	6958.3	6848.6	6668.9	6387.0	6379.5	6464.3	7000.7	8043.6	7135.5
35°	7372.5	7380.0	7382.5	7322.6	7130.5	6788.7	6681.4	6711.3	7165.4	8298.1	7265.2
37.5°	7744.2	7726.8	7816.6	7859.0	7674.4	7310.1	7147.9	7150.4	7479.8	8674.8	7509.7
40°	8026.2	8031.1	8225.8	8400.4	8323.1	7971.3	7739.2	7736.7	7963.8	9191.3	7903.9
42.5°	8290.6	8323.1	8610.0	8909.4	9016.6	8704.8	8537.6	8475.2	8642.4	9889.9	8495.2
45°	8572.5	8619.9	9021.6	9448.3	9730.2	9545.6	9413.3	9438.3	9458.2	10703.2	9291.1
47.5°	8901.9	8931.8	9428.3	10029.6	10556.0	10508.6	10516.1	10486.1	10476.2	11728.6	10343.9
50°	9301.1	9370.9	9942.3	10660.8	11379.3	11693.7	11798.5	11811.0	11648.8	12846.3	11434.2
52.5°	10149.3	10234.2	10723.2	11351.9	12277.5	12938.7	13365.3	13280.5	13031.0	13929.1	12629.3
55°	11149.8	11214.7	11686.2	12337.4	13375.3	14303.4	15316.3	15281.4	14670.1	15069.3	13612.3
57.5°	11244.6	11317.0	12048.0	13045.9	14784.9	15989.9	17055.3	17167.5	16271.9	15877.7	14490.5
60°	10179.3	10326.5	11324.4	12666.7	15323.8	18257.8	18961.4	18983.8	17447.0	16698.5	15563.3
62.5°	8158.4	8228.2	9233.7	10985.1	14493.0	19580.1	21873.0	21398.9	18956.4	17968.4	17262.4
65°	4276.3	4560.7	5436.4	7375.0	11753.6	19118.6	25375.8	25246.1	21670.9	19787.2	18584.7
67.5°	2934.0	2931.5	3138.6	3844.7	7008.2	16461.5	27094.8	28521.9	24809.5	20410.9	17626.6
70°	2233.0	2240.4	2425.1	2884.1	3630.1	10957.7	25208.7	27648.7	25393.3	18532.3	14256.0
72.5°	1482.0	1497.0	1803.8	2330.3	2899.1	5371.6	19590.1	22122.5	21366.5	14884.7	10034.6
75°	885.7	898.2	1117.7	1694.1	2577.3	3006.4	12447.2	15293.9	14707.6	10259.1	5379.0
77.5°	364.3	374.2	573.8	1055.4	1886.2	2335.2	6883.5	10007.1	8809.6	4079.2	1469.5
80°	152.2	157.2	276.9	738.5	1359.7	1464.5	3188.5	4702.9	3610.1	878.2	449.1
82.5°	54.9	57.4	102.3	406.7	845.8	1102.8	1609.2	1858.7	1017.9	286.9	242.0
85°	2.5	2.5	24.9	137.2	321.8	311.9	920.6	890.7	336.8	119.8	144.7
87.5°	0.0	0.0	2.5	2.5	5.0	12.5	87.3	154.7	72.4	29.9	62.4
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°	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9	8130.9
2.5°	8078.6	7946.3	7801.6	7666.9	7452.3	7325.1	7167.9	7098.0	6998.3	6973.3	6988.3
5°	7913.9	7686.8	7340.1	7025.7	6619.0	6292.2	5962.9	5823.1	5643.5	5523.8	5473.9
7.5°	7681.9	7385.0	6843.6	6272.2	5713.4	5117.1	4663.0	4363.6	4091.7	3942.0	3912.0
10°	7447.3	7060.6	6284.7	5466.4	4600.6	3887.1	3273.3	2819.3	2450.0	2282.9	2153.1
12.5°	7205.3	6723.8	5715.9	4648.0	3642.6	2669.6	1911.1	1469.5	1205.0	1100.3	1117.7
15°	6983.3	6399.5	5152.0	3829.7	2564.8	1611.7	1055.4	890.7	828.3	808.4	805.9
17.5°	6771.2	6092.6	4590.7	3033.8	1691.6	988.0	808.4	768.4	751.0	741.0	741.0
20°	6579.1	5798.2	4041.8	2285.3	1092.8	783.4	731.0	711.1	696.1	688.6	688.6
22.5°	6399.5	5513.8	3505.4	1616.7	805.9	703.6	671.1	651.2	633.7	623.7	623.7
25°	6237.3	5256.8	2993.9	1112.7	693.6	643.7	608.8	586.3	556.4	538.9	538.9
27.5°	6120.0	5027.3	2502.4	810.8	626.2	578.8	538.9	509.0	476.5	456.6	451.6
30°	6050.2	4832.7	2005.9	666.1	563.9	516.4	471.5	434.1	396.7	376.7	374.2
32.5°	6010.3	4653.0	1551.8	581.3	511.5	456.6	406.7	366.8	329.3	306.9	304.4
35°	6025.2	4513.3	1162.6	523.9	461.6	404.2	349.3	309.4	276.9	257.0	252.0
37.5°	6155.0	4450.9	873.2	479.0	419.1	359.3	301.9	264.5	234.5	219.6	217.1
40°	6407.0	4463.4	686.1	444.1	384.2	314.4	259.5	224.5	202.1	189.6	187.1
42.5°	6798.7	4568.2	566.3	414.2	346.8	274.4	224.5	197.1	174.6	162.2	159.7
45°	7382.5	4785.3	494.0	379.2	306.9	237.0	194.6	169.7	149.7	134.7	132.2
47.5°	8228.2	5162.0	446.6	346.8	271.9	204.6	167.2	142.2	124.7	112.3	109.8
50°	9128.9	5613.6	406.7	314.4	242.0	177.1	142.2	117.3	102.3	89.8	87.3
52.5°	10089.5	6100.1	376.7	284.4	214.6	152.2	119.8	97.3	82.3	69.9	67.4
55°	11012.6	6589.1	341.8	264.5	182.1	129.7	99.8	79.8	64.9	54.9	54.9
57.5°	11910.7	7038.2	304.4	232.0	149.7	109.8	82.3	64.9	52.4	44.9	42.4
60°	12983.6	7659.4	262.0	197.1	124.7	92.3	67.4	52.4	42.4	34.9	34.9
62.5°	14577.8	8305.6	224.5	164.7	104.8	77.3	54.9	42.4	34.9	29.9	27.4
65°	15099.3	7956.3	189.6	134.7	84.8	62.4	44.9	37.4	29.9	27.4	24.9
67.5°	13707.1	6521.7	157.2	109.8	69.9	52.4	39.9	32.4	27.4	24.9	22.5
70°	10695.7	4628.1	122.3	82.3	57.4	42.4	34.9	29.9	24.9	22.5	22.5
72.5°	7275.2	2736.9	97.3	62.4	47.4	37.4	29.9	27.4	24.9	22.5	20.0
75°	3582.7	973.0	74.8	47.4	37.4	32.4	27.4	24.9	22.5	20.0	20.0
77.5°	965.5	269.5	57.4	37.4	29.9	24.9	24.9	24.9	22.5	17.5	17.5
80°	326.8	112.3	42.4	27.4	24.9	20.0	17.5	22.5	20.0	17.5	15.0
82.5°	179.6	54.9	29.9	22.5	17.5	15.0	15.0	15.0	15.0	12.5	12.5
85°	114.8	29.9	20.0	17.5	17.5	12.5	10.0	10.0	7.5	7.5	7.5
87.5°	52.4	17.5	17.5	15.0	15.0	12.5	7.5	5.0	2.5	2.5	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)