

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: P639186

Luminaire Tested: GWS-SA5B-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639186
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-SA5B-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13882.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

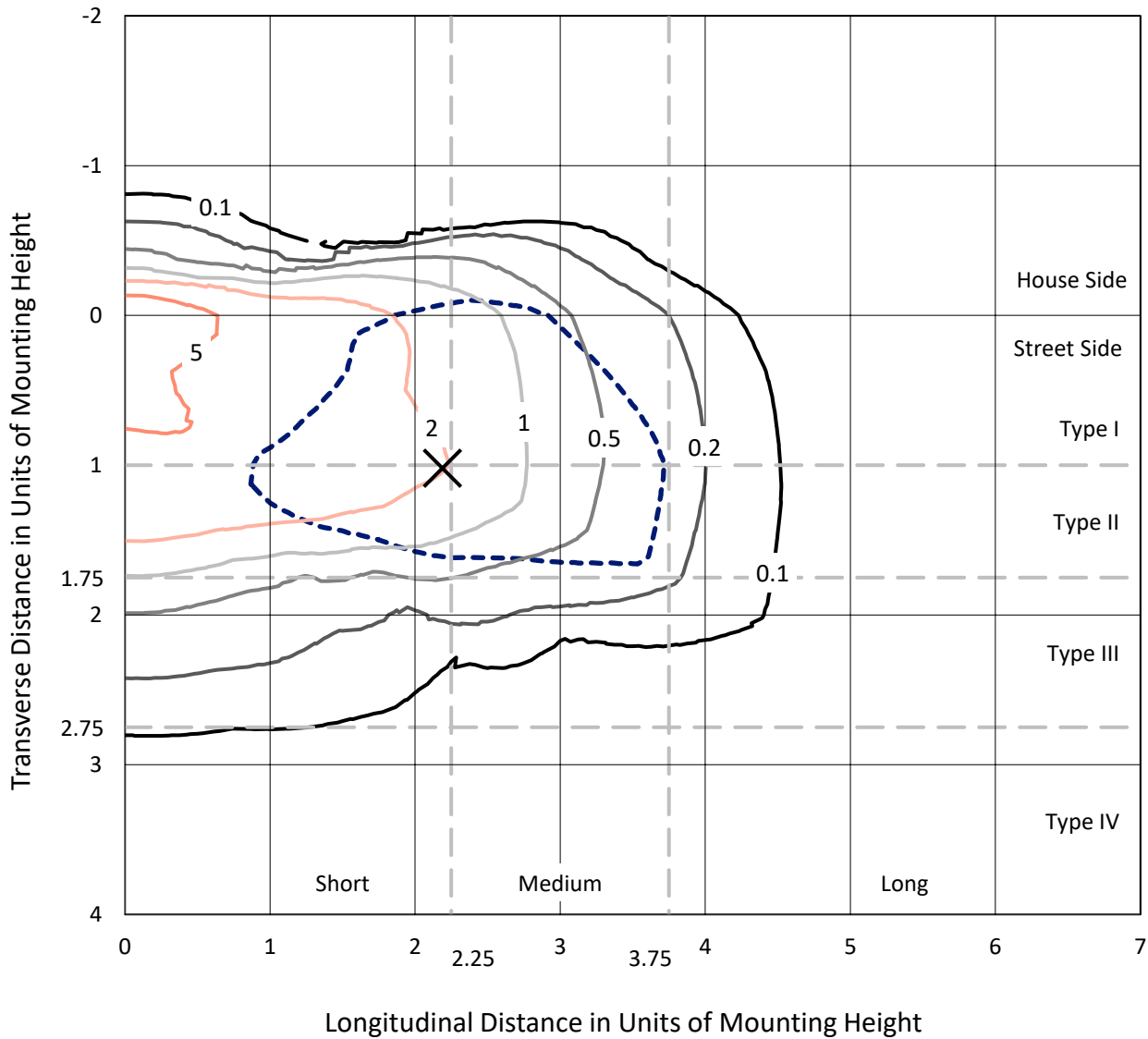
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

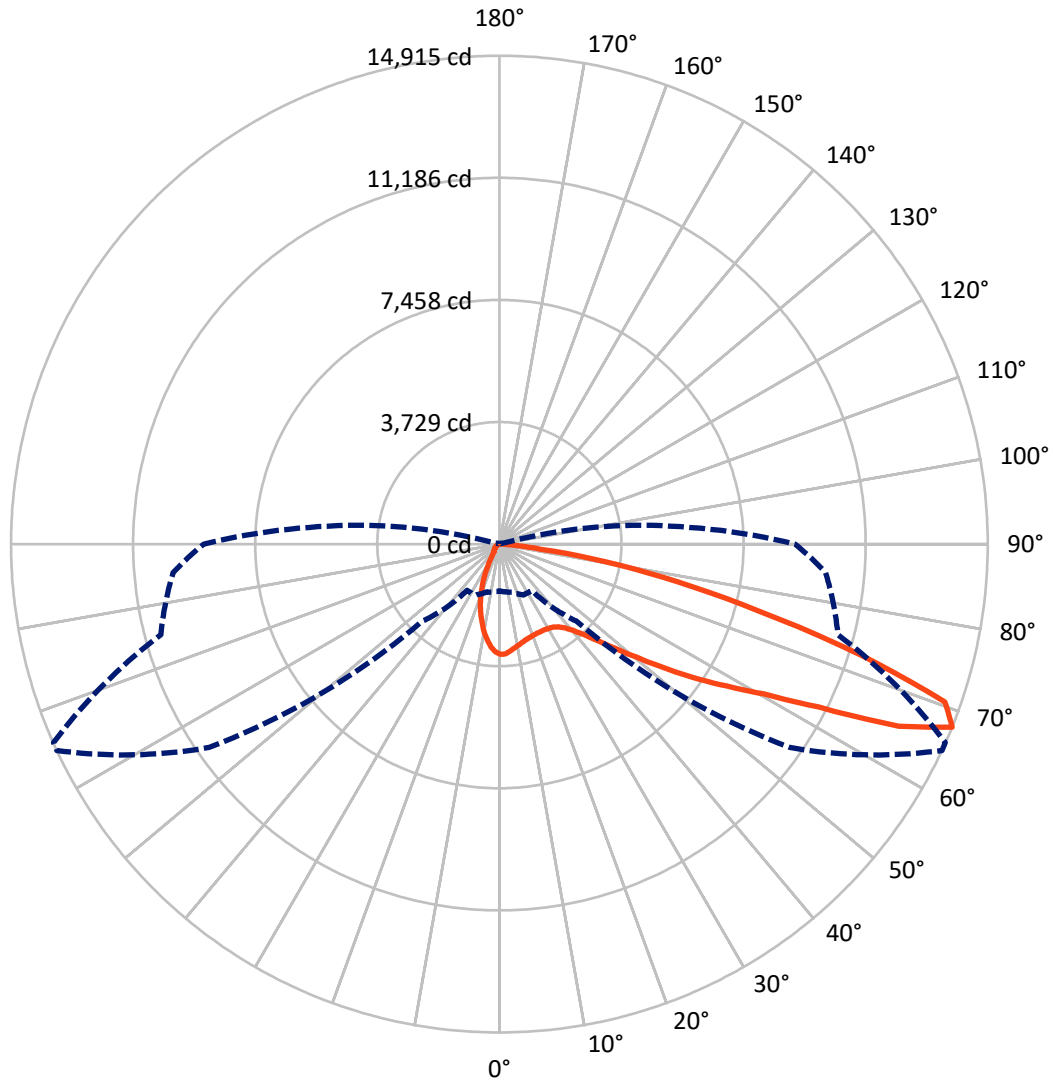
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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	1733.5	0.0	1733.5
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	12148.9	0.0	12148.9
	% Fixture	87.5	0.0	87.5
Total	Lumens	13882.4	0.0	13882.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	2.0
10°-20°	628.6	4.5
20°-30°	898.3	6.5
30°-40°	1306.8	9.4
40°-50°	2046.7	14.7
50°-60°	3193.0	23.0
60°-70°	3507.3	25.3
70°-80°	1866.6	13.4
80°-90°	155.4	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°	13882.4	100.0
0°-180°	13882.4	100.0

Coefficient of Utilization



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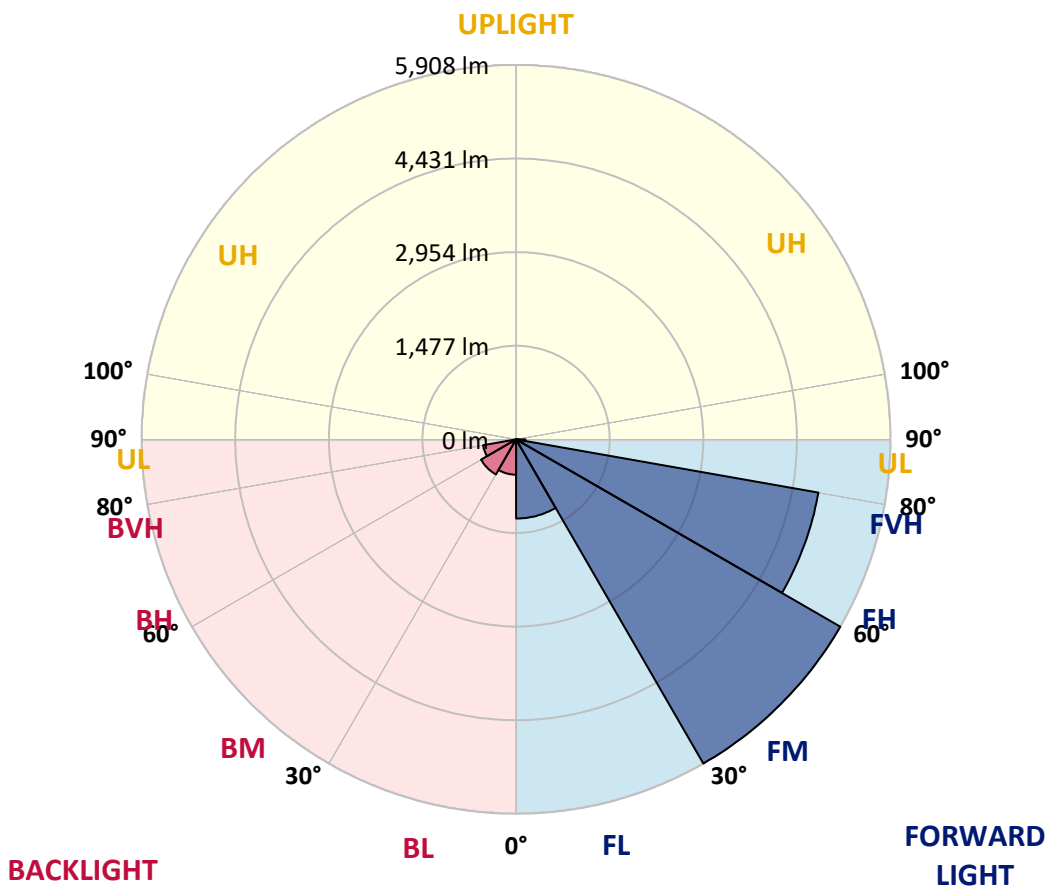
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.3	9.0			
FM (30°-60°)	5908.1	42.6			
FH (60°-80°)	4844.4	34.9			G2/5000
FVH (80°-90°)	147.1	1.1			G2/225
BL (0°-30°)	557.2	4.0	B2/1000		
BM (30°-60°)	638.5	4.6	B1/1000		
BH (60°-80°)	529.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9
2.5°	3250.2	3260.2	3246.4	3280.3	3286.6	3324.2	3345.6	3360.6	3359.4	3378.2	3378.2
5°	3059.4	3069.4	3061.9	3098.3	3127.1	3186.1	3235.1	3291.6	3294.1	3351.9	3373.2
7.5°	2897.4	2898.7	2898.7	2943.9	2981.5	3054.3	3127.1	3213.8	3223.8	3312.9	3369.4
10°	2764.3	2768.1	2769.4	2820.8	2862.3	2950.1	3043.0	3147.2	3158.5	3279.0	3366.9
12.5°	2672.7	2674.0	2679.0	2733.0	2778.1	2869.8	2963.9	3083.2	3098.3	3240.1	3355.6
15°	2628.8	2626.2	2628.8	2674.0	2719.1	2807.0	2903.7	3031.7	3048.1	3207.5	3356.9
17.5°	2626.2	2622.5	2620.0	2653.9	2682.7	2760.6	2858.5	2997.8	3015.4	3192.4	3370.7
20°	2662.7	2660.1	2647.6	2662.7	2668.9	2733.0	2829.6	2971.5	2989.1	3189.9	3400.8
22.5°	2758.1	2751.8	2733.0	2719.1	2685.2	2722.9	2809.5	2952.6	2972.7	3196.2	3439.7
25°	2899.9	2897.4	2873.6	2839.7	2753.0	2738.0	2810.8	2952.6	2971.5	3203.7	3481.2
27.5°	3113.3	3098.3	3068.1	3009.1	2884.9	2797.0	2835.9	2960.2	2979.0	3213.8	3515.1
30°	3330.5	3329.3	3319.2	3259.0	3074.4	2910.0	2888.6	2980.3	2997.8	3222.6	3546.4
32.5°	3555.2	3559.0	3584.1	3537.7	3335.5	3078.2	2984.0	3021.7	3034.2	3240.1	3574.1
35°	3768.6	3776.2	3842.7	3859.0	3653.1	3333.0	3139.7	3104.5	3105.8	3279.0	3610.5
37.5°	3973.3	3998.4	4105.1	4184.2	4048.6	3641.8	3364.4	3245.1	3235.1	3356.9	3665.7
40°	4205.5	4253.2	4387.5	4521.9	4479.2	4049.8	3670.7	3461.1	3439.7	3500.0	3764.9
42.5°	4462.9	4514.3	4692.6	4880.9	4901.0	4543.2	4053.6	3776.2	3739.8	3741.0	3950.7
45°	4739.0	4808.1	5015.2	5286.4	5408.2	5093.1	4525.6	4201.7	4165.3	4111.4	4249.4
47.5°	5101.8	5162.1	5361.7	5674.3	5907.8	5683.1	5144.5	4749.1	4682.6	4603.5	4713.9
50°	5414.4	5467.2	5639.2	6030.8	6516.7	6443.8	5846.3	5433.3	5369.2	5234.9	5326.6
52.5°	5483.5	5524.9	5683.1	6123.7	6982.4	7404.2	6706.2	6260.6	6215.4	5966.8	6002.0
55°	5173.4	5236.2	5378.0	5867.6	7104.2	8343.2	7822.2	7193.3	7099.2	6702.5	6765.2
57.5°	4390.1	4501.8	4634.8	5271.3	6774.0	8842.9	9381.4	8181.3	8095.9	7410.5	7411.7
60°	3217.5	3307.9	3397.0	3979.5	5990.7	8809.0	10796.2	9291.0	9135.4	7989.2	7967.9
62.5°	2340.0	2386.5	2385.2	2592.4	4113.9	8229.0	11539.4	10963.2	10600.4	8608.1	8486.3
65°	1840.4	1839.1	1893.1	1960.9	2297.3	6352.2	11631.1	13404.9	13013.2	9437.9	9184.3
67.5°	1432.4	1460.0	1514.0	1713.6	1726.1	3324.2	10825.1	14915.1	14907.6	10704.6	10001.6
70°	1104.7	1142.4	1219.0	1510.2	1594.3	1860.5	8099.7	14436.8	14558.6	11270.8	9422.9
72.5°	709.3	706.8	819.8	1220.2	1531.6	1550.4	4479.2	11467.9	11606.0	10208.7	7618.9
75°	396.7	399.2	463.2	746.9	1427.4	1458.7	2218.2	8177.5	8286.7	7959.1	5853.8
77.5°	155.7	160.7	217.2	392.9	941.5	1303.1	1318.1	5576.4	5592.7	4932.4	3590.4
80°	62.8	66.5	110.5	243.5	573.7	877.5	941.5	3285.3	3218.8	1909.4	1044.5
82.5°	18.8	20.1	43.9	138.1	300.0	623.9	635.2	1260.4	1190.1	410.5	266.1
85°	1.3	1.3	10.0	42.7	106.7	156.9	423.1	410.5	364.1	102.9	118.0
87.5°	0.0	0.0	1.3	1.3	2.5	5.0	45.2	75.3	76.6	18.8	52.7
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°	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9
2.5°	3378.2	3333.0	3329.3	3294.1	3259.0	3215.0	3163.5	3125.9	3099.5	3053.1	3044.3
5°	3373.2	3312.9	3256.4	3156.0	3044.3	2923.8	2818.3	2720.4	2658.9	2617.5	2599.9
7.5°	3363.2	3286.6	3156.0	2966.5	2779.4	2568.5	2404.0	2253.4	2150.5	2090.2	2063.8
10°	3355.6	3252.7	3040.5	2753.0	2463.0	2171.8	1922.0	1698.5	1574.2	1476.3	1460.0
12.5°	3340.6	3203.7	2892.4	2503.2	2129.1	1742.5	1423.6	1149.9	960.4	875.0	844.9
15°	3325.5	3152.2	2744.3	2239.6	1765.1	1288.0	901.4	637.7	507.2	467.0	464.5
17.5°	3323.0	3105.8	2583.6	1989.8	1383.4	843.6	513.4	413.0	385.4	375.4	375.4
20°	3330.5	3066.9	2425.4	1702.3	1008.1	513.4	382.9	357.8	341.5	332.7	332.7
22.5°	3338.0	3026.7	2273.5	1412.3	669.1	375.4	337.7	316.4	297.5	287.5	282.5
25°	3343.1	2982.8	2105.3	1121.1	436.9	326.4	296.3	268.7	246.1	233.5	233.5
27.5°	3341.8	2930.0	1935.8	836.1	339.0	290.0	253.6	224.7	202.1	188.3	189.6
30°	3331.8	2872.3	1760.0	583.7	296.3	253.6	217.2	187.1	164.5	153.2	151.9
32.5°	3324.2	2810.8	1556.7	410.5	266.1	222.2	184.5	155.7	136.8	128.0	126.8
35°	3315.4	2750.5	1363.3	312.6	239.8	192.1	155.7	131.8	116.7	109.2	109.2
37.5°	3318.0	2687.8	1153.7	268.7	213.4	167.0	133.1	113.0	100.4	92.9	91.6
40°	3356.9	2650.1	947.8	243.5	189.6	144.4	115.5	97.9	85.4	77.8	76.6
42.5°	3453.5	2651.4	750.7	224.7	168.2	123.0	100.4	84.1	72.8	64.0	62.8
45°	3646.9	2704.1	576.2	204.6	145.6	106.7	86.6	71.6	60.3	52.7	51.5
47.5°	3963.2	2861.0	436.9	187.1	126.8	92.9	74.1	60.3	50.2	43.9	42.7
50°	4466.6	3144.7	344.0	165.7	106.7	80.3	62.8	50.2	41.4	35.2	33.9
52.5°	5071.7	3570.3	295.0	146.9	91.6	70.3	54.0	41.4	33.9	28.9	27.6
55°	5767.2	4078.7	272.4	128.0	77.8	60.3	43.9	33.9	27.6	23.9	21.3
57.5°	6404.9	4536.9	271.2	109.2	66.5	51.5	36.4	28.9	23.9	18.8	17.6
60°	7026.3	4919.8	254.8	90.4	57.7	42.7	31.4	23.9	20.1	16.3	15.1
62.5°	7590.0	5231.2	213.4	72.8	49.0	35.2	26.4	21.3	17.6	13.8	13.8
65°	8298.0	5627.9	163.2	59.0	40.2	28.9	22.6	18.8	16.3	12.6	12.6
67.5°	9029.9	5837.5	116.7	49.0	32.6	25.1	20.1	17.6	13.8	11.3	11.3
70°	8178.8	4932.4	84.1	40.2	27.6	21.3	17.6	16.3	13.8	11.3	10.0
72.5°	6387.4	3556.5	62.8	31.4	23.9	20.1	16.3	15.1	12.6	10.0	10.0
75°	4736.5	2073.9	47.7	25.1	18.8	16.3	16.3	15.1	12.6	10.0	8.8
77.5°	2574.8	723.1	36.4	20.1	15.1	12.6	13.8	13.8	11.3	8.8	7.5
80°	681.7	198.3	25.1	15.1	12.6	10.0	10.0	12.6	10.0	7.5	7.5
82.5°	198.3	57.7	17.6	12.6	10.0	8.8	8.8	8.8	7.5	6.3	5.0
85°	96.7	21.3	12.6	10.0	8.8	7.5	6.3	6.3	5.0	3.8	3.8
87.5°	42.7	8.8	10.0	8.8	8.8	6.3	5.0	3.8	3.8	2.5	1.3
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)