

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: P636772

Luminaire Tested: GWS-SA4B-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636772
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-SA4B-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11404.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

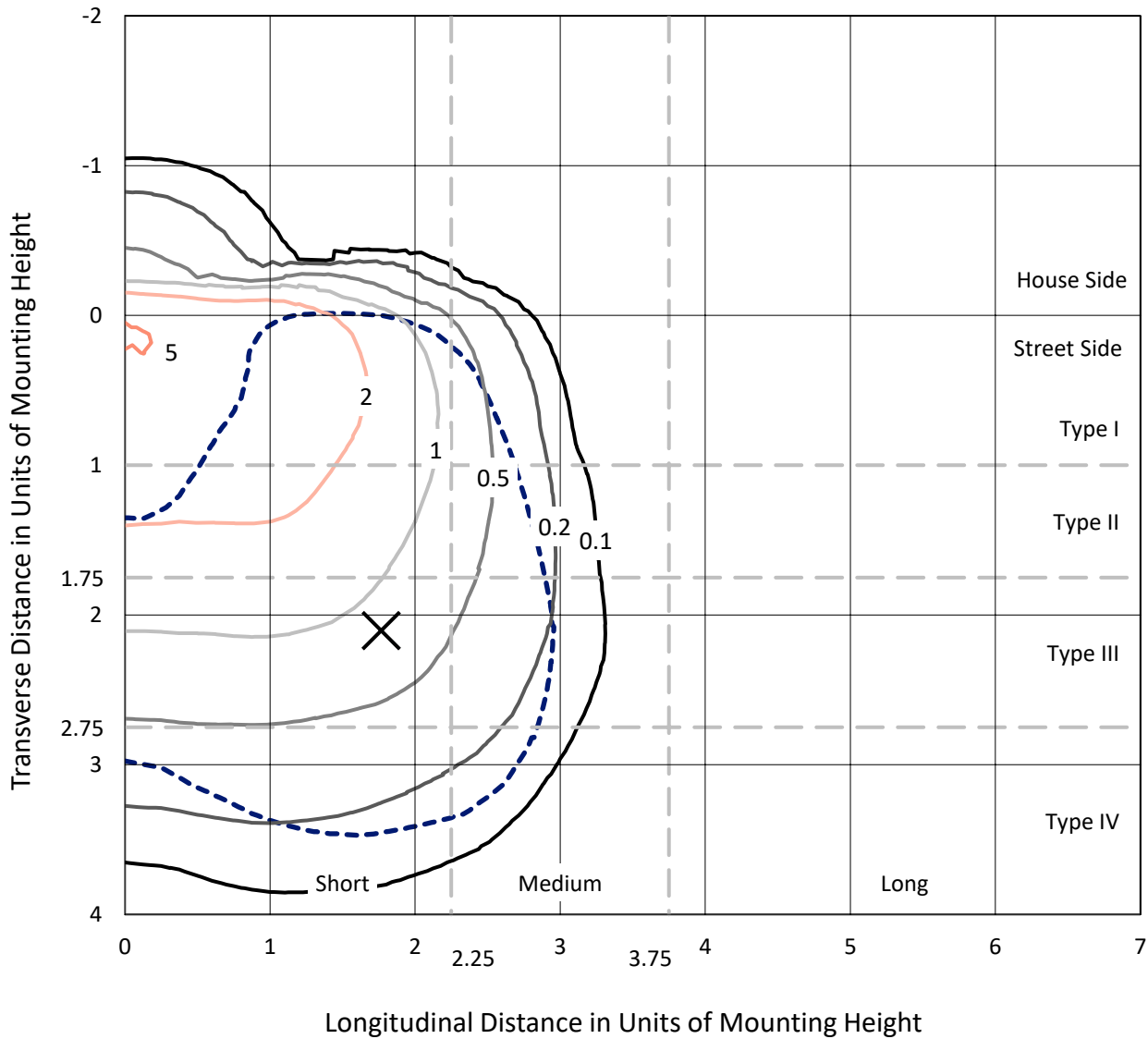
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

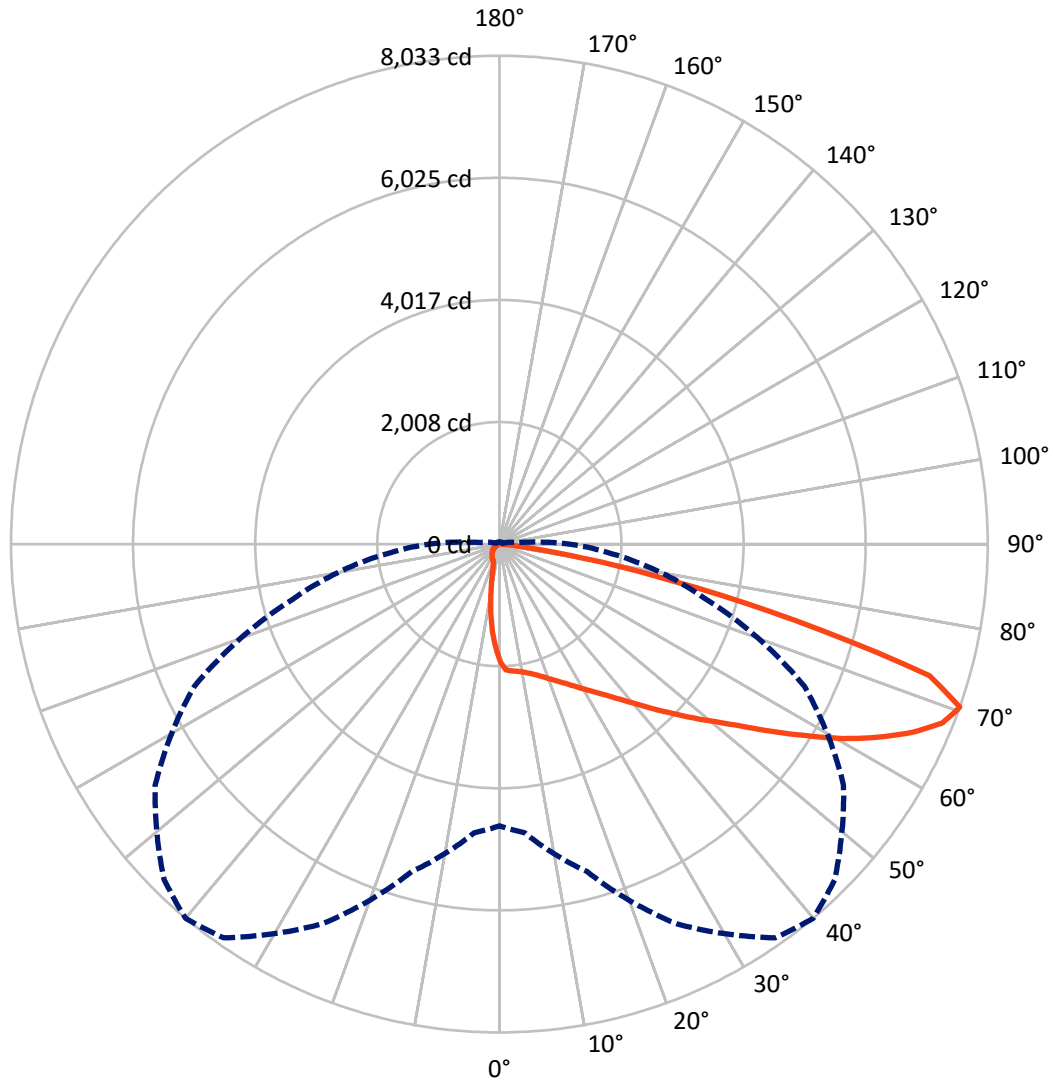
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	932.6	0.0	932.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10471.9	0.0	10471.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	11404.5	0.0	11404.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.4
10°-20°	414.8	3.6
20°-30°	694.3	6.1
30°-40°	1090.5	9.6
40°-50°	1724.9	15.1
50°-60°	2516.2	22.1
60°-70°	3119.1	27.4
70°-80°	1578.1	13.8
80°-90°	103.0	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°	11404.5	100.0
0°-180°	11404.5	100.0

Coefficient of Utilization



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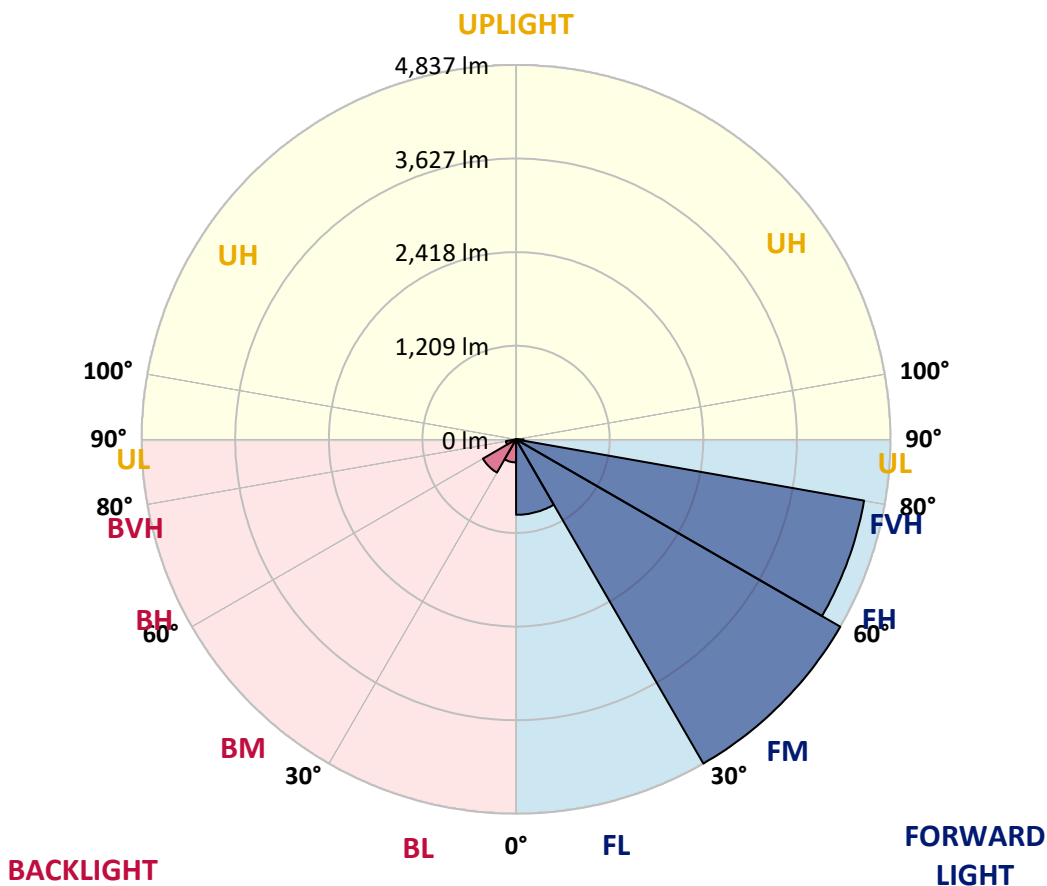
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.9	8.5			
FM (30°-60°)	4836.5	42.4			
FH (60°-80°)	4564.3	40.0			G2/5000
FVH (80°-90°)	96.2	0.8			G1/100
BL (0°-30°)	297.8	2.6	B1/500		
BM (30°-60°)	495.0	4.3	B1/1000		
BH (60°-80°)	133.0	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°	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	2080.5	2087.7	2086.7	2089.8	2082.6	2071.1	2069.1	2053.5	2025.5	1990.2	1950.8
5°	2123.0	2131.3	2125.1	2122.0	2108.5	2096.0	2092.9	2076.3	2044.2	1996.4	1927.9
7.5°	2159.3	2161.4	2157.3	2150.0	2130.3	2113.7	2102.3	2079.4	2041.0	1993.3	1914.5
10°	2165.6	2164.5	2166.6	2167.6	2155.2	2140.7	2131.3	2100.2	2051.4	2000.6	1915.5
12.5°	2158.3	2158.3	2171.8	2187.4	2187.4	2180.1	2170.8	2142.7	2085.7	2025.5	1936.2
15°	2167.6	2170.8	2196.7	2225.7	2235.1	2227.8	2223.7	2194.6	2135.5	2069.1	1973.6
17.5°	2200.8	2204.0	2245.5	2289.0	2300.5	2292.2	2283.9	2254.8	2191.5	2118.9	2016.1
20°	2249.6	2257.9	2310.8	2366.9	2377.2	2366.9	2350.3	2309.8	2246.5	2172.8	2056.6
22.5°	2338.9	2344.0	2401.1	2460.3	2465.4	2448.8	2423.9	2367.9	2301.5	2229.9	2102.3
25°	2457.1	2464.4	2521.5	2578.5	2565.1	2540.2	2505.9	2442.6	2366.9	2297.3	2160.4
27.5°	2598.3	2606.6	2662.6	2712.4	2677.1	2648.1	2609.7	2530.8	2454.0	2390.7	2235.1
30°	2750.8	2758.1	2807.9	2852.5	2805.8	2771.5	2725.9	2645.0	2567.1	2519.4	2340.9
32.5°	2898.1	2897.1	2944.8	2981.2	2933.4	2906.4	2864.9	2783.0	2720.7	2700.0	2498.6
35°	3035.1	3035.1	3074.5	3110.9	3076.6	3062.1	3023.7	2958.3	2923.0	2947.9	2709.3
37.5°	3173.1	3165.9	3203.2	3243.7	3240.6	3241.6	3219.8	3188.7	3190.8	3279.0	2998.8
40°	3287.3	3284.1	3327.7	3380.6	3422.2	3455.4	3441.9	3453.3	3518.7	3683.6	3369.2
42.5°	3378.6	3385.8	3441.9	3525.9	3630.7	3698.2	3707.5	3754.2	3922.3	4177.6	3787.4
45°	3483.4	3484.4	3562.2	3690.9	3858.0	3964.8	4002.2	4122.6	4361.2	4690.2	4246.0
47.5°	3612.0	3599.6	3686.8	3867.3	4109.1	4266.8	4333.2	4483.7	4853.1	5190.3	4619.6
50°	3754.2	3731.4	3829.9	4075.9	4390.3	4587.4	4722.3	4942.3	5340.8	5601.2	4897.7
52.5°	3919.2	3897.4	4009.5	4315.6	4727.5	4967.2	5140.5	5362.5	5758.9	5914.6	5063.7
55°	4128.8	4107.0	4225.3	4603.0	5126.0	5437.3	5618.8	5805.6	6148.0	6146.0	5184.1
57.5°	4361.2	4331.1	4495.1	4966.2	5623.0	5946.7	6131.4	6222.8	6443.8	6325.5	5265.0
60°	4627.9	4600.9	4828.2	5398.9	6196.8	6496.7	6612.9	6575.6	6686.6	6431.3	5237.0
62.5°	4868.6	4856.2	5138.4	5857.5	6743.7	6996.8	7029.0	6866.1	6865.1	6433.4	5048.1
65°	5118.7	5142.6	5561.8	6385.7	7293.6	7463.8	7408.8	7154.6	6936.7	6179.2	4489.9
67.5°	5212.1	5281.6	5840.9	6863.0	7727.3	7860.2	7763.7	7298.8	6638.8	5324.2	3419.0
70°	4635.2	4765.9	5577.3	6890.0	7906.9	8033.4	7802.0	6910.7	5534.8	3527.0	1872.9
72.5°	3524.9	3677.4	4647.6	5641.7	7111.0	7399.4	7004.1	5630.3	3567.4	1545.1	628.8
75°	1972.6	2137.5	3461.6	4248.1	4774.2	5037.8	4892.5	3612.0	1580.3	403.6	187.8
77.5°	667.2	722.2	1610.4	2628.4	3151.3	2914.7	2467.5	1794.1	581.1	153.6	99.6
80°	395.3	416.1	599.8	1308.5	1658.2	1374.9	1085.4	663.1	295.7	82.0	69.5
82.5°	118.3	140.1	331.0	485.6	649.6	404.7	342.4	378.7	153.6	44.6	58.1
85°	0.0	0.0	70.6	150.5	170.2	66.4	66.4	214.8	28.0	18.7	42.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.2	3.1	4.2	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°	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	1922.8	1886.4	1843.9	1803.4	1765.0	1715.2	1691.4	1662.3	1637.4	1623.9	1631.2
5°	1884.4	1827.3	1740.1	1651.9	1562.7	1478.6	1402.9	1352.1	1306.4	1282.5	1287.7
7.5°	1851.2	1774.4	1638.4	1494.2	1351.0	1206.8	1089.5	998.2	927.7	898.6	893.4
10°	1836.6	1740.1	1548.2	1340.6	1120.7	926.6	760.6	659.9	588.3	553.1	559.3
12.5°	1843.9	1722.5	1471.4	1190.2	904.8	678.6	519.9	425.4	374.6	353.8	348.6
15°	1864.6	1718.3	1402.9	1036.6	698.3	474.2	359.0	320.6	310.3	308.2	308.2
17.5°	1888.5	1719.4	1332.3	881.0	530.2	351.8	307.1	299.9	296.8	294.7	295.7
20°	1912.4	1719.4	1251.4	723.2	398.5	304.0	292.6	287.4	284.3	283.3	283.3
22.5°	1941.4	1719.4	1161.1	576.9	319.6	288.5	279.1	276.0	272.9	271.9	270.8
25°	1976.7	1720.4	1061.5	451.4	290.5	275.0	267.7	264.6	261.5	259.4	259.4
27.5°	2027.6	1728.7	951.5	351.8	273.9	262.5	256.3	253.2	250.1	247.0	247.0
30°	2101.2	1749.5	828.0	290.5	258.4	249.0	242.8	240.7	237.6	234.5	233.5
32.5°	2211.2	1785.8	700.4	260.4	243.8	234.5	227.2	225.2	222.1	218.9	217.9
35°	2364.8	1852.2	575.9	241.8	225.2	215.8	211.7	210.6	206.5	203.4	203.4
37.5°	2590.0	1960.1	456.6	223.1	209.6	202.3	197.2	195.1	190.9	187.8	186.8
40°	2864.9	2100.2	354.9	208.6	195.1	187.8	182.6	179.5	174.3	170.2	168.1
42.5°	3215.7	2271.4	280.2	193.0	181.6	174.3	170.2	163.9	156.7	150.5	149.4
45°	3580.9	2447.8	231.4	178.5	169.1	162.9	157.7	149.4	139.0	131.8	129.7
47.5°	3861.1	2557.8	202.3	162.9	155.6	150.5	144.2	133.9	121.4	113.1	111.0
50°	4061.3	2574.4	180.6	148.4	144.2	139.0	129.7	117.3	103.8	95.5	93.4
52.5°	4159.9	2499.7	162.9	134.9	131.8	126.6	115.2	101.7	87.2	78.9	76.8
55°	4204.5	2358.6	146.3	123.5	119.3	113.1	100.7	86.1	71.6	64.3	62.3
57.5°	4186.9	2150.0	131.8	112.1	106.9	99.6	86.1	70.6	59.1	51.9	50.8
60°	4056.2	1857.4	117.3	100.7	94.4	86.1	72.6	58.1	47.7	42.5	41.5
62.5°	3773.9	1494.2	102.7	87.2	83.0	74.7	62.3	47.7	39.4	36.3	35.3
65°	3195.9	1056.3	88.2	73.7	71.6	63.3	51.9	39.4	34.2	32.2	31.1
67.5°	2297.3	642.3	74.7	63.3	61.2	54.0	43.6	34.2	31.1	30.1	30.1
70°	1154.9	304.0	59.1	51.9	51.9	44.6	37.4	31.1	30.1	29.1	29.1
72.5°	392.2	129.7	44.6	40.5	42.5	38.4	32.2	29.1	29.1	29.1	29.1
75°	133.9	68.5	31.1	29.1	31.1	31.1	28.0	28.0	29.1	29.1	29.1
77.5°	87.2	45.7	21.8	19.7	23.9	23.9	23.9	25.9	28.0	28.0	28.0
80°	71.6	24.9	14.5	13.5	17.6	17.6	19.7	23.9	25.9	25.9	25.9
82.5°	61.2	15.6	8.3	9.3	12.5	13.5	16.6	19.7	22.8	23.9	23.9
85°	41.5	8.3	6.2	7.3	8.3	10.4	13.5	16.6	18.7	20.8	20.8
87.5°	11.4	3.1	4.2	5.2	5.2	7.3	10.4	12.5	14.5	15.6	15.6
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)