

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: P643719

Luminaire Tested: GWS-SA6F-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40138.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

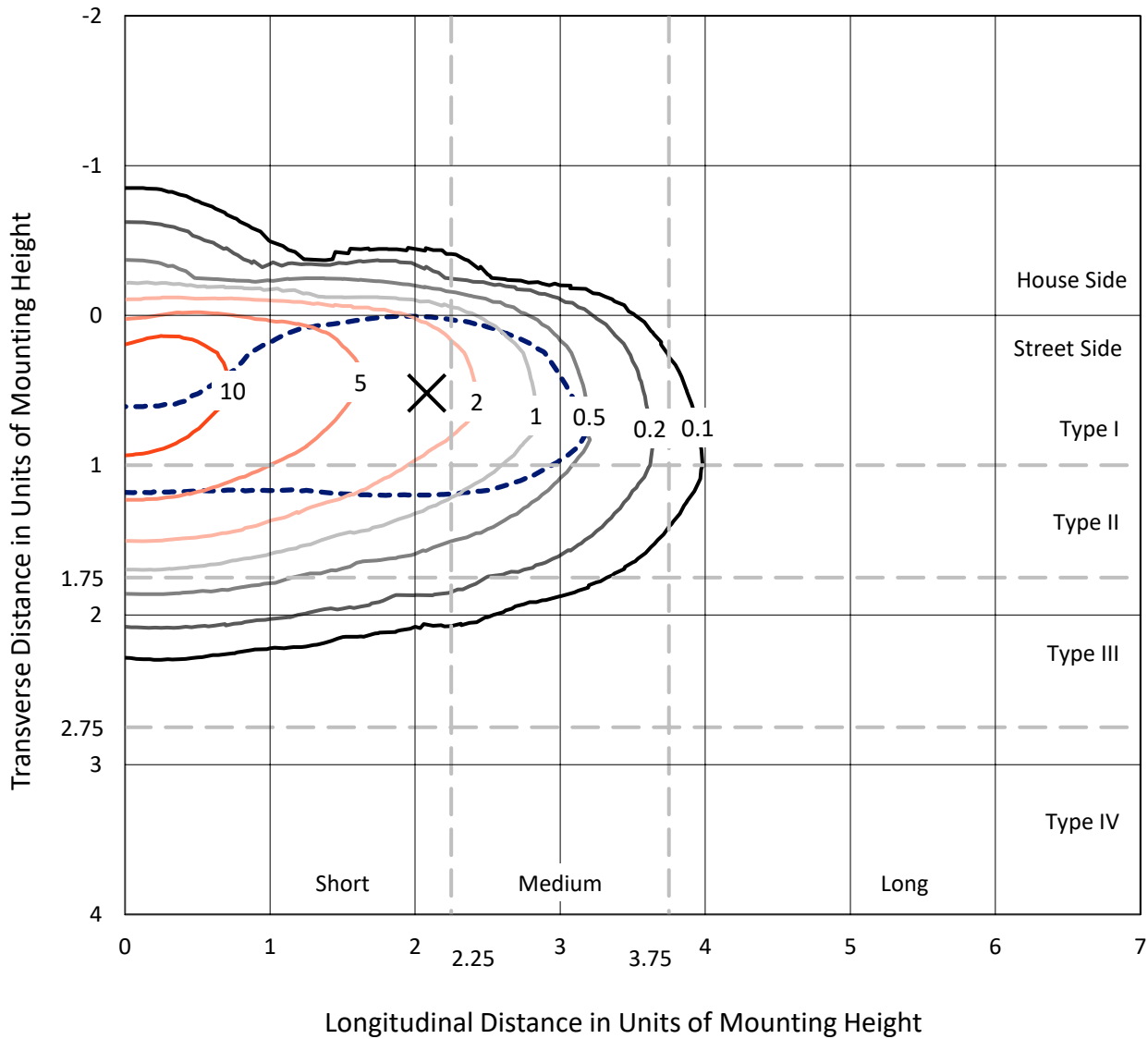
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

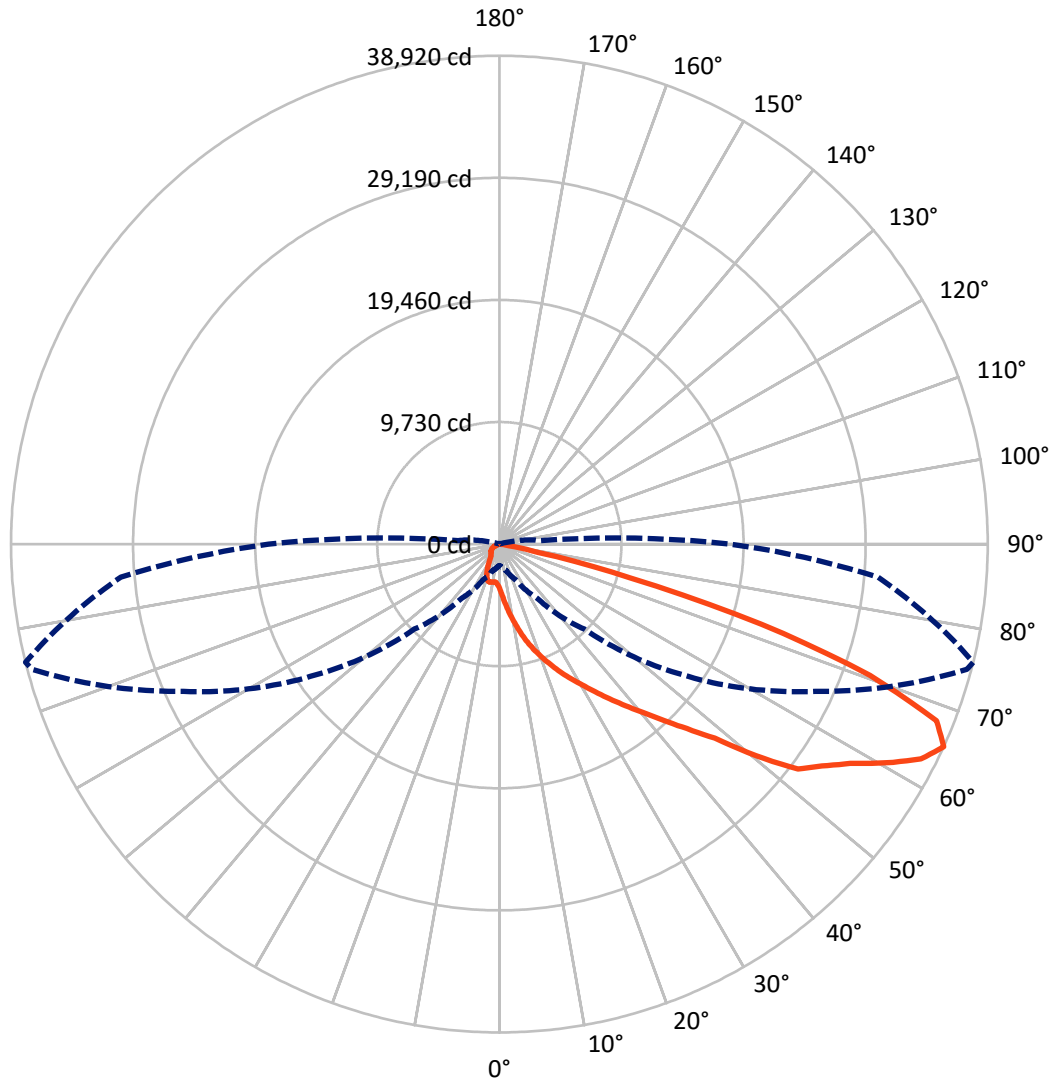
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.4	0.0	2219.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	37919.2	0.0	37919.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	40138.6	0.0	40138.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	1.1
10°-20°	1640.5	4.1
20°-30°	3346.8	8.3
30°-40°	5952.4	14.8
40°-50°	8799.0	21.9
50°-60°	10074.2	25.1
60°-70°	7686.2	19.1
70°-80°	2153.0	5.4
80°-90°	54.2	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°	40138.6	100.0
0°-180°	40138.6	100.0

Coefficient of Utilization



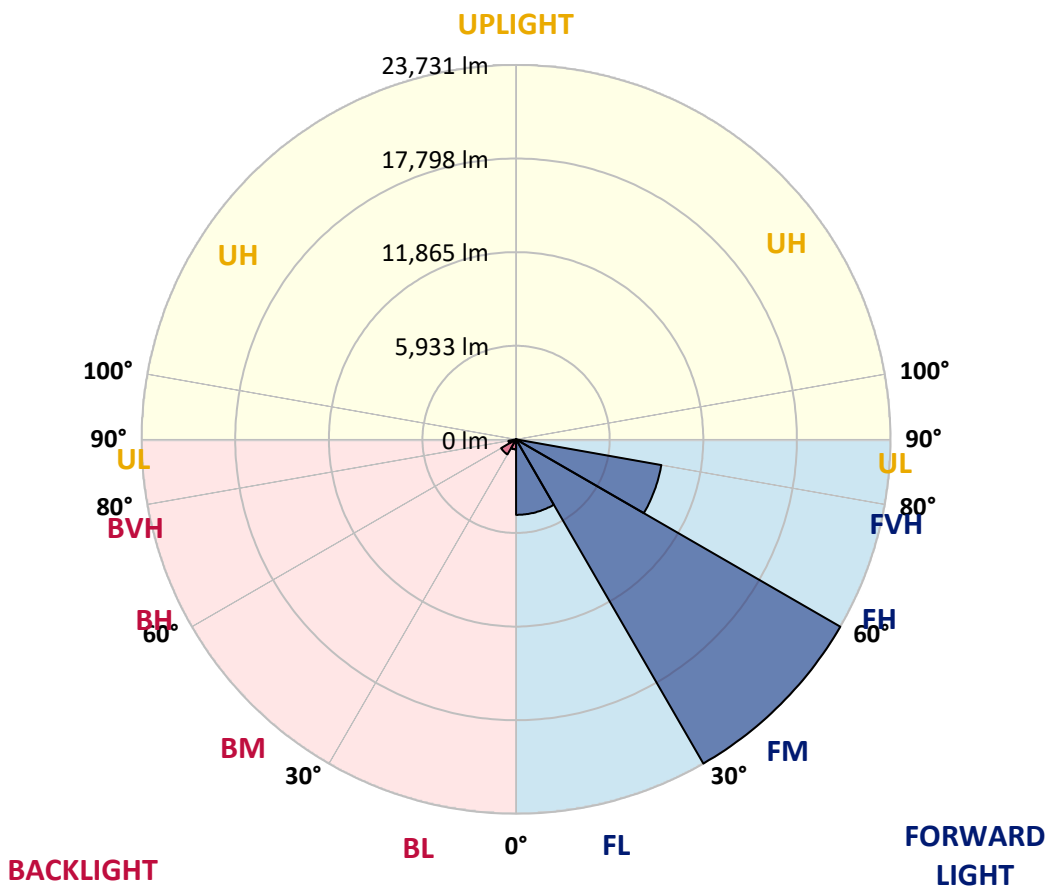
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4786.2	11.9			
FM (30°-60°)	23730.6	59.1			
FH (60°-80°)	9351.3	23.3			G4/12000
FVH (80°-90°)	51.0	0.1			G1/100
BL (0°-30°)	633.3	1.6	B2/1000		
BM (30°-60°)	1095.0	2.7	B2/2500		
BH (60°-80°)	487.9	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	5476.9	5558.9	5494.7	5387.7	5180.7	4980.9	4724.0	4370.8	4088.9	4053.3	3789.2
5°	7396.5	7389.3	7250.2	7111.0	6893.4	6550.9	6033.5	5377.0	4745.4	4691.9	4099.6
7.5°	8538.2	8548.9	8470.4	8363.4	8149.3	7796.1	7257.3	6465.2	5541.1	5434.1	4524.2
10°	9498.0	9494.5	9437.4	9387.4	9194.7	8959.3	8381.2	7510.6	6397.4	6229.7	4998.8
12.5°	10218.8	10243.7	10272.3	10322.2	10240.2	10008.2	9462.3	8513.3	7264.5	7078.9	5541.1
15°	10789.6	10796.8	10903.8	11096.5	11164.3	11043.0	10547.0	9483.7	8120.8	7960.2	6165.5
17.5°	10960.9	10975.2	11157.1	11510.4	11867.2	11935.0	11560.3	10461.4	8962.8	8791.6	6772.1
20°	11321.3	11353.4	11489.0	11799.4	12249.0	12612.9	12466.6	11449.7	9804.9	9580.1	7392.9
22.5°	12455.9	12473.7	12427.4	12466.6	12698.5	13119.5	13208.7	12405.9	10668.3	10429.3	8063.7
25°	14407.6	14414.7	14090.0	13783.2	13608.4	13686.9	13883.1	13287.2	11524.6	11289.2	8688.1
27.5°	16434.2	16459.2	16070.3	15549.4	14925.0	14568.2	14511.1	14093.6	12388.1	12127.6	9305.3
30°	18343.1	18343.1	17932.8	17297.7	16462.8	15767.0	15356.7	14907.1	13312.2	13026.8	9936.9
32.5°	20059.3	20045.0	19520.5	18831.9	18007.7	17244.2	16380.7	15756.3	14339.8	14022.2	10664.8
35°	21475.8	21440.1	20844.3	20184.2	19302.9	18735.6	17772.2	16669.7	15453.0	15135.5	11414.0
37.5°	22546.2	22507.0	21961.1	21261.7	20444.7	20077.1	19270.8	17765.1	16626.9	16337.9	12245.4
40°	23127.8	23049.3	22671.1	22150.2	21465.1	21144.0	20808.6	19124.5	18007.7	17647.3	13226.6
42.5°	23299.1	23206.3	22956.5	22713.9	22300.0	22046.7	22407.1	20658.7	19524.1	19213.7	14346.9
45°	22792.4	22738.9	22717.5	22892.3	22967.2	23038.6	23927.0	22357.1	21197.5	20962.0	15756.3
47.5°	21572.1	21557.9	21747.0	22474.8	23266.9	24019.8	25579.0	24451.5	23366.8	23113.5	17725.8
50°	19317.2	19463.5	19991.5	21268.9	22853.1	24576.4	27124.0	27355.9	26877.8	26506.7	20294.8
52.5°	15792.0	16073.8	17258.4	19199.4	21475.8	24419.4	27837.6	29682.2	30171.0	29785.7	22135.9
55°	12391.7	12655.7	13711.8	16173.8	19210.1	23224.1	27869.7	30485.0	31551.8	31195.0	23381.1
57.5°	9230.4	9473.0	10432.8	12787.7	16127.4	20872.8	27106.1	30931.0	33189.6	32961.2	25347.1
60°	6033.5	6272.5	7139.6	9198.3	12509.4	17447.5	25225.8	30838.2	35419.6	35398.1	27762.6
62.5°	3346.8	3535.9	4163.9	5769.5	8730.9	13512.0	22271.5	29907.0	37578.2	37713.8	29753.6
65°	1712.6	1834.0	2215.7	3172.0	5284.2	9580.1	18385.9	27773.3	38577.2	38919.8	30278.1
67.5°	1120.4	1159.6	1252.4	1648.4	2829.4	6026.4	13836.7	24351.6	37171.4	37571.1	28519.0
70°	909.8	942.0	995.5	1098.9	1459.3	3200.5	9087.7	19449.2	31059.5	31330.6	22710.3
72.5°	667.2	710.0	813.5	881.3	1052.6	1755.5	4727.6	12766.3	21329.5	21807.6	14272.0
75°	492.4	517.4	603.0	695.8	859.9	1109.6	1809.0	6711.4	11014.4	10736.1	5994.2
77.5°	296.1	314.0	385.3	446.0	613.7	692.2	631.5	2479.8	3350.4	3150.5	1448.6
80°	146.3	164.1	253.3	335.4	392.5	278.3	264.0	692.2	745.7	745.7	363.9
82.5°	50.0	64.2	135.6	221.2	192.7	107.0	124.9	178.4	199.8	210.5	107.0
85°	0.0	0.0	32.1	64.2	28.5	14.3	32.1	39.2	50.0	53.5	35.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.7	14.3	14.3
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°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	3646.5	3478.8	3225.5	2997.1	2822.3	2658.2	2533.3	2433.4	2415.5	2358.4	2365.6
5°	3810.6	3507.3	3039.9	2679.6	2426.2	2255.0	2112.3	2005.2	1958.8	1912.4	1876.8
7.5°	4064.0	3625.1	2968.6	2529.7	2233.6	1969.5	1748.3	1569.9	1484.3	1430.8	1395.1
10°	4374.4	3789.2	2972.1	2440.5	2001.6	1598.5	1295.2	1098.9	1006.2	977.6	974.1
12.5°	4745.4	3996.2	3000.7	2294.2	1666.3	1188.1	959.8	870.6	842.0	817.1	817.1
15°	5137.9	4228.1	3000.7	2026.6	1270.2	927.7	831.3	774.3	738.6	724.3	717.2
17.5°	5551.8	4445.7	2929.3	1659.1	974.1	817.1	738.6	685.1	656.5	635.1	628.0
20°	5994.2	4652.7	2750.9	1270.2	834.9	731.4	656.5	603.0	574.4	553.0	553.0
22.5°	6443.8	4845.3	2461.9	977.6	738.6	649.4	578.0	528.1	499.5	478.1	478.1
25°	6861.3	4973.8	2090.8	806.4	667.2	578.0	513.8	463.8	431.7	417.5	410.3
27.5°	7250.2	5055.9	1680.5	710.0	599.4	517.4	449.6	403.2	378.2	367.5	360.4
30°	7653.4	5077.3	1284.5	645.8	542.3	456.7	392.5	356.8	335.4	321.1	321.1
32.5°	8045.8	5052.3	981.2	592.3	492.4	403.2	349.7	317.6	299.7	289.0	285.4
35°	8445.5	4938.1	795.7	545.9	442.4	353.2	310.4	285.4	274.7	260.5	260.5
37.5°	8880.8	4784.7	692.2	499.5	392.5	317.6	278.3	260.5	246.2	235.5	231.9
40°	9423.1	4606.3	635.1	460.3	346.1	285.4	249.8	231.9	221.2	210.5	206.9
42.5°	10065.3	4431.5	606.6	417.5	310.4	253.3	224.8	203.4	192.7	178.4	174.8
45°	10975.2	4392.2	574.4	371.1	278.3	228.4	196.2	174.8	160.6	149.9	146.3
47.5°	12438.1	4502.8	520.9	321.1	246.2	199.8	167.7	149.9	132.0	121.3	114.2
50°	13890.2	4474.3	467.4	278.3	217.6	171.3	142.7	124.9	107.0	96.3	92.8
52.5°	14682.3	4338.7	417.5	246.2	189.1	146.3	121.3	99.9	89.2	78.5	74.9
55°	15399.5	4285.2	367.5	214.1	160.6	128.4	99.9	82.1	74.9	64.2	60.7
57.5°	16805.3	4410.1	324.7	185.5	139.2	110.6	85.6	67.8	60.7	50.0	46.4
60°	18275.3	4424.3	278.3	160.6	121.3	92.8	67.8	53.5	46.4	35.7	32.1
62.5°	19042.4	4064.0	228.4	135.6	99.9	78.5	57.1	42.8	35.7	21.4	21.4
65°	18400.2	3286.1	192.7	110.6	78.5	60.7	42.8	32.1	21.4	10.7	3.6
67.5°	16284.4	2337.0	160.6	89.2	57.1	42.8	32.1	21.4	3.6	0.0	0.0
70°	11924.3	1334.4	124.9	64.2	42.8	28.5	21.4	10.7	0.0	0.0	0.0
72.5°	7328.7	713.6	92.8	42.8	32.1	21.4	17.8	7.1	0.0	0.0	0.0
75°	2779.5	342.5	57.1	28.5	25.0	17.8	10.7	3.6	0.0	0.0	0.0
77.5°	752.8	167.7	32.1	21.4	17.8	10.7	7.1	0.0	0.0	0.0	0.0
80°	196.2	78.5	21.4	14.3	10.7	7.1	0.0	0.0	0.0	0.0	0.0
82.5°	67.8	35.7	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
85°	28.5	14.3	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	3.6	3.6	3.6	3.6	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)