

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: P643689

Luminaire Tested: GWS-SA6F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41737 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

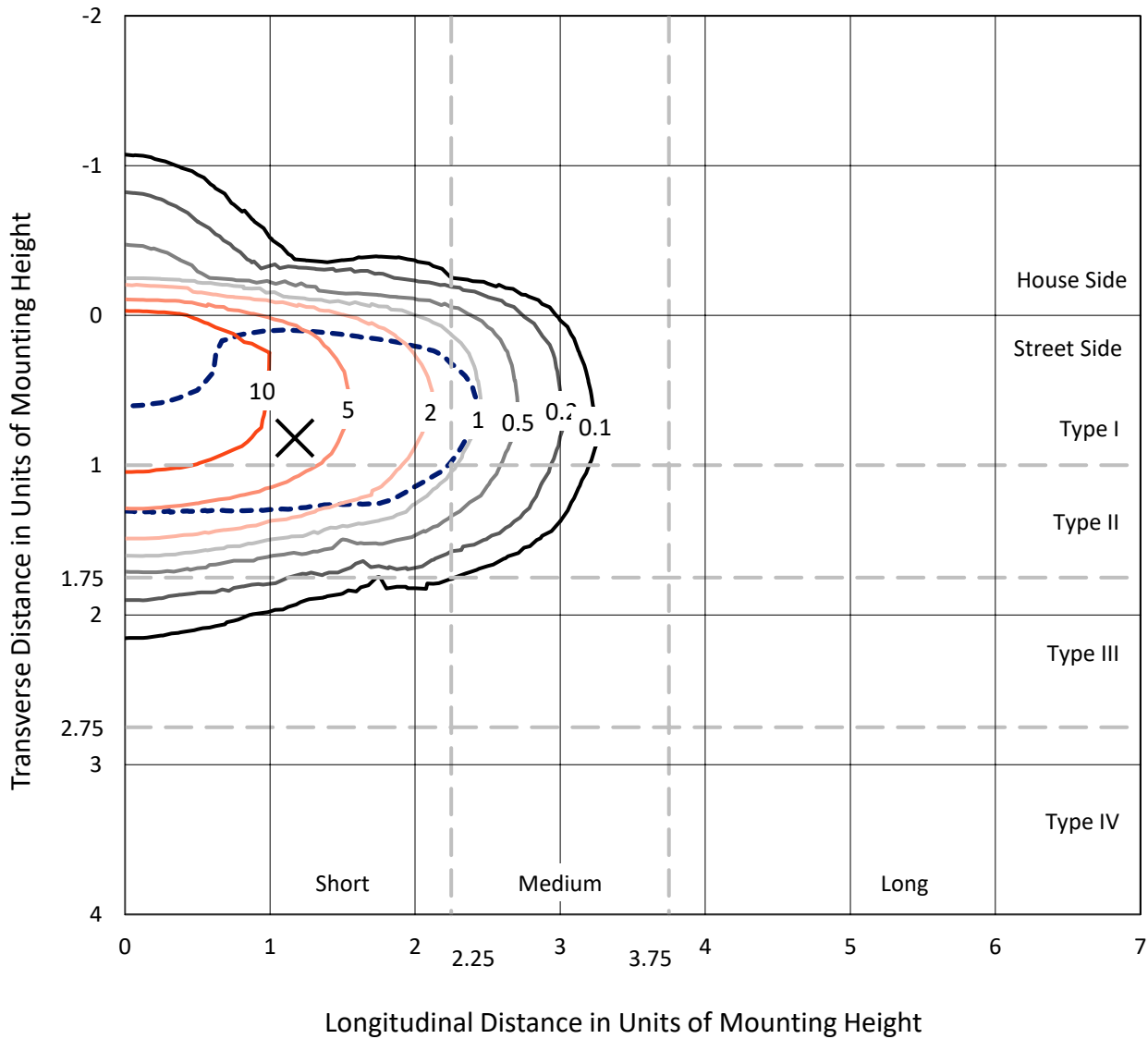
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

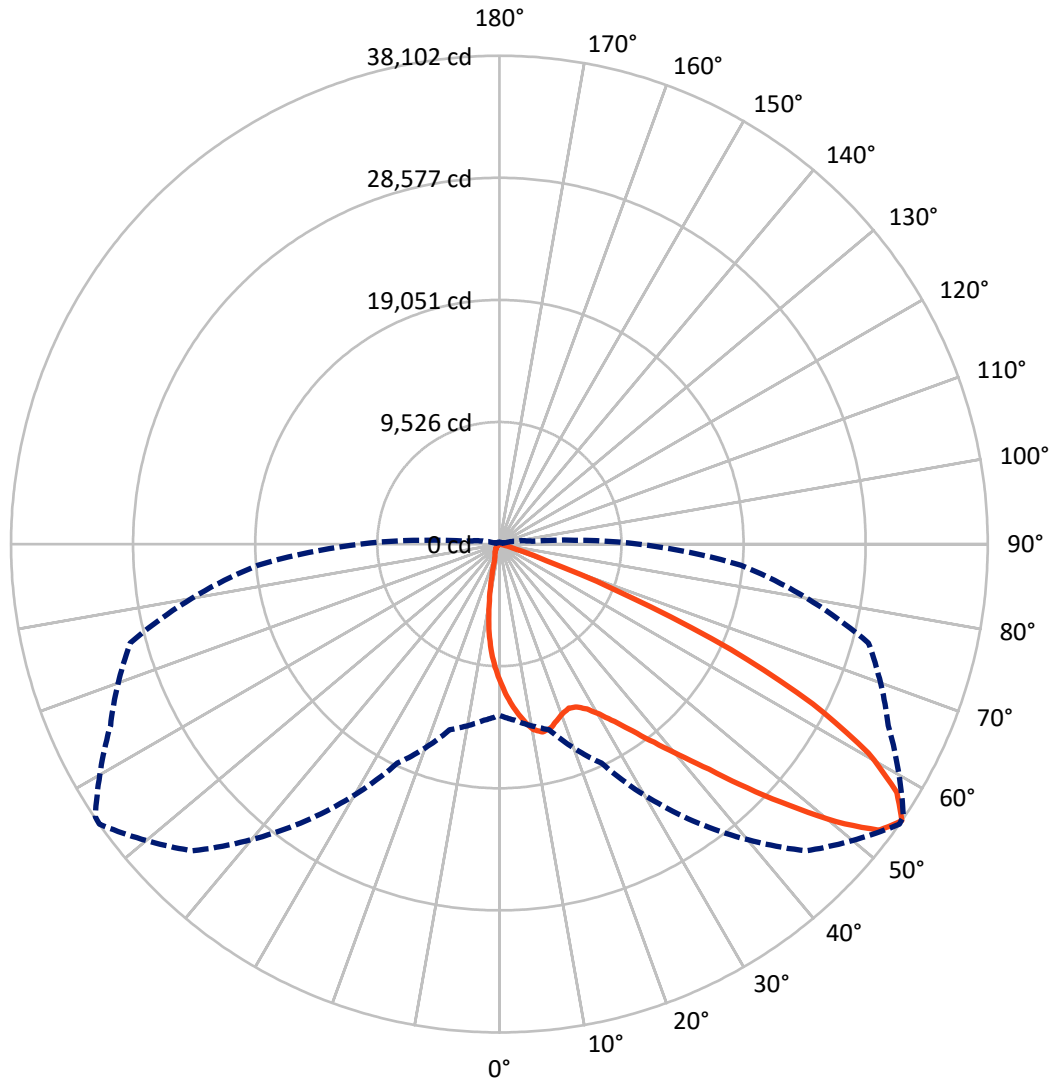
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2575.4	0.0	2575.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	39161.6	0.0	39161.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	41737.0	0.0	41737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.9	2.3
10°-20°	2297.4	5.5
20°-30°	3826.0	9.2
30°-40°	6519.7	15.6
40°-50°	10642.4	25.5
50°-60°	11142.1	26.7
60°-70°	5619.8	13.5
70°-80°	709.9	1.7
80°-90°	27.0	0.1
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°	41737.0	100.0
0°-180°	41737.0	100.0

Coefficient of Utilization



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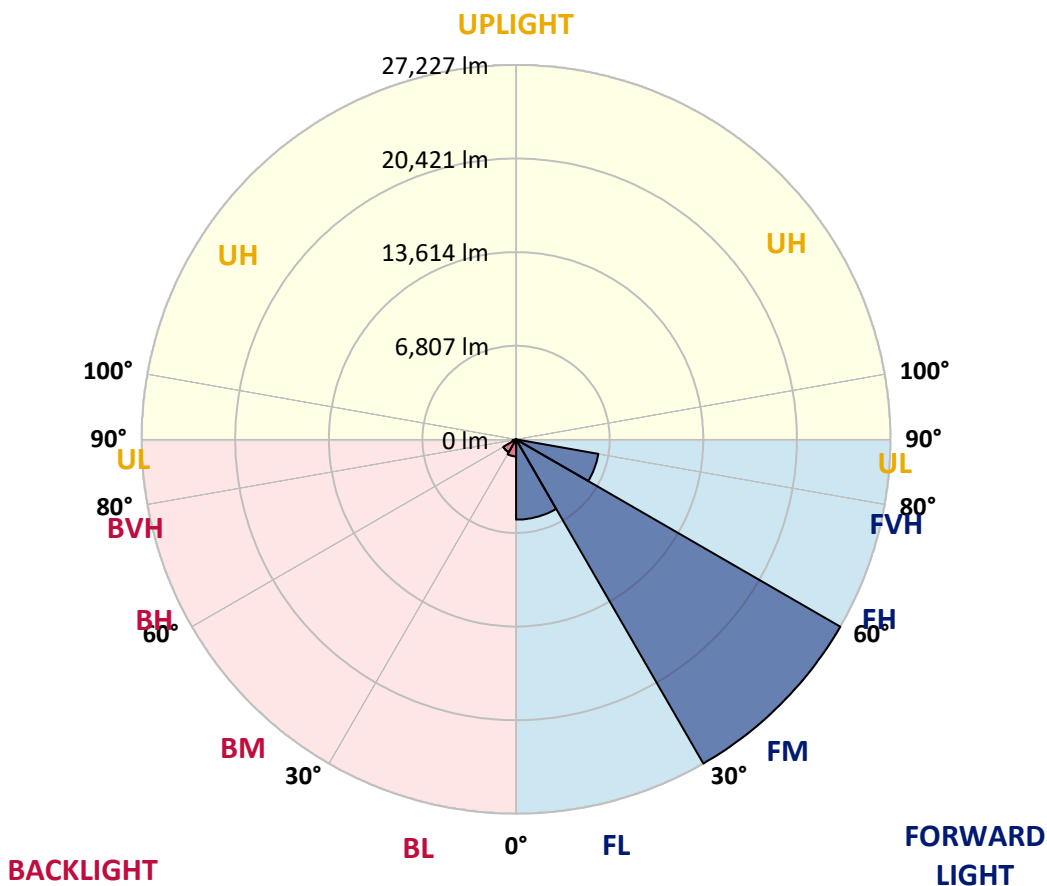
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5838.4	14.0			
FM (30°-60°)	27227.4	65.2			
FH (60°-80°)	6071.3	14.5			G3/7500
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	1237.8	3.0	B3/2500		
BM (30°-60°)	1076.8	2.6	B2/2500		
BH (60°-80°)	258.3	0.6	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4
2.5°	12569.9	12509.3	12602.1	12495.0	12313.1	12159.6	11959.8	11888.5	11567.3	11264.1	10971.5
5°	14097.0	14114.9	14086.3	13936.5	13679.6	13394.1	12991.0	12901.8	12341.6	11763.6	11139.2
7.5°	14475.2	14464.5	14525.2	14582.3	14539.5	14396.7	13957.9	13868.7	13172.9	12305.9	11396.1
10°	13308.5	13315.7	13440.5	13825.9	14304.0	14799.9	14732.1	14682.2	14000.7	12919.6	11681.5
12.5°	11660.1	11724.3	11856.4	12405.8	13215.7	14343.2	15042.5	15092.5	14760.7	13594.0	12016.9
15°	10946.5	10960.8	11067.8	11399.7	12002.6	13394.1	14910.5	15049.7	15395.8	14271.9	12380.8
17.5°	10928.7	10946.5	10992.9	11139.2	11531.7	12648.4	14485.9	14728.6	15873.9	14999.7	12816.1
20°	11599.5	11588.8	11556.6	11478.1	11649.4	12402.3	14093.5	14361.1	16134.3	15709.8	13255.0
22.5°	12816.1	12801.9	12659.1	12334.5	12195.3	12627.0	13900.8	14143.4	16291.3	16341.3	13615.4
25°	14218.3	14318.3	14050.7	13558.3	13215.7	13201.5	14072.1	14243.3	16426.9	16901.5	13861.6
27.5°	15756.1	15788.3	15559.9	15006.9	14510.9	14122.0	14568.0	14696.5	16576.8	17401.0	14000.7
30°	17443.8	17433.1	17172.6	16530.4	15927.4	15367.2	15402.9	15452.9	16926.4	17971.8	14154.1
32.5°	19552.5	19598.8	19135.0	18260.9	17536.6	16762.3	16494.7	16501.8	17558.0	18706.9	14386.0
35°	22417.5	22303.4	21689.7	20444.5	19209.9	18375.0	17918.3	17879.1	18532.0	19695.2	14789.2
37.5°	25147.0	25157.7	24515.5	23145.4	21586.2	20269.6	19623.8	19516.8	19902.1	21065.3	15460.0
40°	27041.6	27077.3	26809.7	26092.5	24440.6	22578.1	21629.0	21518.4	21679.0	22799.3	16337.7
42.5°	28044.2	28144.1	28219.1	28386.7	27134.4	25461.0	24001.7	23991.0	23823.3	24776.0	17354.6
45°	28083.5	28233.3	28690.0	29835.3	29978.1	28750.7	27162.9	26923.9	26278.1	26891.8	18264.4
47.5°	26531.4	26877.5	27848.0	30117.2	31615.8	32022.5	30449.0	30302.7	28490.2	28565.1	18945.9
50°	22913.5	23273.8	25061.4	28672.2	32029.6	34620.0	34056.2	33753.0	30338.4	29671.2	19274.2
52.5°	19202.8	19531.1	20744.2	25232.7	30313.4	35437.0	37096.2	36735.8	31997.5	30056.6	19138.6
55°	13362.0	13800.9	14985.5	18860.3	26360.1	33845.7	38102.3	38027.4	33478.2	29813.9	18928.1
57.5°	6550.8	6986.1	8167.1	11628.0	19527.5	29549.9	36564.5	36960.6	34363.1	29553.5	18756.8
60°	2736.6	2915.0	3321.8	5102.2	10925.1	22331.9	33092.9	33642.4	33820.8	29200.2	18739.0
62.5°	1587.7	1616.3	1659.1	2115.8	4249.4	12801.9	27451.9	28233.3	30970.0	28732.8	18457.1
65°	1198.8	1209.5	1191.7	1298.7	1755.4	4856.0	19834.3	20897.6	25849.9	26906.0	17343.9
67.5°	984.8	984.8	938.4	959.8	1102.5	1819.7	10950.1	12434.4	19127.9	22114.3	14321.8
70°	785.0	802.8	781.4	752.8	788.5	1006.2	3896.2	4831.0	11139.2	13058.8	8352.6
72.5°	595.9	595.9	631.5	610.1	585.1	631.5	1359.4	1527.1	4470.7	5444.7	3014.9
75°	460.3	474.5	499.5	478.1	442.4	374.6	652.9	692.2	1348.7	1266.6	674.3
77.5°	235.5	239.1	317.5	349.7	328.3	228.3	285.4	314.0	438.9	392.5	249.8
80°	142.7	149.9	178.4	274.7	217.6	121.3	117.7	124.9	206.9	178.4	103.5
82.5°	60.7	64.2	99.9	99.9	89.2	46.4	46.4	46.4	99.9	92.8	42.8
85°	0.0	0.0	17.8	14.3	14.3	17.8	17.8	17.8	25.0	35.7	21.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.7	10.7
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°	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4	10782.4
2.5°	10782.4	10554.0	10247.2	9968.9	9594.3	9383.8	9091.2	8852.1	8648.8	8584.5	8556.0
5°	10786.0	10393.5	9737.0	9080.5	8274.1	7639.0	6986.1	6468.7	6044.1	5908.6	5872.9
7.5°	10857.3	10279.3	9216.1	8024.4	6675.7	5562.5	4567.0	3675.0	3261.1	3122.0	3093.4
10°	10953.7	10183.0	8613.1	6757.7	4820.3	3389.6	2401.2	1830.4	1559.2	1409.3	1430.8
12.5°	11078.5	10104.5	7945.9	5387.6	3189.8	1862.5	1320.1	1106.1	1049.0	1020.4	1006.2
15°	11246.2	10011.7	7118.1	4028.2	1955.2	1198.8	1016.9	959.8	938.4	924.1	920.5
17.5°	11417.5	9904.7	6276.1	2833.0	1298.7	995.5	913.4	884.9	870.6	859.9	856.3
20°	11599.5	9722.7	5287.7	1951.7	1024.0	895.6	842.0	809.9	792.1	774.2	770.7
22.5°	11678.0	9430.1	4342.2	1366.5	909.8	824.2	756.4	717.2	695.8	681.5	681.5
25°	11603.0	8955.6	3364.6	1038.3	827.8	745.7	677.9	635.1	617.3	603.0	603.0
27.5°	11403.2	8345.5	2454.8	859.9	738.6	663.6	599.4	560.2	545.9	538.8	538.8
30°	11182.0	7574.8	1730.5	738.6	638.7	578.0	524.5	499.5	495.9	488.8	488.8
32.5°	10992.9	6854.1	1191.7	649.4	563.7	503.1	467.4	456.7	460.3	453.1	456.7
35°	10889.4	6147.6	884.9	578.0	503.1	446.0	428.2	428.2	428.2	424.6	424.6
37.5°	10932.3	5451.9	720.7	528.1	449.6	406.7	388.9	396.0	403.2	403.2	403.2
40°	11146.3	4834.6	638.7	481.7	403.2	371.1	356.8	367.5	378.2	385.3	385.3
42.5°	11417.5	4335.1	578.0	442.4	371.1	335.4	328.3	339.0	349.7	356.8	356.8
45°	11588.8	3832.0	517.4	392.5	339.0	296.1	296.1	310.4	306.8	310.4	310.4
47.5°	11667.3	3432.4	456.7	339.0	289.0	256.9	260.5	267.6	260.5	267.6	267.6
50°	11474.6	3029.2	403.2	281.9	239.1	224.8	231.9	228.3	228.3	242.6	242.6
52.5°	11121.4	2729.5	356.8	239.1	203.4	199.8	206.9	192.7	196.2	196.2	192.7
55°	10860.9	2558.2	317.5	206.9	174.8	178.4	174.8	149.9	135.6	121.3	117.7
57.5°	10732.4	2490.4	289.0	185.5	157.0	157.0	142.7	103.5	78.5	60.7	53.5
60°	10703.9	2408.4	260.5	160.6	139.2	132.0	103.5	60.7	39.2	28.5	25.0
62.5°	10432.7	2208.6	235.5	128.4	121.3	107.0	64.2	35.7	21.4	14.3	10.7
65°	9544.3	1816.1	210.5	99.9	92.8	78.5	39.2	21.4	10.7	3.6	0.0
67.5°	7592.6	1288.0	185.5	74.9	64.2	50.0	25.0	14.3	3.6	0.0	0.0
70°	4377.9	695.8	153.4	53.5	42.8	32.1	17.8	7.1	0.0	0.0	0.0
72.5°	1462.9	324.7	117.7	35.7	32.1	25.0	10.7	3.6	0.0	0.0	0.0
75°	321.1	192.7	78.5	25.0	21.4	17.8	7.1	0.0	0.0	0.0	0.0
77.5°	121.3	135.6	39.2	17.8	14.3	10.7	3.6	0.0	0.0	0.0	0.0
80°	46.4	89.2	17.8	10.7	10.7	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	25.0	35.7	10.7	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	17.8	7.1	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	3.6	3.6	3.6	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)