

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: P636404

Luminaire Tested: GWS-SA3F-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636404
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-SA3F-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19894.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

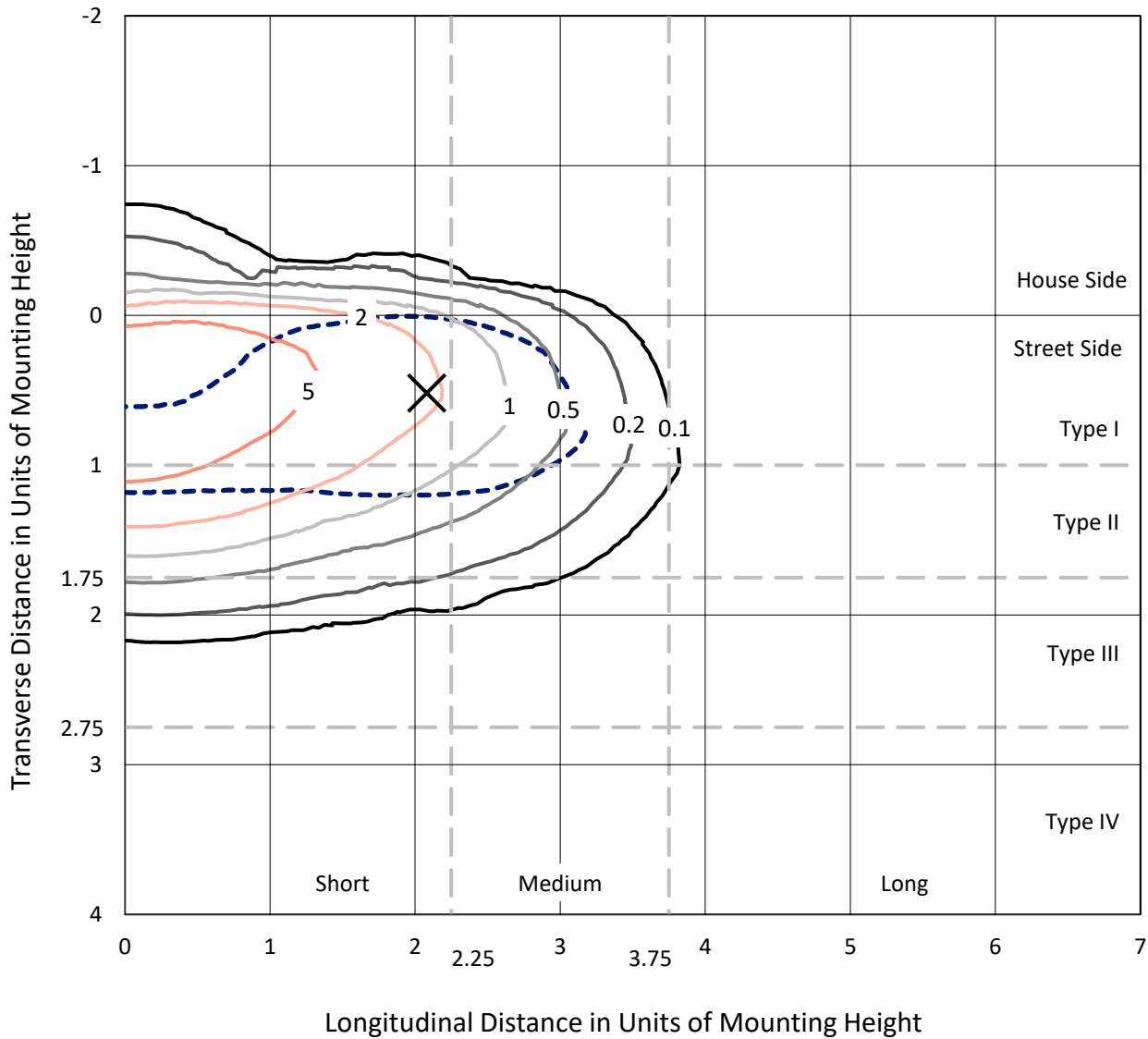
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

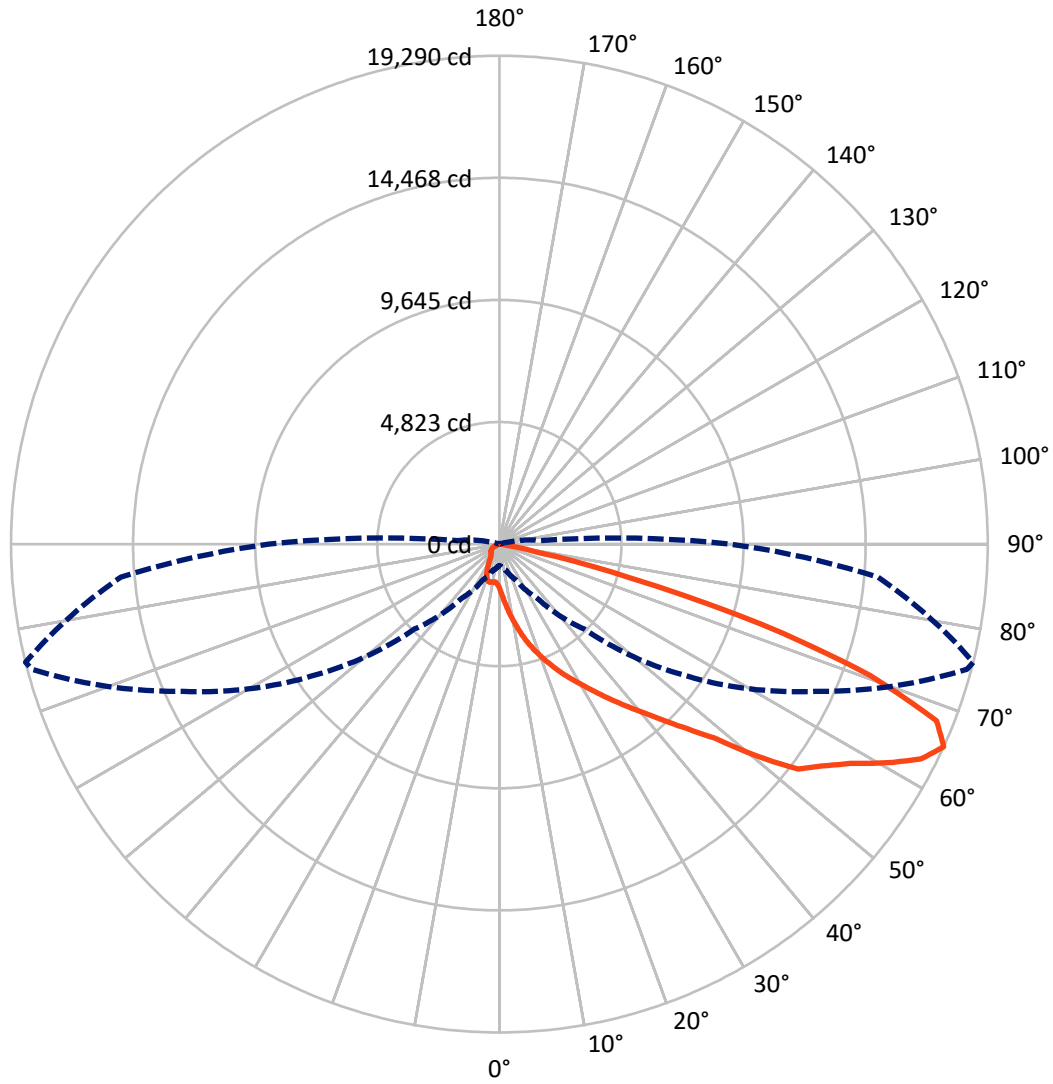
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1100.0	0.0	1100.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18794.4	0.0	18794.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	19894.4	0.0	19894.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	1.1
10°-20°	813.1	4.1
20°-30°	1658.8	8.3
30°-40°	2950.3	14.8
40°-50°	4361.2	21.9
50°-60°	4993.2	25.1
60°-70°	3809.6	19.1
70°-80°	1067.1	5.4
80°-90°	26.9	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°	19894.4	100.0
0°-180°	19894.4	100.0

Coefficient of Utilization



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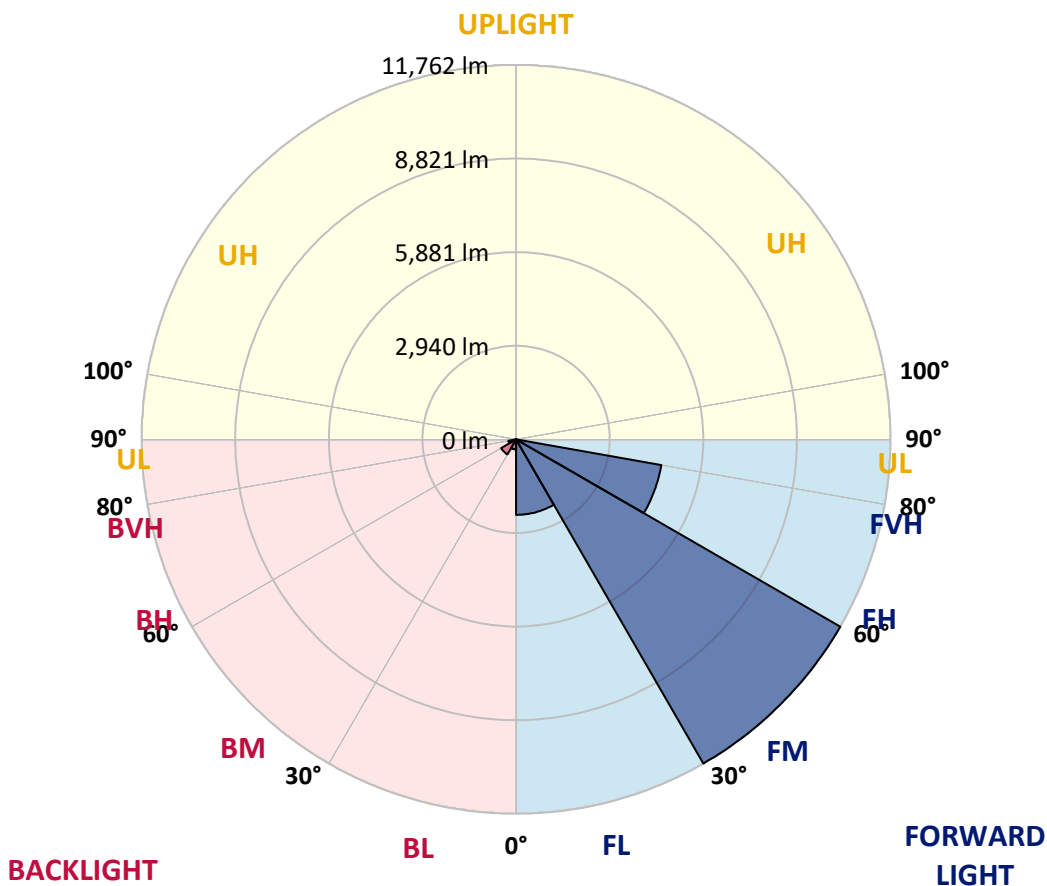
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2372.3	11.9			
FM (30°-60°)	11761.9	59.1			
FH (60°-80°)	4634.9	23.3			G2/5000
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	313.9	1.6	B1/500		
BM (30°-60°)	542.7	2.7	B1/1000		
BH (60°-80°)	241.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4
2.5°	2714.6	2755.3	2723.4	2670.4	2567.8	2468.8	2341.4	2166.4	2026.6	2009.0	1878.1
5°	3666.0	3662.5	3593.5	3524.5	3416.7	3246.9	2990.5	2665.1	2352.0	2325.5	2032.0
7.5°	4231.9	4237.2	4198.3	4145.3	4039.1	3864.1	3597.0	3204.4	2746.4	2693.4	2242.4
10°	4707.6	4705.9	4677.6	4652.8	4557.3	4440.6	4154.1	3722.6	3170.8	3087.7	2477.6
12.5°	5064.9	5077.2	5091.4	5116.1	5075.5	4960.5	4689.9	4219.5	3600.6	3508.6	2746.4
15°	5347.8	5351.3	5404.4	5499.9	5533.5	5473.4	5227.5	4700.6	4025.0	3945.4	3055.9
17.5°	5432.7	5439.8	5530.0	5705.0	5881.9	5915.5	5729.8	5185.1	4442.4	4357.5	3356.5
20°	5611.3	5627.2	5694.4	5848.3	6071.1	6251.5	6179.0	5675.0	4859.7	4748.3	3664.2
22.5°	6173.7	6182.5	6159.5	6179.0	6293.9	6502.6	6546.8	6148.9	5287.7	5169.2	3996.7
25°	7141.0	7144.6	6983.6	6831.5	6744.9	6783.8	6881.1	6585.7	5712.1	5595.4	4306.2
27.5°	8145.5	8157.9	7965.1	7706.9	7397.4	7220.6	7192.3	6985.4	6140.1	6011.0	4612.1
30°	9091.6	9091.6	8888.2	8573.5	8159.6	7814.8	7611.4	7388.6	6598.1	6456.6	4925.1
32.5°	9942.2	9935.2	9675.2	9333.9	8925.4	8546.9	8119.0	7809.5	7107.4	6950.0	5285.9
35°	10644.3	10626.6	10331.3	10004.1	9567.3	9286.2	8808.7	8262.2	7659.2	7501.8	5657.3
37.5°	11174.9	11155.4	10884.8	10538.2	10133.2	9951.1	9551.4	8805.1	8241.0	8097.8	6069.3
40°	11463.1	11424.2	11236.8	10978.6	10639.0	10479.9	10313.6	9478.9	8925.4	8746.8	6555.7
42.5°	11548.0	11502.0	11378.2	11258.0	11052.8	10927.3	11105.9	10239.3	9677.0	9523.1	7111.0
45°	11296.9	11270.4	11259.7	11346.4	11383.5	11418.9	11859.3	11081.1	10506.4	10389.7	7809.5
47.5°	10692.1	10685.0	10778.7	11139.5	11532.1	11905.2	12678.0	12119.2	11581.6	11456.0	8785.7
50°	9574.4	9646.9	9908.6	10541.8	11326.9	12181.1	13443.8	13558.7	13321.8	13137.8	10059.0
52.5°	7827.2	7966.9	8554.0	9516.1	10644.3	12103.3	13797.5	14711.8	14954.0	14763.1	10971.5
55°	6141.8	6272.7	6796.2	8016.4	9521.4	11510.9	13813.4	15109.7	15638.4	15461.6	11588.7
57.5°	4575.0	4695.2	5171.0	6338.1	7993.4	10345.5	13434.9	15330.7	16450.2	16337.0	12563.1
60°	2990.5	3108.9	3538.7	4559.1	6200.2	8647.7	12503.0	15284.7	17555.4	17544.8	13760.3
62.5°	1658.8	1752.5	2063.8	2859.6	4327.4	6697.1	11038.7	14823.2	18625.4	18692.6	14747.1
65°	848.9	909.0	1098.2	1572.2	2619.1	4748.3	9112.8	13765.6	19120.5	19290.3	15007.1
67.5°	555.3	574.7	620.7	817.0	1402.4	2986.9	6858.1	12069.7	18423.8	18621.8	14135.3
70°	451.0	466.9	493.4	544.7	723.3	1586.3	4504.3	9639.8	15394.4	15528.8	11256.2
72.5°	330.7	351.9	403.2	436.8	521.7	870.1	2343.2	6327.5	10571.8	10808.8	7073.8
75°	244.0	256.4	298.9	344.8	426.2	550.0	896.6	3326.5	5459.2	5321.3	2971.0
77.5°	146.8	155.6	191.0	221.1	304.2	343.1	313.0	1229.1	1660.6	1561.5	718.0
80°	72.5	81.3	125.6	166.2	194.5	137.9	130.9	343.1	369.6	369.6	180.4
82.5°	24.8	31.8	67.2	109.6	95.5	53.1	61.9	88.4	99.0	104.3	53.1
85°	0.0	0.0	15.9	31.8	14.1	7.1	15.9	19.5	24.8	26.5	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.1	7.1
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°	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4	1761.4
2.5°	1807.4	1724.2	1598.7	1485.5	1398.8	1317.5	1255.6	1206.1	1197.2	1168.9	1172.5
5°	1888.7	1738.4	1506.7	1328.1	1202.5	1117.7	1046.9	993.9	970.9	947.9	930.2
7.5°	2014.3	1796.7	1471.4	1253.8	1107.1	976.2	866.5	778.1	735.7	709.1	691.5
10°	2168.1	1878.1	1473.1	1209.6	992.1	792.3	641.9	544.7	498.7	484.6	482.8
12.5°	2352.0	1980.7	1487.3	1137.1	825.9	588.9	475.7	431.5	417.4	405.0	405.0
15°	2546.6	2095.6	1487.3	1004.5	629.6	459.8	412.0	383.8	366.1	359.0	355.5
17.5°	2751.7	2203.5	1451.9	822.3	482.8	405.0	366.1	339.5	325.4	314.8	311.2
20°	2971.0	2306.1	1363.5	629.6	413.8	362.5	325.4	298.9	284.7	274.1	274.1
22.5°	3193.8	2401.6	1220.2	484.6	366.1	321.9	286.5	261.7	247.6	237.0	237.0
25°	3400.7	2465.2	1036.3	399.7	330.7	286.5	254.7	229.9	214.0	206.9	203.4
27.5°	3593.5	2505.9	832.9	351.9	297.1	256.4	222.8	199.8	187.5	182.2	178.6
30°	3793.3	2516.5	636.6	320.1	268.8	226.4	194.5	176.8	166.2	159.2	159.2
32.5°	3987.9	2504.1	486.3	293.6	244.0	199.8	173.3	157.4	148.6	143.2	141.5
35°	4185.9	2447.5	394.4	270.6	219.3	175.1	153.9	141.5	136.2	129.1	129.1
37.5°	4401.7	2371.5	343.1	247.6	194.5	157.4	137.9	129.1	122.0	116.7	114.9
40°	4670.5	2283.1	314.8	228.1	171.5	141.5	123.8	114.9	109.6	104.3	102.6
42.5°	4988.8	2196.4	300.6	206.9	153.9	125.6	111.4	100.8	95.5	88.4	86.7
45°	5439.8	2177.0	284.7	183.9	137.9	113.2	97.3	86.7	79.6	74.3	72.5
47.5°	6164.8	2231.8	258.2	159.2	122.0	99.0	83.1	74.3	65.4	60.1	56.6
50°	6884.6	2217.6	231.7	137.9	107.9	84.9	70.7	61.9	53.1	47.7	46.0
52.5°	7277.2	2150.4	206.9	122.0	93.7	72.5	60.1	49.5	44.2	38.9	37.1
55°	7632.6	2123.9	182.2	106.1	79.6	63.7	49.5	40.7	37.1	31.8	30.1
57.5°	8329.4	2185.8	160.9	92.0	69.0	54.8	42.4	33.6	30.1	24.8	23.0
60°	9058.0	2192.9	137.9	79.6	60.1	46.0	33.6	26.5	23.0	17.7	15.9
62.5°	9438.2	2014.3	113.2	67.2	49.5	38.9	28.3	21.2	17.7	10.6	10.6
65°	9119.9	1628.7	95.5	54.8	38.9	30.1	21.2	15.9	10.6	5.3	1.8
67.5°	8071.2	1158.3	79.6	44.2	28.3	21.2	15.9	10.6	1.8	0.0	0.0
70°	5910.2	661.4	61.9	31.8	21.2	14.1	10.6	5.3	0.0	0.0	0.0
72.5°	3632.4	353.7	46.0	21.2	15.9	10.6	8.8	3.5	0.0	0.0	0.0
75°	1377.6	169.8	28.3	14.1	12.4	8.8	5.3	1.8	0.0	0.0	0.0
77.5°	373.1	83.1	15.9	10.6	8.8	5.3	3.5	0.0	0.0	0.0	0.0
80°	97.3	38.9	10.6	7.1	5.3	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	17.7	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.1	7.1	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	1.8	1.8	1.8	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)