

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: P633747

Luminaire Tested: GWS-SA2F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12606.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

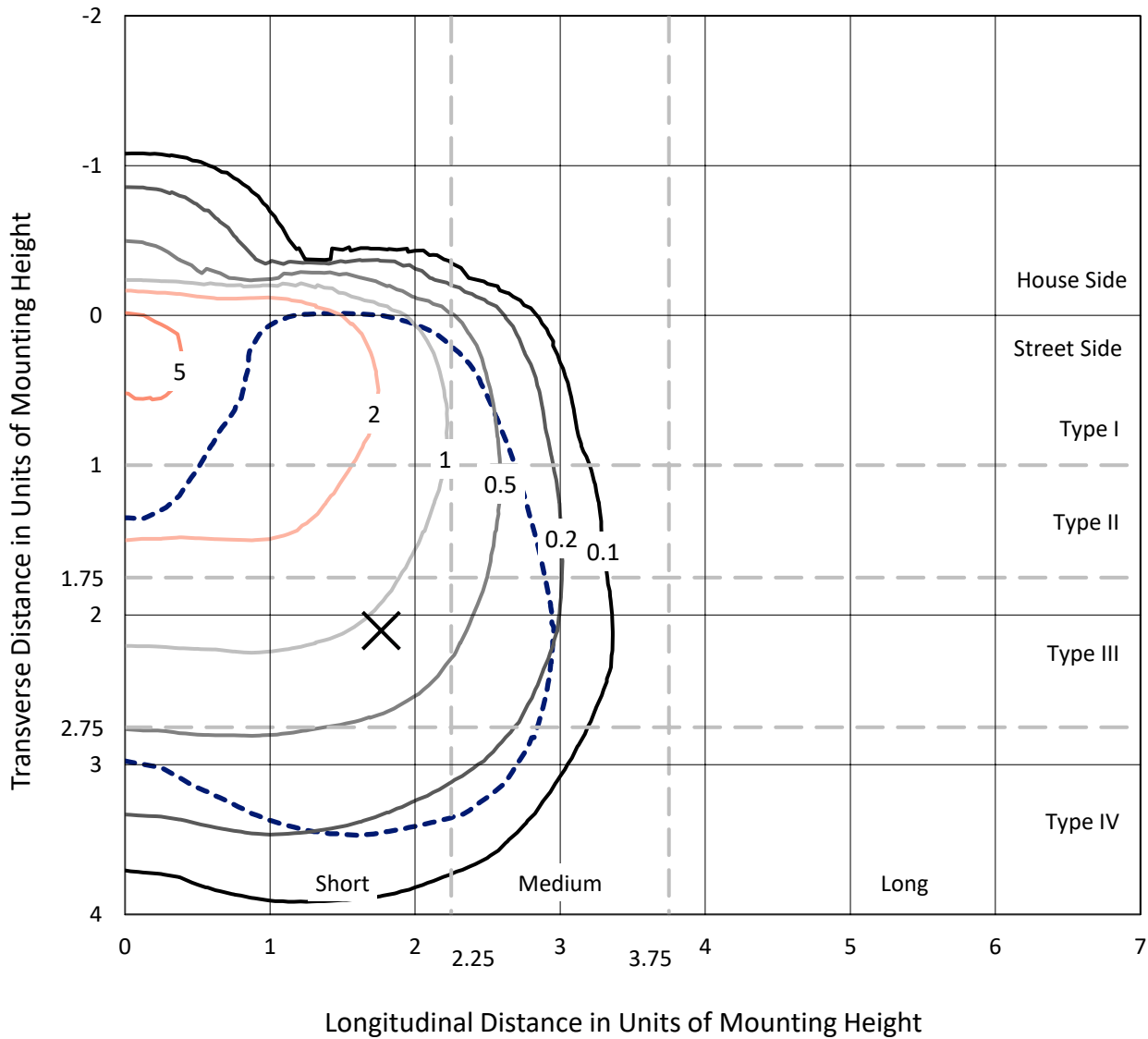
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

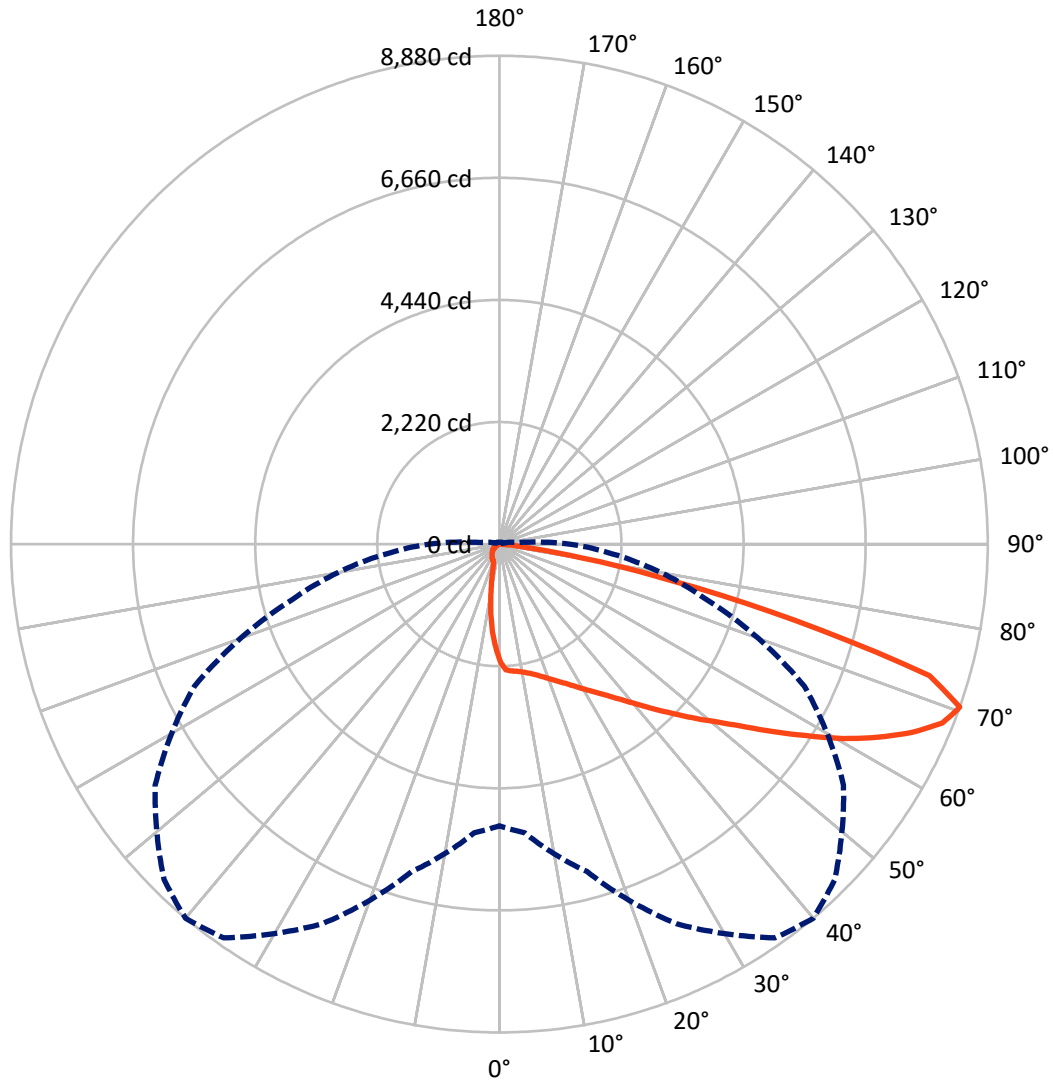
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1030.9	0.0	1030.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	11575.9	0.0	11575.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	12606.8	0.0	12606.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	1.4
10°-20°	458.6	3.6
20°-30°	767.5	6.1
30°-40°	1205.4	9.6
40°-50°	1906.7	15.1
50°-60°	2781.4	22.1
60°-70°	3448.0	27.4
70°-80°	1744.5	13.8
80°-90°	113.9	0.9
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°	12606.8	100.0
0°-180°	12606.8	100.0

Coefficient of Utilization



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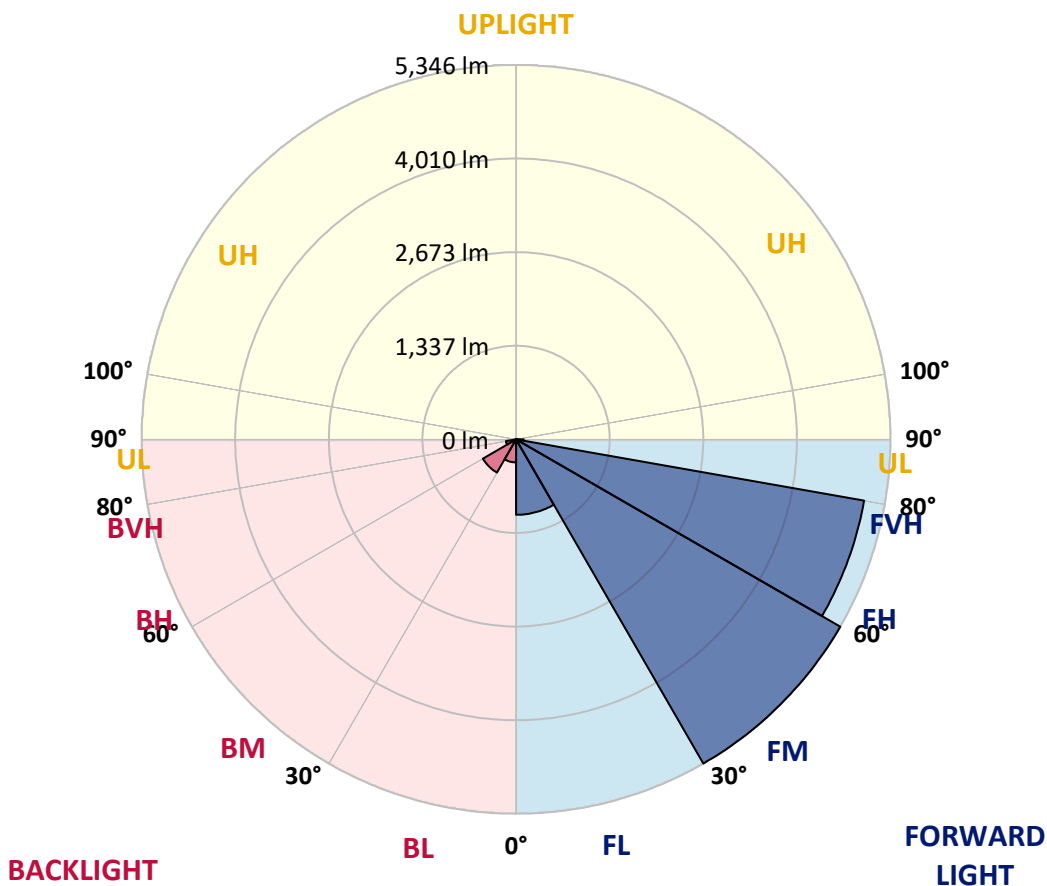
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.7	8.5			
FM (30°-60°)	5346.4	42.4			
FH (60°-80°)	5045.5	40.0			G3/7500
FVH (80°-90°)	106.4	0.8			G2/225
BL (0°-30°)	329.2	2.6	B1/500		
BM (30°-60°)	547.2	4.3	B1/1000		
BH (60°-80°)	147.0	1.2	B1/500		G1/500
BVH (80°-90°)	7.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2
2.5°	2299.8	2307.8	2306.7	2310.1	2302.1	2289.5	2287.2	2270.0	2239.0	2200.0	2156.4
5°	2346.8	2356.0	2349.1	2345.7	2330.8	2317.0	2313.6	2295.2	2259.7	2206.9	2131.2
7.5°	2387.0	2389.3	2384.7	2376.7	2354.9	2336.5	2323.9	2298.7	2256.2	2203.5	2116.3
10°	2393.9	2392.7	2395.0	2396.2	2382.4	2366.3	2356.0	2321.6	2267.7	2211.5	2117.4
12.5°	2385.8	2385.8	2400.7	2418.0	2418.0	2409.9	2399.6	2368.6	2305.5	2239.0	2140.4
15°	2396.2	2399.6	2428.3	2460.4	2470.7	2462.7	2458.1	2426.0	2360.6	2287.2	2181.7
17.5°	2432.9	2436.3	2482.2	2530.4	2543.0	2533.8	2524.6	2492.5	2422.5	2342.2	2228.7
20°	2486.8	2496.0	2554.4	2616.4	2627.9	2616.4	2598.0	2553.3	2483.3	2401.9	2273.4
22.5°	2585.4	2591.2	2654.2	2719.6	2725.4	2707.0	2679.5	2617.5	2544.1	2465.0	2323.9
25°	2716.2	2724.2	2787.3	2850.4	2835.5	2807.9	2770.1	2700.1	2616.4	2539.5	2388.1
27.5°	2872.2	2881.4	2943.3	2998.4	2959.4	2927.2	2884.8	2797.6	2712.7	2642.8	2470.7
30°	3040.8	3048.8	3103.9	3153.2	3101.6	3063.7	3013.3	2923.8	2837.8	2785.0	2587.7
32.5°	3203.7	3202.5	3255.3	3295.4	3242.7	3212.8	3167.0	3076.4	3007.5	2984.6	2762.1
35°	3355.1	3355.1	3398.7	3438.8	3401.0	3384.9	3342.5	3270.2	3231.2	3258.7	2994.9
37.5°	3507.6	3499.6	3540.9	3585.6	3582.2	3583.3	3559.3	3524.8	3527.1	3624.6	3314.9
40°	3633.8	3630.4	3678.5	3737.0	3782.9	3819.6	3804.7	3817.3	3889.6	4072.0	3724.4
42.5°	3734.8	3742.8	3804.7	3897.6	4013.5	4088.0	4098.4	4150.0	4335.8	4618.0	4186.7
45°	3850.6	3851.7	3937.8	4080.0	4264.7	4382.8	4424.1	4557.2	4821.0	5184.6	4693.7
47.5°	3992.8	3979.1	4075.4	4275.0	4542.3	4716.6	4790.0	4956.3	5364.7	5737.5	5106.6
50°	4150.0	4124.7	4233.7	4505.6	4853.1	5071.0	5220.2	5463.3	5903.8	6191.7	5414.0
52.5°	4332.4	4308.3	4432.1	4770.5	5225.9	5490.9	5682.4	5927.9	6366.1	6538.1	5597.5
55°	4564.1	4540.0	4670.7	5088.3	5666.4	6010.5	6211.2	6417.7	6796.2	6793.9	5730.6
57.5°	4821.0	4787.7	4969.0	5489.7	6215.8	6573.7	6777.8	6878.8	7123.1	6992.3	5820.1
60°	5115.8	5086.0	5337.2	5968.0	6850.1	7181.6	7310.1	7268.8	7391.5	7109.3	5789.1
62.5°	5381.9	5368.1	5680.1	6475.0	7454.6	7734.5	7770.0	7589.9	7588.8	7111.6	5580.3
65°	5658.3	5684.7	6148.1	7058.9	8062.5	8250.6	8189.8	7908.8	7667.9	6830.6	4963.2
67.5°	5761.6	5838.4	6456.7	7586.5	8542.0	8688.8	8582.1	8068.3	7338.7	5885.4	3779.5
70°	5123.8	5268.3	6165.3	7616.3	8740.4	8880.4	8624.6	7639.3	6118.3	3898.8	2070.4
72.5°	3896.5	4065.1	5137.6	6236.4	7860.6	8179.5	7742.5	6223.8	3943.5	1707.9	695.1
75°	2180.5	2362.9	3826.5	4696.0	5277.5	5568.9	5408.3	3992.8	1746.9	446.2	207.6
77.5°	737.5	798.3	1780.2	2905.4	3483.5	3222.0	2727.7	1983.2	642.3	169.8	110.1
80°	437.0	460.0	663.0	1446.4	1833.0	1519.8	1199.8	733.0	326.9	90.6	76.9
82.5°	130.8	154.8	365.9	536.8	718.0	447.3	378.5	418.7	169.8	49.3	64.2
85°	0.0	0.0	78.0	166.3	188.1	73.4	73.4	237.4	31.0	20.6	47.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.7	3.4	4.6	10.3
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°	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2
2.5°	2125.5	2085.3	2038.3	1993.5	1951.1	1896.1	1869.7	1837.6	1810.0	1795.1	1803.1
5°	2083.0	2019.9	1923.6	1826.1	1727.4	1634.5	1550.8	1494.6	1444.1	1417.7	1423.5
7.5°	2046.3	1961.4	1811.2	1651.7	1493.4	1334.0	1204.4	1103.4	1025.5	993.3	987.6
10°	2030.3	1923.6	1711.4	1482.0	1238.8	1024.3	840.8	729.5	650.4	611.4	618.3
12.5°	2038.3	1904.1	1626.5	1315.7	1000.2	750.2	574.7	470.3	414.1	391.1	385.4
15°	2061.2	1899.5	1550.8	1145.9	772.0	524.2	396.9	354.4	343.0	340.7	340.7
17.5°	2087.6	1900.6	1472.8	973.8	586.1	388.8	339.5	331.5	328.1	325.8	326.9
20°	2114.0	1900.6	1383.3	799.5	440.5	336.1	323.5	317.7	314.3	313.1	313.1
22.5°	2146.1	1900.6	1283.5	637.8	353.3	318.9	308.6	305.1	301.7	300.5	299.4
25°	2185.1	1901.8	1173.4	499.0	321.2	304.0	295.9	292.5	289.1	286.8	286.8
27.5°	2241.3	1911.0	1051.8	388.8	302.8	290.2	283.3	279.9	276.4	273.0	273.0
30°	2322.7	1933.9	915.3	321.2	285.6	275.3	268.4	266.1	262.7	259.2	258.1
32.5°	2444.3	1974.0	774.2	287.9	269.6	259.2	251.2	248.9	245.5	242.0	240.9
35°	2614.1	2047.5	636.6	267.3	248.9	238.6	234.0	232.8	228.3	224.8	224.8
37.5°	2863.0	2166.8	504.7	246.6	231.7	223.7	217.9	215.6	211.1	207.6	206.5
40°	3167.0	2321.6	392.3	230.6	215.6	207.6	201.9	198.4	192.7	188.1	185.8
42.5°	3554.7	2510.9	309.7	213.3	200.7	192.7	188.1	181.2	173.2	166.3	165.2
45°	3958.4	2705.9	255.8	197.3	187.0	180.1	174.3	165.2	153.7	145.7	143.4
47.5°	4268.1	2827.4	223.7	180.1	172.1	166.3	159.4	148.0	134.2	125.0	122.7
50°	4489.5	2845.8	199.6	164.0	159.4	153.7	143.4	129.6	114.7	105.5	103.2
52.5°	4598.5	2763.2	180.1	149.1	145.7	139.9	127.3	112.4	96.4	87.2	84.9
55°	4647.8	2607.2	161.7	136.5	131.9	125.0	111.3	95.2	79.1	71.1	68.8
57.5°	4628.3	2376.7	145.7	123.9	118.1	110.1	95.2	78.0	65.4	57.4	56.2
60°	4483.8	2053.2	129.6	111.3	104.4	95.2	80.3	64.2	52.8	47.0	45.9
62.5°	4171.8	1651.7	113.6	96.4	91.8	82.6	68.8	52.8	43.6	40.1	39.0
65°	3532.9	1167.7	97.5	81.4	79.1	70.0	57.4	43.6	37.9	35.6	34.4
67.5°	2539.5	710.0	82.6	70.0	67.7	59.6	48.2	37.9	34.4	33.3	33.3
70°	1276.7	336.1	65.4	57.4	57.4	49.3	41.3	34.4	33.3	32.1	32.1
72.5°	433.6	143.4	49.3	44.7	47.0	42.4	35.6	32.1	32.1	32.1	32.1
75°	148.0	75.7	34.4	32.1	34.4	34.4	31.0	31.0	32.1	32.1	32.1
77.5°	96.4	50.5	24.1	21.8	26.4	26.4	26.4	28.7	31.0	31.0	31.0
80°	79.1	27.5	16.1	14.9	19.5	19.5	21.8	26.4	28.7	28.7	28.7
82.5°	67.7	17.2	9.2	10.3	13.8	14.9	18.4	21.8	25.2	26.4	26.4
85°	45.9	9.2	6.9	8.0	9.2	11.5	14.9	18.4	20.6	22.9	22.9
87.5°	12.6	3.4	4.6	5.7	5.7	8.0	11.5	13.8	16.1	17.2	17.2
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)