

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: P633252

Luminaire Tested: GWS-SA2E-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633252
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-SA2E-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: 11338.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

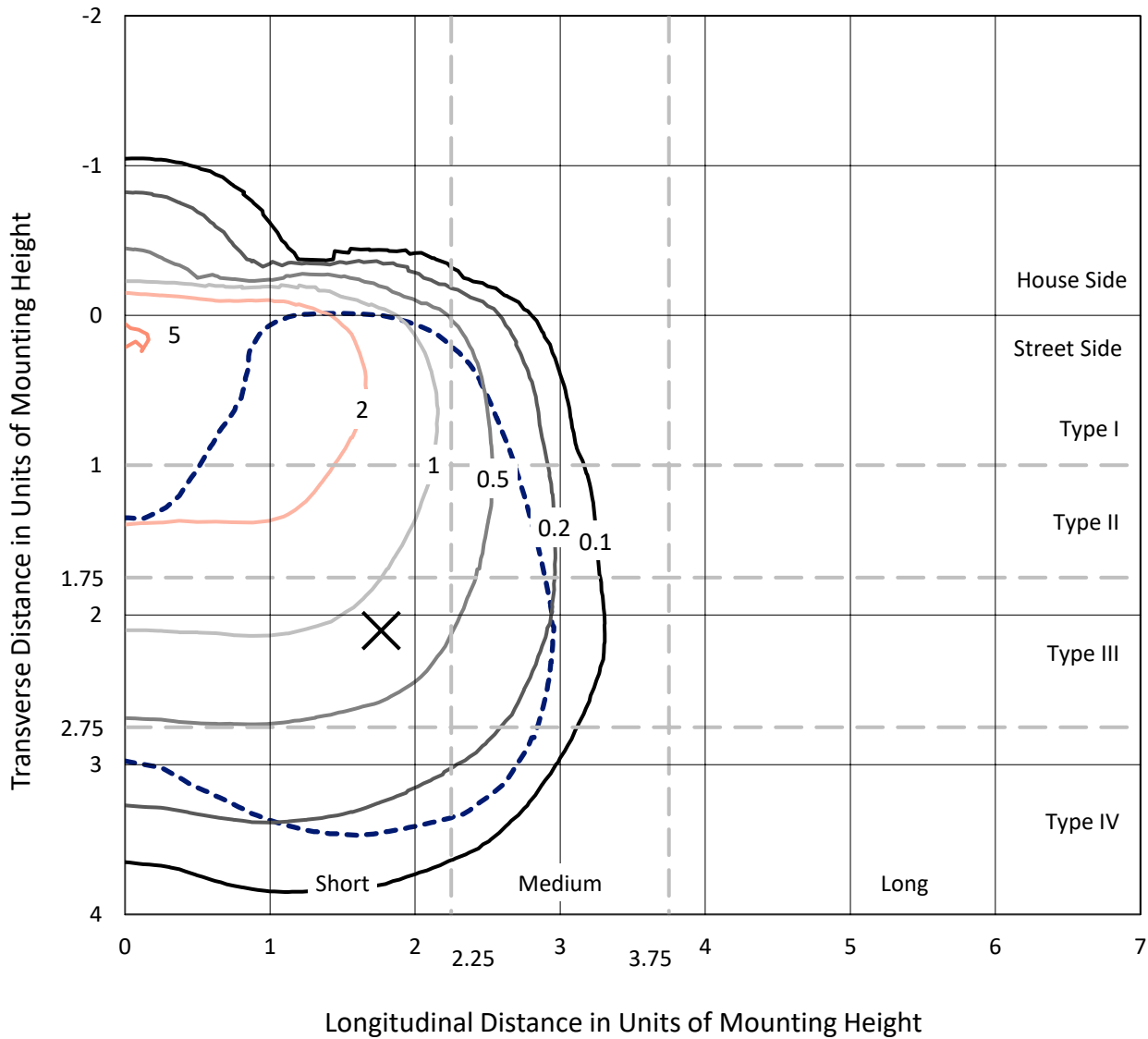
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

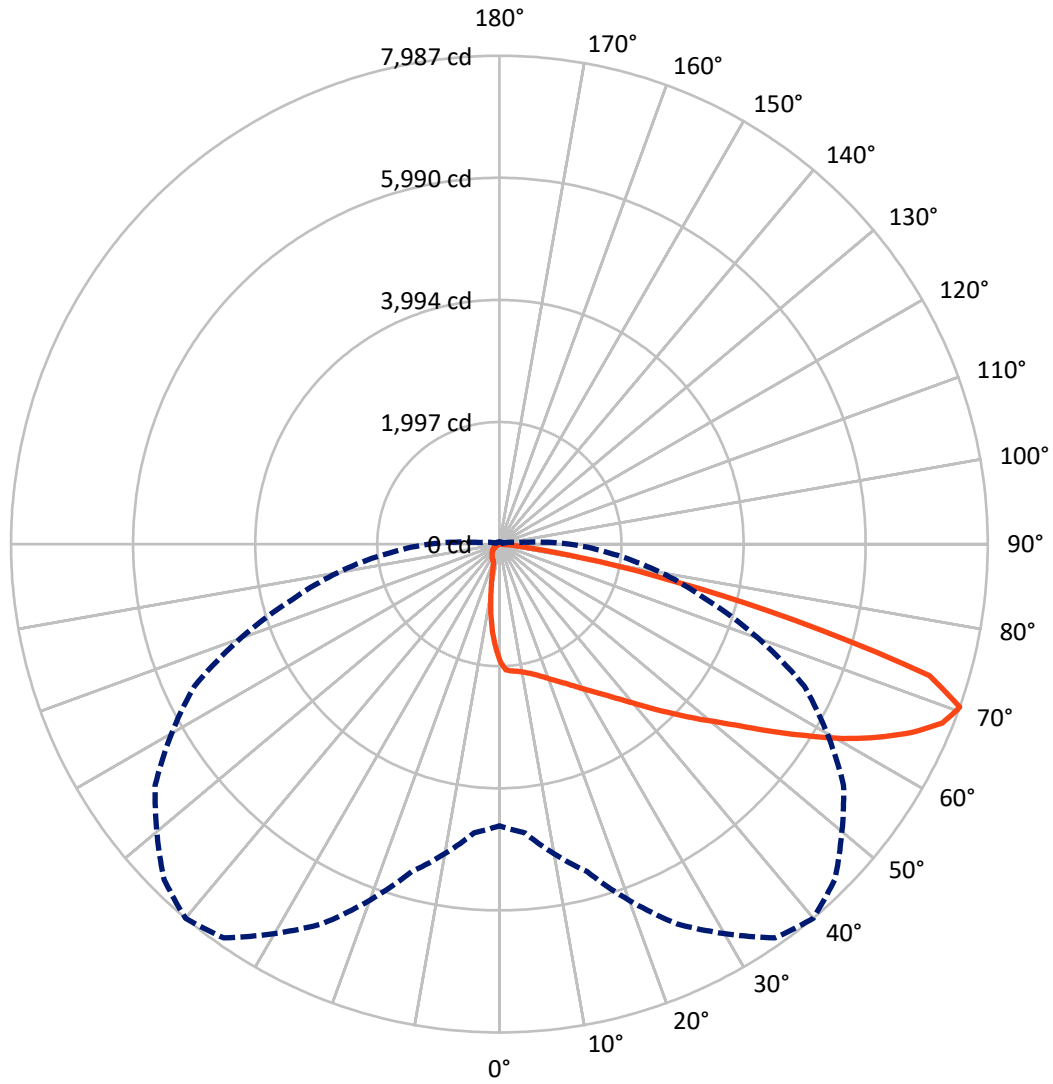
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	927.2	0.0	927.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10411.7	0.0	10411.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	11338.9	0.0	11338.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	1.4
10°-20°	412.4	3.6
20°-30°	690.3	6.1
30°-40°	1084.2	9.6
40°-50°	1715.0	15.1
50°-60°	2501.7	22.1
60°-70°	3101.2	27.4
70°-80°	1569.0	13.8
80°-90°	102.4	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°	11338.9	100.0
0°-180°	11338.9	100.0

Coefficient of Utilization



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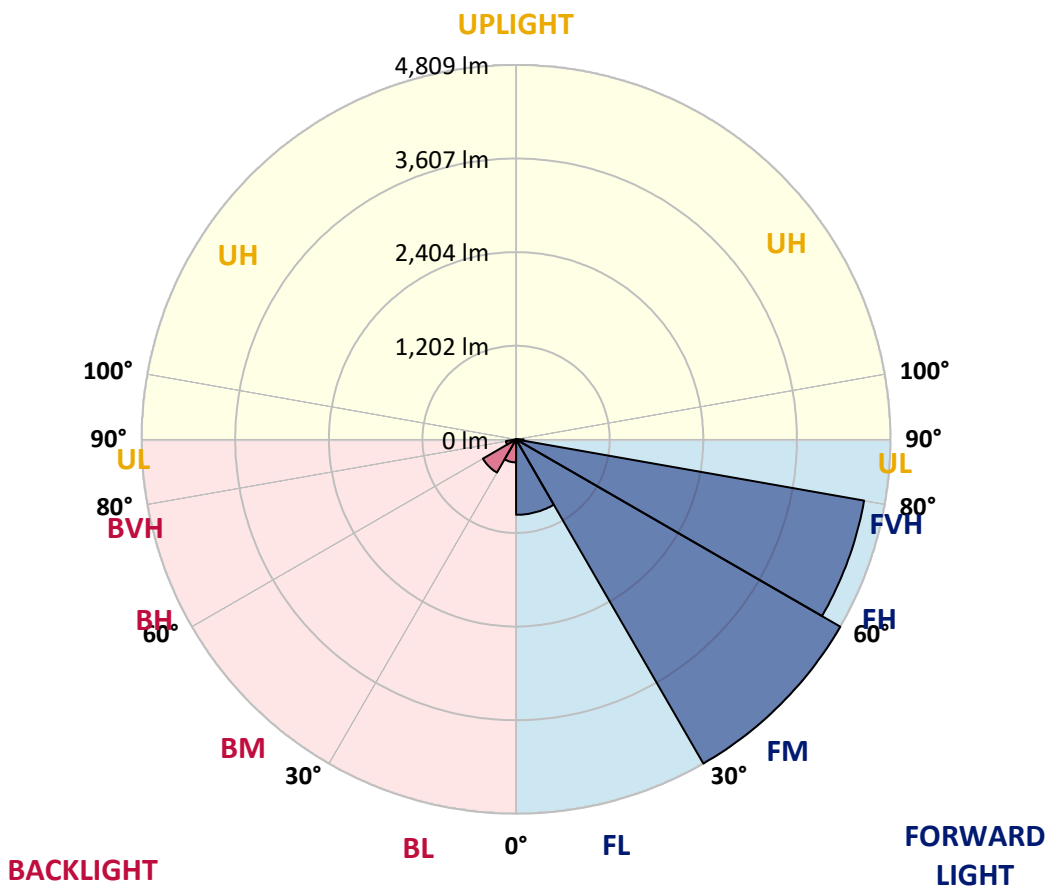
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.3	8.5			
FM (30°-60°)	4808.7	42.4			
FH (60°-80°)	4538.0	40.0			G2/5000
FVH (80°-90°)	95.7	0.8			G1/100
BL (0°-30°)	296.1	2.6	B1/500		
BM (30°-60°)	492.2	4.3	B1/1000		
BH (60°-80°)	132.2	1.2	B1/500		G1/500
BVH (80°-90°)	6.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	2068.5	2075.7	2074.7	2077.8	2070.6	2059.2	2057.2	2041.7	2013.8	1978.8	1939.6
5°	2110.8	2119.1	2112.9	2109.8	2096.4	2084.0	2080.9	2064.4	2032.4	1984.9	1916.9
7.5°	2146.9	2149.0	2144.9	2137.6	2118.0	2101.5	2090.2	2067.5	2029.3	1981.8	1903.4
10°	2153.1	2152.1	2154.1	2155.2	2142.8	2128.3	2119.1	2088.1	2039.6	1989.1	1904.5
12.5°	2145.9	2145.9	2159.3	2174.8	2174.8	2167.6	2158.3	2130.4	2073.7	2013.8	1925.1
15°	2155.2	2158.3	2184.1	2212.9	2222.2	2215.0	2210.9	2182.0	2123.2	2057.2	1962.2
17.5°	2188.2	2191.3	2232.5	2275.9	2287.2	2279.0	2270.7	2241.8	2178.9	2106.7	2004.5
20°	2236.7	2244.9	2297.5	2353.3	2363.6	2353.3	2336.7	2296.5	2233.6	2160.3	2044.8
22.5°	2325.4	2330.6	2387.3	2446.1	2451.3	2434.8	2410.0	2354.3	2288.3	2217.1	2090.2
25°	2443.0	2450.2	2507.0	2563.7	2550.3	2525.5	2491.5	2428.6	2353.3	2284.1	2147.9
27.5°	2583.3	2591.6	2647.3	2696.8	2661.7	2632.8	2594.7	2516.3	2439.9	2377.0	2222.2
30°	2735.0	2742.2	2791.7	2836.1	2789.7	2755.6	2710.2	2629.7	2552.4	2504.9	2327.5
32.5°	2881.5	2880.4	2927.9	2964.0	2916.5	2889.7	2848.5	2767.0	2705.1	2684.4	2484.3
35°	3017.7	3017.7	3056.9	3093.0	3058.9	3044.5	3006.3	2941.3	2906.2	2931.0	2693.7
37.5°	3154.9	3147.6	3184.8	3225.0	3221.9	3223.0	3201.3	3170.3	3172.4	3260.1	2981.5
40°	3268.3	3265.3	3308.6	3361.2	3402.5	3435.5	3422.1	3433.4	3498.4	3662.4	3349.9
42.5°	3359.1	3366.4	3422.1	3505.6	3609.8	3676.9	3686.2	3732.6	3899.7	4153.5	3765.6
45°	3463.3	3464.4	3541.7	3669.7	3835.8	3942.0	3979.2	4098.8	4336.1	4663.2	4221.6
47.5°	3591.3	3578.9	3665.5	3845.1	4085.4	4242.3	4308.3	4457.9	4825.1	5160.4	4593.0
50°	3732.6	3709.9	3807.9	4052.4	4365.0	4561.0	4695.2	4913.9	5310.0	5569.0	4869.5
52.5°	3896.6	3875.0	3986.4	4290.7	4700.3	4938.6	5110.9	5331.7	5725.8	5880.6	5034.6
55°	4105.0	4083.4	4201.0	4576.5	5096.5	5406.0	5586.5	5772.2	6112.7	6110.6	5154.3
57.5°	4336.1	4306.2	4469.2	4937.6	5590.7	5912.5	6096.2	6187.0	6406.7	6289.1	5234.7
60°	4601.3	4574.5	4800.4	5367.8	6161.2	6459.3	6574.9	6537.7	6648.1	6394.3	5206.9
62.5°	4840.6	4828.2	5108.9	5823.8	6704.9	6956.6	6988.6	6826.6	6825.6	6396.4	5019.1
65°	5089.3	5113.0	5529.8	6348.9	7251.6	7420.8	7366.2	7113.4	6896.8	6143.6	4464.1
67.5°	5182.1	5251.2	5807.3	6823.5	7682.9	7814.9	7719.0	7256.8	6600.7	5293.5	3399.4
70°	4608.5	4738.5	5545.3	6850.3	7861.4	7987.2	7757.2	6871.0	5503.0	3506.7	1862.2
72.5°	3504.6	3656.3	4620.9	5609.2	7070.1	7356.9	6963.8	5597.9	3546.9	1536.2	625.2
75°	1961.2	2125.3	3441.7	4223.7	4746.7	5008.8	4864.4	3591.3	1571.2	401.3	186.7
77.5°	663.4	718.0	1601.2	2613.2	3133.2	2898.0	2453.3	1783.8	577.7	152.7	99.0
80°	393.1	413.7	596.3	1300.9	1648.6	1367.0	1079.1	659.2	294.0	81.5	69.1
82.5°	117.6	139.3	329.1	482.8	645.8	402.4	340.5	376.6	152.7	44.4	57.8
85°	0.0	0.0	70.2	149.6	169.2	66.0	66.0	213.6	27.9	18.6	42.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.2	3.1	4.1	9.3
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°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	1911.7	1875.6	1833.3	1793.1	1754.9	1705.4	1681.6	1652.7	1628.0	1614.6	1621.8
5°	1873.5	1816.8	1730.1	1642.4	1553.7	1470.1	1394.8	1344.3	1298.9	1275.2	1280.3
7.5°	1840.5	1764.2	1629.0	1485.6	1343.2	1199.8	1083.3	992.5	922.3	893.4	888.3
10°	1826.1	1730.1	1539.3	1332.9	1114.2	921.3	756.2	656.1	585.0	549.9	556.1
12.5°	1833.3	1712.6	1462.9	1183.3	899.6	674.7	516.9	423.0	372.4	351.8	346.6
15°	1853.9	1708.5	1394.8	1030.6	694.3	471.5	357.0	318.8	308.5	306.4	306.4
17.5°	1877.6	1709.5	1324.7	875.9	527.2	349.7	305.4	298.2	295.1	293.0	294.0
20°	1901.4	1709.5	1244.2	719.1	396.2	302.3	290.9	285.8	282.7	281.6	281.6
22.5°	1930.3	1709.5	1154.4	573.6	317.8	286.8	277.5	274.4	271.3	270.3	269.3
25°	1965.3	1710.5	1055.4	448.8	288.9	273.4	266.2	263.1	260.0	257.9	257.9
27.5°	2015.9	1718.8	946.0	349.7	272.4	261.0	254.8	251.7	248.6	245.5	245.5
30°	2089.1	1739.4	823.3	288.9	256.9	247.6	241.4	239.3	236.3	233.2	232.1
32.5°	2198.5	1775.5	696.4	259.0	242.4	233.2	225.9	223.9	220.8	217.7	216.7
35°	2351.2	1841.5	572.6	240.4	223.9	214.6	210.5	209.4	205.3	202.2	202.2
37.5°	2575.1	1948.8	453.9	221.8	208.4	201.2	196.0	194.0	189.8	186.7	185.7
40°	2848.5	2088.1	352.8	207.4	194.0	186.7	181.6	178.5	173.3	169.2	167.1
42.5°	3197.2	2258.3	278.6	191.9	180.5	173.3	169.2	163.0	155.8	149.6	148.6
45°	3560.3	2433.7	230.1	177.4	168.2	162.0	156.8	148.6	138.2	131.0	129.0
47.5°	3838.9	2543.1	201.2	162.0	154.8	149.6	143.4	133.1	120.7	112.5	110.4
50°	4038.0	2559.6	179.5	147.5	143.4	138.2	129.0	116.6	103.2	94.9	92.9
52.5°	4136.0	2485.3	162.0	134.1	131.0	125.9	114.5	101.1	86.7	78.4	76.3
55°	4180.4	2345.0	145.5	122.8	118.6	112.5	100.1	85.6	71.2	64.0	61.9
57.5°	4162.8	2137.6	131.0	111.4	106.3	99.0	85.6	70.2	58.8	51.6	50.6
60°	4032.8	1846.7	116.6	100.1	93.9	85.6	72.2	57.8	47.5	42.3	41.3
62.5°	3752.2	1485.6	102.1	86.7	82.5	74.3	61.9	47.5	39.2	36.1	35.1
65°	3177.6	1050.2	87.7	73.2	71.2	62.9	51.6	39.2	34.0	32.0	31.0
67.5°	2284.1	638.6	74.3	62.9	60.9	53.6	43.3	34.0	31.0	29.9	29.9
70°	1148.3	302.3	58.8	51.6	51.6	44.4	37.1	31.0	29.9	28.9	28.9
72.5°	390.0	129.0	44.4	40.2	42.3	38.2	32.0	28.9	28.9	28.9	28.9
75°	133.1	68.1	31.0	28.9	31.0	31.0	27.9	27.9	28.9	28.9	28.9
77.5°	86.7	45.4	21.7	19.6	23.7	23.7	23.7	25.8	27.9	27.9	27.9
80°	71.2	24.8	14.4	13.4	17.5	17.5	19.6	23.7	25.8	25.8	25.8
82.5°	60.9	15.5	8.3	9.3	12.4	13.4	16.5	19.6	22.7	23.7	23.7
85°	41.3	8.3	6.2	7.2	8.3	10.3	13.4	16.5	18.6	20.6	20.6
87.5°	11.3	3.1	4.1	5.2	5.2	7.2	10.3	12.4	14.4	15.5	15.5
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)