

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: P637237

Luminaire Tested: GWS-SA4C-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14987.6 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

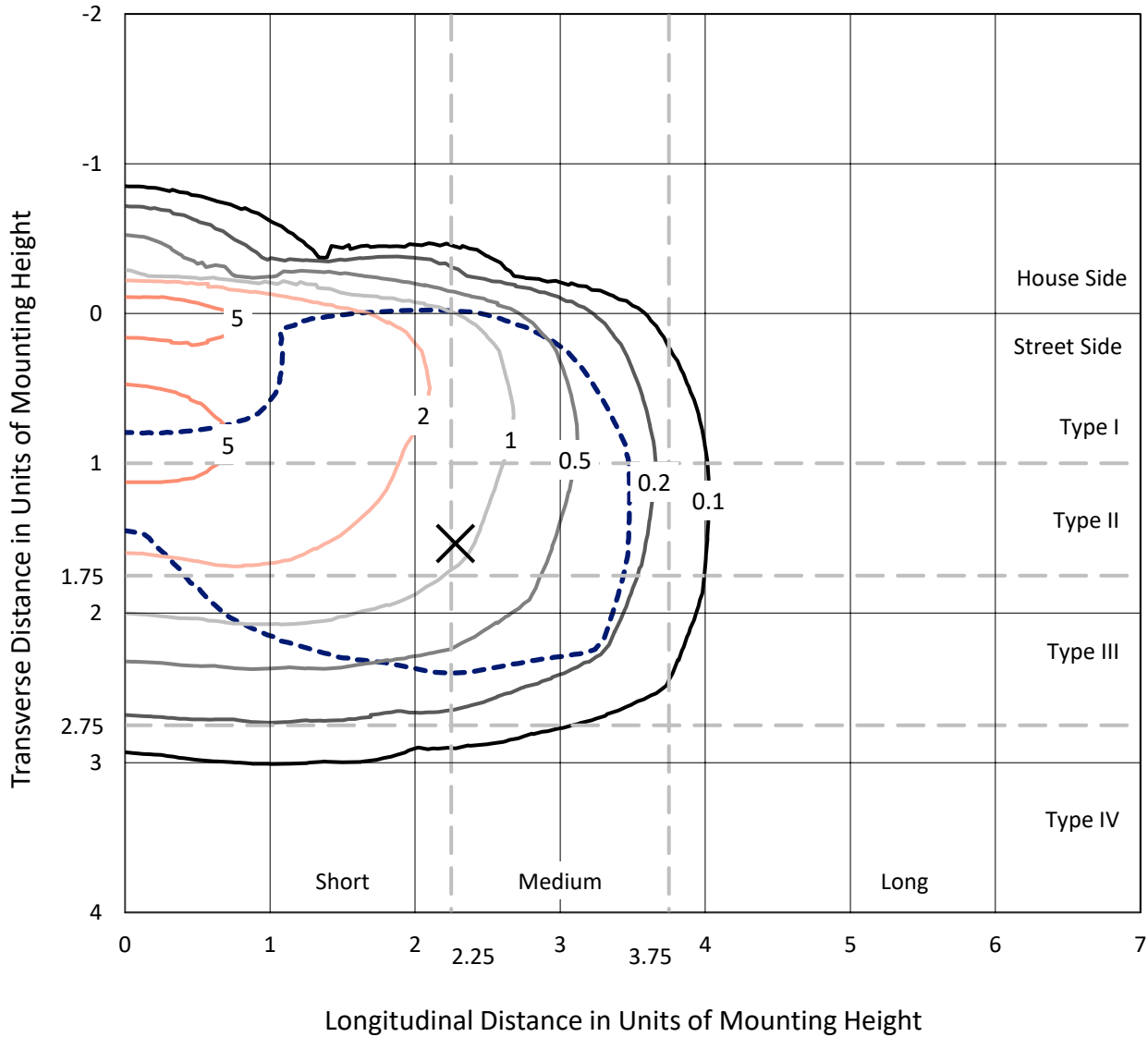
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

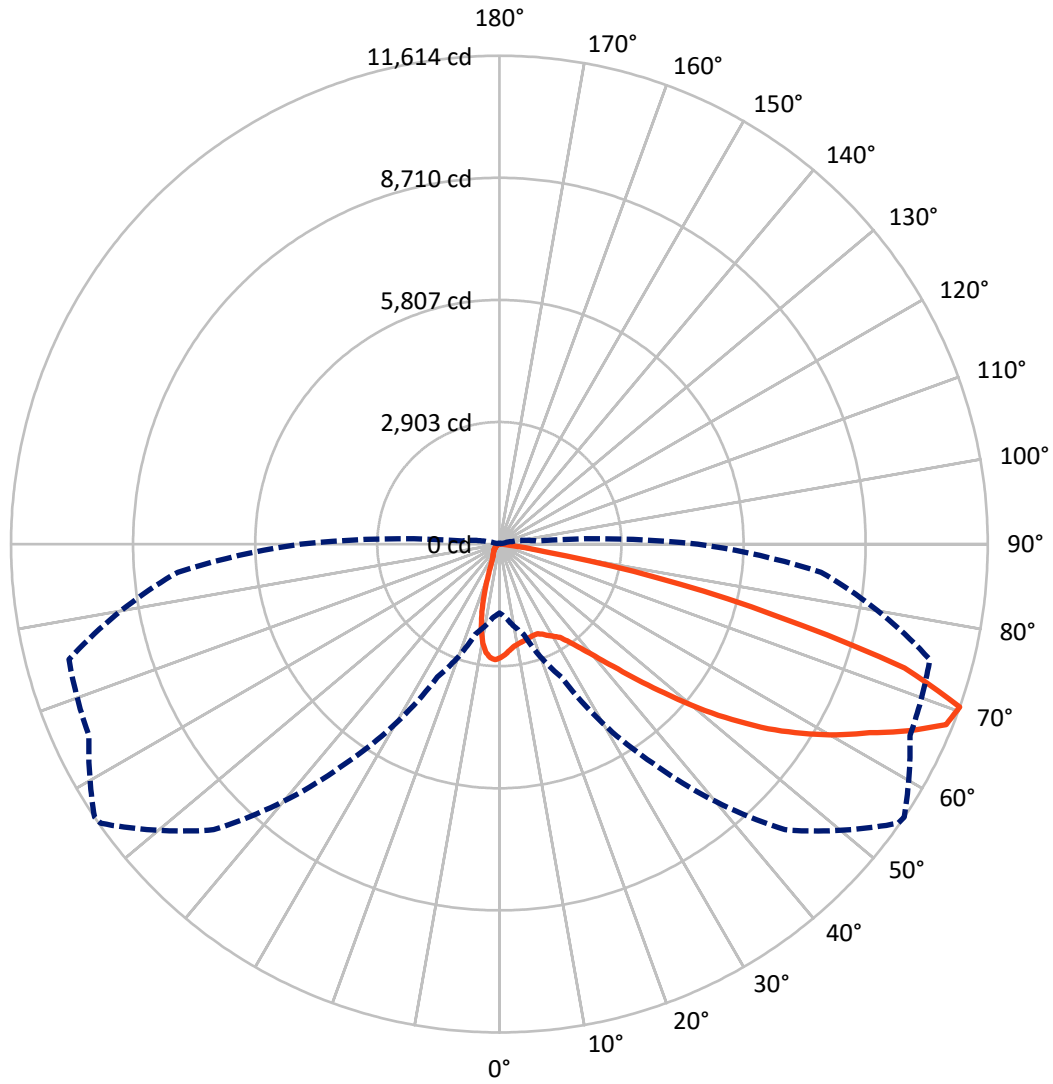
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.2	0.0	1346.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	13641.4	0.0	13641.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	14987.6	0.0	14987.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	1.5
10°-20°	521.9	3.5
20°-30°	826.6	5.5
30°-40°	1425.5	9.5
40°-50°	2407.2	16.1
50°-60°	3536.9	23.6
60°-70°	4193.2	28.0
70°-80°	1788.1	11.9
80°-90°	56.1	0.4
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°	14987.6	100.0
0°-180°	14987.6	100.0

Coefficient of Utilization



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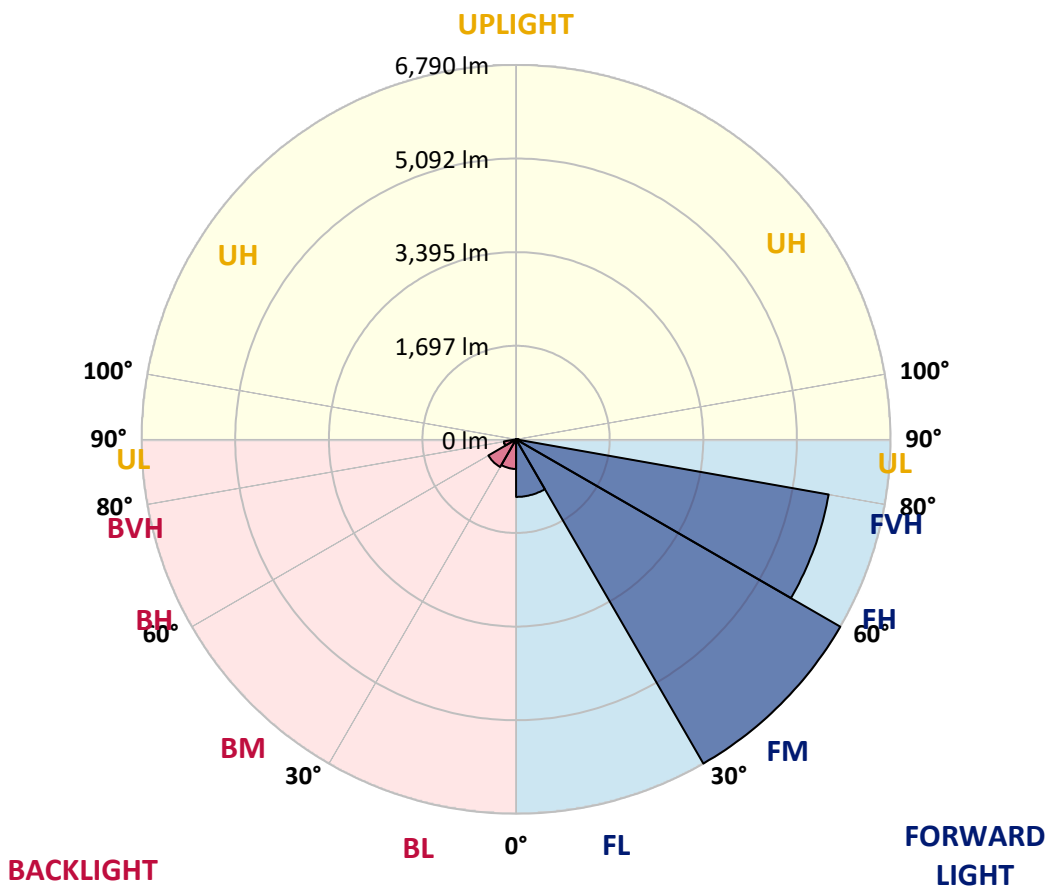
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.4	7.0			
FM (30°-60°)	6789.8	45.3			
FH (60°-80°)	5756.8	38.4			G3/7500
FVH (80°-90°)	50.4	0.3			G1/100
BL (0°-30°)	536.1	3.6	B2/1000		
BM (30°-60°)	579.8	3.9	B1/1000		
BH (60°-80°)	224.5	1.5	B1/500		G1/500
BVH (80°-90°)	5.7	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4
2.5°	2515.8	2511.6	2514.4	2535.0	2573.4	2591.2	2621.4	2626.9	2651.6	2683.2	2695.6
5°	2352.4	2338.7	2345.6	2374.4	2418.3	2467.7	2524.0	2539.1	2600.9	2670.8	2723.0
7.5°	2202.8	2187.7	2204.2	2249.5	2311.3	2364.8	2448.5	2458.1	2556.9	2680.5	2775.2
10°	1968.1	1972.3	2005.2	2084.8	2179.5	2290.7	2403.2	2416.9	2539.1	2712.0	2858.9
12.5°	1788.3	1778.7	1814.4	1905.0	2038.1	2200.1	2368.9	2386.7	2540.5	2760.1	2965.9
15°	1704.6	1701.9	1717.0	1782.9	1911.9	2102.6	2337.3	2360.7	2558.3	2804.0	3067.5
17.5°	1707.4	1703.2	1701.9	1740.3	1836.4	2029.9	2303.0	2333.2	2573.4	2852.0	3174.5
20°	1826.8	1807.6	1773.2	1755.4	1813.0	1983.2	2279.7	2314.0	2595.4	2902.8	3288.5
22.5°	2076.6	2083.4	1991.5	1895.4	1867.9	1988.7	2276.9	2316.7	2643.4	2982.4	3428.5
25°	2576.1	2565.2	2395.0	2179.5	2029.9	2051.9	2325.0	2373.0	2738.1	3096.3	3560.2
27.5°	3202.0	3211.6	2978.3	2635.2	2322.2	2182.2	2412.8	2460.9	2847.9	3167.7	3648.1
30°	3884.1	3874.5	3624.7	3244.5	2736.7	2399.1	2500.7	2543.2	2902.8	3206.1	3738.6
32.5°	4529.2	4507.2	4260.2	3862.2	3265.1	2740.8	2621.4	2646.1	2975.5	3289.8	3860.8
35°	5079.6	5078.2	4862.7	4438.6	3808.6	3169.1	2828.7	2849.3	3111.4	3423.0	4040.6
37.5°	5647.8	5628.5	5387.0	4999.9	4367.2	3638.4	3145.7	3137.5	3325.5	3619.2	4261.6
40°	6114.4	6102.1	5916.8	5544.8	4947.8	4157.2	3530.0	3505.3	3579.4	3891.0	4569.0
42.5°	6460.3	6461.6	6404.0	6177.5	5562.7	4757.0	4013.1	3974.7	3973.3	4301.4	4975.2
45°	6722.4	6740.3	6826.7	6792.4	6288.7	5455.6	4632.1	4592.3	4525.1	4833.9	5440.5
47.5°	6844.6	6867.9	7128.7	7265.9	6924.2	6148.7	5369.1	5285.4	5153.7	5542.1	5960.7
50°	6832.2	6873.4	7237.1	7654.3	7500.6	6851.4	6172.0	6132.2	5916.8	6291.5	6475.4
52.5°	6552.2	6640.1	7244.0	7890.4	7943.9	7499.2	7002.4	6928.3	6824.0	7073.8	6958.5
55°	5791.9	5898.9	6954.4	7965.9	8289.8	8064.7	7814.9	7754.5	7581.6	7812.2	7379.8
57.5°	5378.8	5470.7	6345.0	7928.8	8583.5	8587.6	8538.2	8488.8	8346.1	8542.3	7873.9
60°	5130.3	5222.3	6019.7	7792.9	8849.8	9139.4	9217.6	9212.1	9006.2	9372.7	8453.1
62.5°	4766.6	4892.9	5680.7	7440.2	9039.2	9682.9	9918.9	9881.9	9652.7	10237.3	9026.8
65°	4032.3	4142.1	4986.2	6858.3	8928.0	10133.0	10679.3	10698.5	10433.6	11051.2	9479.7
67.5°	2827.3	2908.3	3746.9	5636.8	8173.1	10281.3	11457.5	11456.1	11004.6	11468.5	9279.3
70°	1638.7	1749.9	2213.8	3484.7	6358.7	9607.4	11574.1	11613.9	10772.6	10596.9	7679.0
72.5°	634.1	726.0	1254.4	1851.5	3315.9	7359.2	9956.0	10072.6	9015.8	8174.5	5344.4
75°	189.4	211.4	590.2	985.4	1331.3	3554.7	6740.3	6773.2	6184.4	5098.8	2739.5
77.5°	141.4	156.5	258.0	498.2	466.6	1077.4	3487.5	3808.6	3283.0	1821.3	754.9
80°	96.1	113.9	183.9	242.9	172.9	286.8	980.0	1076.0	1001.9	409.0	189.4
82.5°	42.5	54.9	130.4	122.2	63.1	82.3	301.9	321.2	207.2	123.5	65.9
85°	4.1	5.5	49.4	53.5	23.3	19.2	63.1	63.1	45.3	42.5	27.4
87.5°	0.0	0.0	1.4	2.7	2.7	4.1	5.5	6.9	8.2	11.0	13.7
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°	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4	2702.4
2.5°	2727.1	2710.6	2731.2	2747.7	2751.8	2721.6	2703.8	2677.7	2672.2	2673.6	2666.7
5°	2764.2	2755.9	2771.0	2753.2	2706.5	2618.7	2543.2	2459.5	2414.2	2388.1	2385.4
7.5°	2832.8	2828.7	2812.2	2731.2	2585.8	2390.9	2202.8	2018.9	1905.0	1863.8	1857.0
10°	2934.4	2926.1	2858.9	2666.7	2356.5	1981.9	1666.2	1402.7	1242.1	1195.4	1137.8
12.5°	3051.0	3034.6	2887.7	2528.1	2010.7	1491.9	1098.0	802.9	664.3	623.1	623.1
15°	3163.6	3127.9	2871.2	2298.9	1585.2	970.3	613.5	463.9	421.4	410.4	410.4
17.5°	3278.9	3210.2	2806.7	1986.0	1095.2	573.7	409.0	380.2	374.7	376.1	377.4
20°	3387.3	3280.2	2692.8	1609.9	698.6	400.8	366.5	359.6	356.8	359.6	358.2
22.5°	3505.3	3344.7	2519.9	1199.5	454.3	361.0	348.6	343.1	340.4	344.5	344.5
25°	3622.0	3391.4	2290.7	807.0	361.0	336.3	329.4	323.9	321.2	322.5	322.5
27.5°	3682.4	3373.6	1990.1	514.7	323.9	311.6	304.7	297.8	293.7	292.3	293.7
30°	3723.5	3318.7	1622.3	366.5	293.7	278.6	271.8	266.3	255.3	248.4	251.2
32.5°	3788.0	3263.8	1222.9	307.4	269.0	245.7	234.7	221.0	205.9	199.0	199.0
35°	3864.9	3188.3	857.8	277.2	242.9	218.2	197.6	174.3	156.5	151.0	151.0
37.5°	3966.5	3116.9	571.0	256.7	221.0	194.9	166.1	138.6	119.4	116.7	115.3
40°	4118.8	3056.5	402.1	241.6	201.8	170.2	135.9	107.1	93.3	89.2	89.2
42.5°	4316.5	2994.8	318.4	226.5	185.3	146.9	108.4	85.1	74.1	71.4	70.0
45°	4560.8	2922.0	277.2	212.7	168.8	122.2	86.5	71.4	63.1	60.4	60.4
47.5°	4825.6	2823.2	258.0	194.9	149.6	98.8	72.7	61.8	57.6	56.3	54.9
50°	5086.4	2690.1	241.6	178.4	127.6	81.0	63.1	56.3	53.5	52.2	52.2
52.5°	5314.2	2535.0	221.0	159.2	104.3	70.0	56.3	52.2	49.4	46.7	45.3
55°	5509.1	2366.2	194.9	137.2	85.1	61.8	52.2	48.0	45.3	42.5	41.2
57.5°	5760.3	2270.1	156.5	111.2	70.0	54.9	48.0	43.9	41.2	37.1	37.1
60°	6038.9	2200.1	116.7	87.8	60.4	50.8	43.9	39.8	37.1	32.9	32.9
62.5°	6262.6	2095.8	92.0	71.4	52.2	45.3	39.8	35.7	32.9	28.8	28.8
65°	6347.7	1880.3	75.5	56.3	42.5	39.8	35.7	32.9	28.8	24.7	24.7
67.5°	5963.4	1449.3	63.1	45.3	35.7	34.3	31.6	30.2	24.7	22.0	20.6
70°	4722.7	883.9	52.2	37.1	30.2	28.8	28.8	26.1	22.0	20.6	19.2
72.5°	3236.3	455.7	42.5	30.2	26.1	26.1	24.7	23.3	20.6	19.2	19.2
75°	1681.3	152.3	32.9	23.3	20.6	22.0	22.0	20.6	19.2	19.2	17.8
77.5°	481.7	68.6	24.7	17.8	16.5	16.5	17.8	17.8	17.8	16.5	16.5
80°	124.9	39.8	17.8	13.7	13.7	13.7	13.7	15.1	16.5	15.1	15.1
82.5°	50.8	22.0	12.4	11.0	11.0	11.0	11.0	12.4	13.7	13.7	13.7
85°	31.6	11.0	9.6	9.6	9.6	8.2	8.2	9.6	9.6	11.0	11.0
87.5°	19.2	8.2	8.2	8.2	8.2	6.9	6.9	6.9	6.9	6.9	6.9
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)