

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: P639027

Luminaire Tested: GWS-SA5B-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639027
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-SA5B-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10305 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

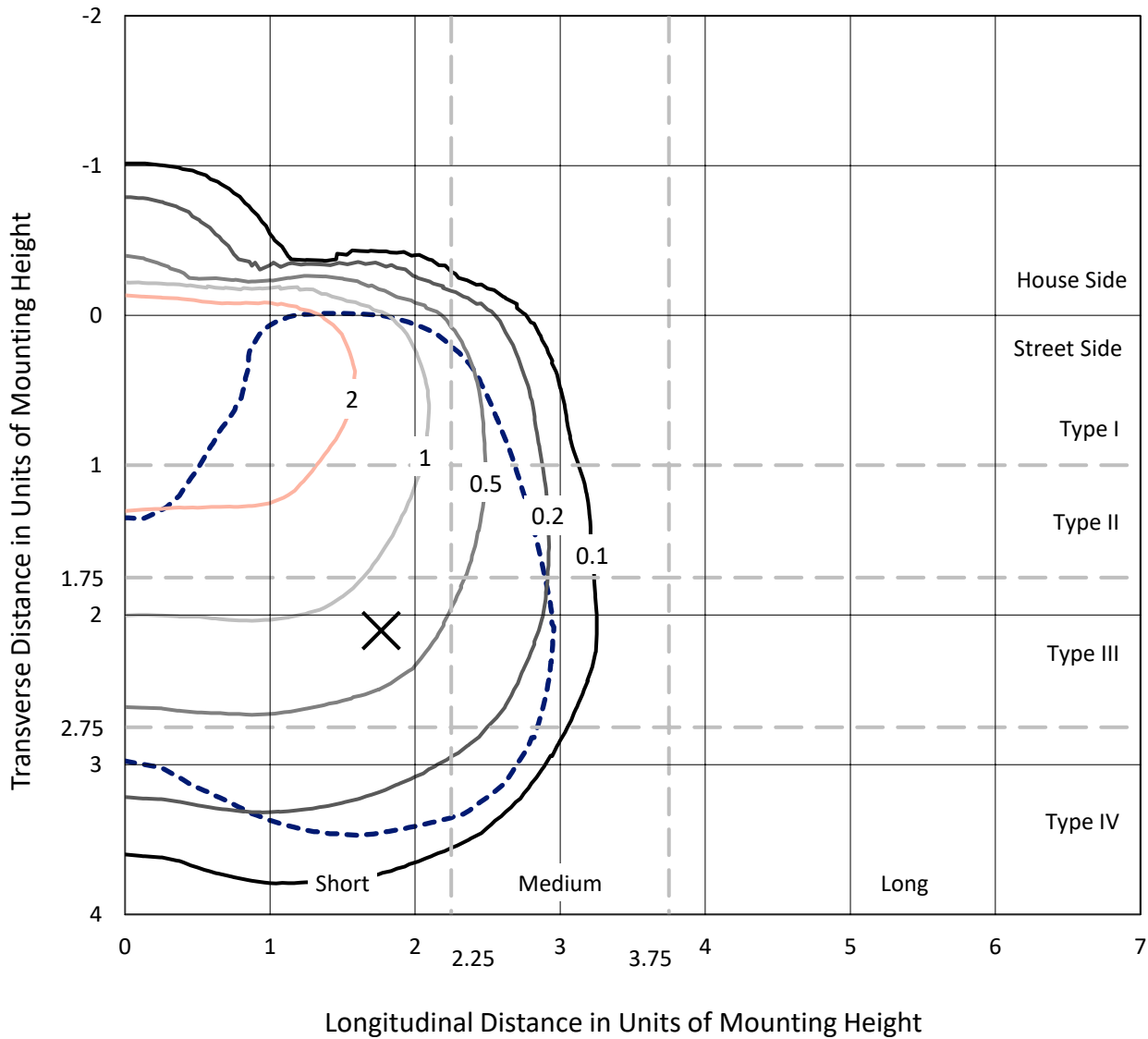
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

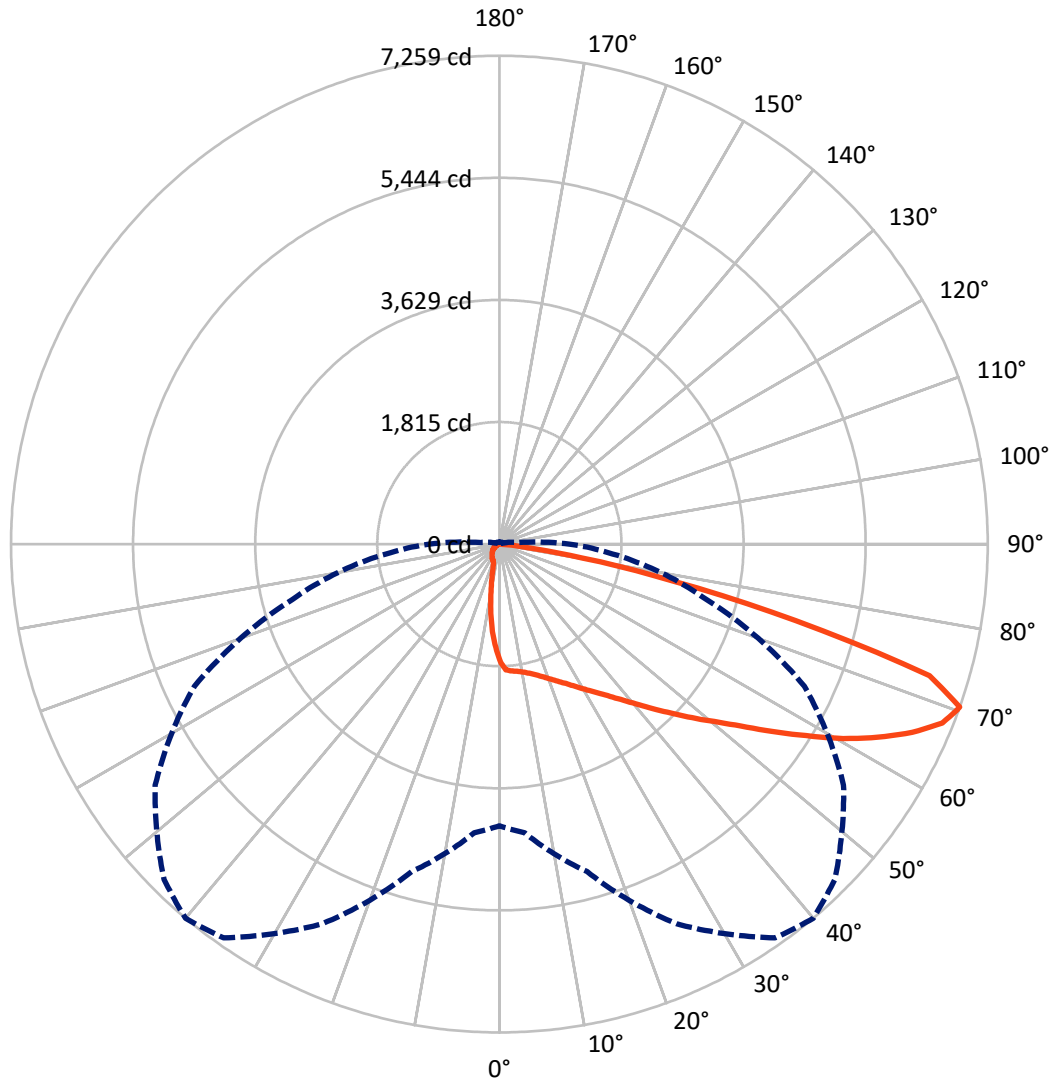
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	842.7	0.0	842.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	9462.3	0.0	9462.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	10305.0	0.0	10305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.4
10°-20°	374.8	3.6
20°-30°	627.4	6.1
30°-40°	985.3	9.6
40°-50°	1558.6	15.1
50°-60°	2273.6	22.1
60°-70°	2818.4	27.4
70°-80°	1426.0	13.8
80°-90°	93.1	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°	10305.0	100.0
0°-180°	10305.0	100.0

Coefficient of Utilization



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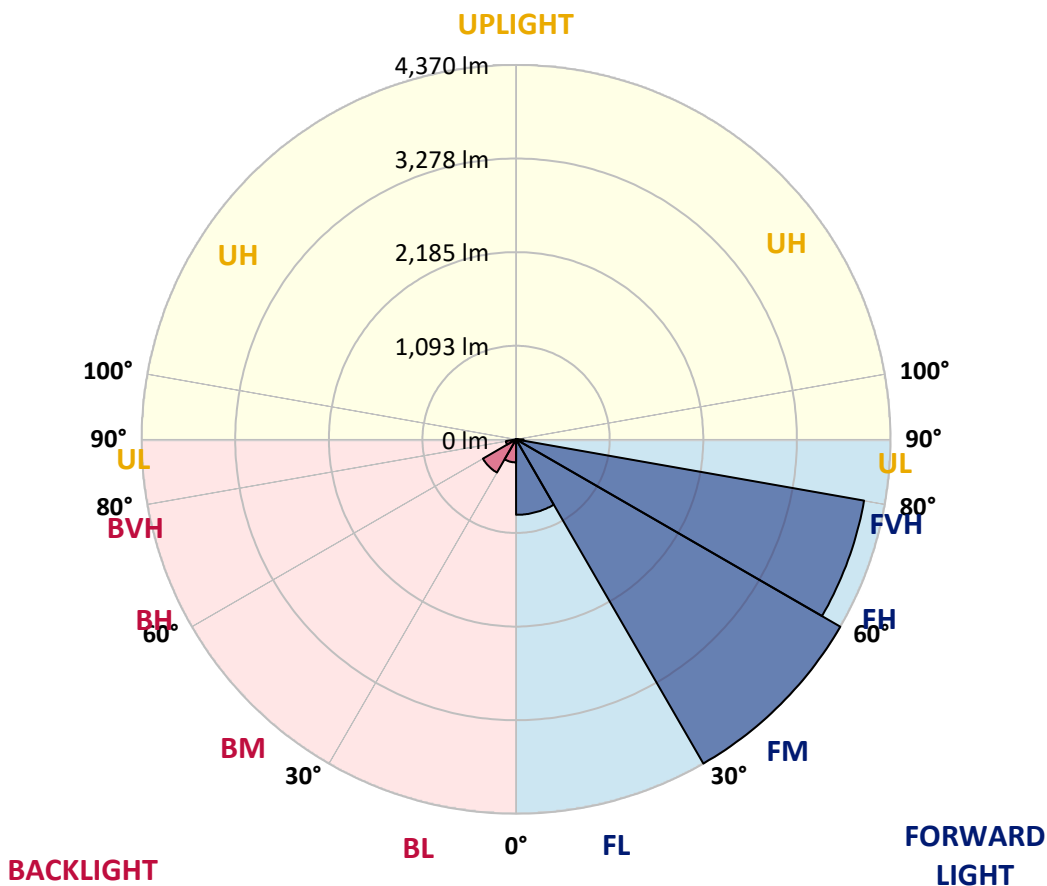
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.9	8.5			
FM (30°-60°)	4370.2	42.4			
FH (60°-80°)	4124.2	40.0			G2/5000
FVH (80°-90°)	86.9	0.8			G1/100
BL (0°-30°)	269.1	2.6	B1/500		
BM (30°-60°)	447.3	4.3	B1/1000		
BH (60°-80°)	120.2	1.2	B1/500		G1/500
BVH (80°-90°)	6.1	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°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
2.5°	1879.9	1886.5	1885.5	1888.3	1881.8	1871.5	1869.6	1855.5	1830.2	1798.3	1762.7
5°	1918.3	1925.8	1920.2	1917.4	1905.2	1894.0	1891.2	1876.1	1847.1	1804.0	1742.1
7.5°	1951.2	1953.0	1949.3	1942.7	1924.9	1909.9	1899.6	1879.0	1844.3	1801.1	1729.9
10°	1956.8	1955.8	1957.7	1958.7	1947.4	1934.3	1925.8	1897.7	1853.6	1807.7	1730.8
12.5°	1950.2	1950.2	1962.4	1976.5	1976.5	1969.9	1961.5	1936.2	1884.6	1830.2	1749.6
15°	1958.7	1961.5	1984.9	2011.2	2019.6	2013.0	2009.3	1983.0	1929.6	1869.6	1783.3
17.5°	1988.7	1991.5	2029.0	2068.4	2078.7	2071.2	2063.7	2037.4	1980.2	1914.6	1821.8
20°	2032.7	2040.2	2088.0	2138.7	2148.1	2138.7	2123.7	2087.1	2029.9	1963.3	1858.3
22.5°	2113.4	2118.1	2169.6	2223.1	2227.8	2212.7	2190.2	2139.6	2079.6	2014.9	1899.6
25°	2220.3	2226.8	2278.4	2330.0	2317.8	2295.3	2264.3	2207.1	2138.7	2075.9	1952.1
27.5°	2347.8	2355.3	2405.9	2450.9	2419.0	2392.8	2358.1	2286.8	2217.4	2160.2	2019.6
30°	2485.6	2492.2	2537.2	2577.5	2535.3	2504.3	2463.1	2390.0	2319.6	2276.5	2115.2
32.5°	2618.7	2617.8	2660.9	2693.7	2650.6	2626.2	2588.7	2514.7	2458.4	2439.7	2257.8
35°	2742.5	2742.5	2778.1	2810.9	2780.0	2766.9	2732.2	2673.1	2641.2	2663.7	2448.1
37.5°	2867.2	2860.6	2894.4	2931.0	2928.1	2929.1	2909.4	2881.3	2883.1	2962.8	2709.7
40°	2970.3	2967.5	3006.9	3054.7	3092.2	3122.2	3110.0	3120.4	3179.4	3328.5	3044.4
42.5°	3052.8	3059.4	3110.0	3186.0	3280.7	3341.6	3350.1	3392.3	3544.2	3774.8	3422.3
45°	3147.5	3148.5	3218.8	3335.1	3486.0	3582.6	3616.3	3725.1	3940.8	4238.0	3836.7
47.5°	3263.8	3252.6	3331.3	3494.5	3712.9	3855.4	3915.4	4051.4	4385.2	4689.9	4174.2
50°	3392.3	3371.6	3460.7	3682.9	3967.0	4145.2	4267.0	4465.8	4825.9	5061.2	4425.5
52.5°	3541.3	3521.6	3622.9	3899.5	4271.7	4488.3	4644.9	4845.5	5203.7	5344.4	4575.5
55°	3730.7	3711.0	3817.9	4159.2	4631.8	4913.1	5077.1	5245.9	5555.3	5553.4	4684.3
57.5°	3940.8	3913.6	4061.7	4487.4	5080.9	5373.4	5540.3	5622.8	5822.5	5715.6	4757.4
60°	4181.7	4157.3	4362.7	4878.4	5599.4	5870.4	5975.4	5941.6	6041.9	5811.3	4732.1
62.5°	4399.2	4388.0	4643.0	5292.8	6093.5	6322.3	6351.3	6204.1	6203.2	5813.2	4561.5
65°	4625.2	4646.8	5025.6	5770.0	6590.4	6744.2	6694.5	6464.8	6267.9	5583.4	4057.0
67.5°	4709.6	4772.4	5277.8	6201.3	6982.4	7102.4	7015.2	6595.1	5998.8	4810.9	3089.4
70°	4188.3	4306.4	5039.6	6225.7	7144.6	7258.9	7049.9	6244.5	5001.2	3186.9	1692.4
72.5°	3185.0	3322.9	4199.5	5097.8	6425.4	6686.1	6328.8	5087.4	3223.5	1396.1	568.2
75°	1782.4	1931.5	3127.9	3838.6	4313.9	4552.1	4420.8	3263.8	1428.0	364.7	169.7
77.5°	602.9	652.6	1455.2	2375.0	2847.5	2633.7	2229.6	1621.1	525.1	138.8	90.0
80°	357.2	376.0	541.9	1182.3	1498.3	1242.3	980.7	599.1	267.2	74.1	62.8
82.5°	106.9	126.6	299.1	438.8	586.9	365.7	309.4	342.2	138.8	40.3	52.5
85°	0.0	0.0	63.8	136.0	153.8	60.0	60.0	194.1	25.3	16.9	38.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.7	2.8	3.8	8.4
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°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
2.5°	1737.4	1704.6	1666.1	1629.6	1594.9	1549.9	1528.3	1502.0	1479.5	1467.4	1473.9
5°	1702.7	1651.1	1572.4	1492.7	1412.0	1336.1	1267.6	1221.7	1180.4	1158.9	1163.6
7.5°	1672.7	1603.3	1480.5	1350.2	1220.8	1090.4	984.5	902.0	838.2	812.0	807.3
10°	1659.6	1572.4	1398.9	1211.4	1012.6	837.3	687.3	596.3	531.6	499.7	505.4
12.5°	1666.1	1556.4	1329.5	1075.4	817.6	613.2	469.7	384.4	338.5	319.7	315.0
15°	1684.9	1552.7	1267.6	936.7	631.0	428.5	324.4	289.7	280.3	278.5	278.5
17.5°	1706.4	1553.6	1203.9	796.0	479.1	317.8	277.5	271.0	268.2	266.3	267.2
20°	1728.0	1553.6	1130.8	653.5	360.0	274.7	264.4	259.7	256.9	256.0	256.0
22.5°	1754.3	1553.6	1049.2	521.3	288.8	260.7	252.2	249.4	246.6	245.7	244.7
25°	1786.1	1554.6	959.2	407.9	262.5	248.5	241.9	239.1	236.3	234.4	234.4
27.5°	1832.1	1562.1	859.8	317.8	247.5	237.2	231.6	228.8	226.0	223.2	223.2
30°	1898.7	1580.8	748.2	262.5	233.5	225.0	219.4	217.5	214.7	211.9	211.0
32.5°	1998.0	1613.6	632.9	235.3	220.3	211.9	205.3	203.5	200.6	197.8	196.9
35°	2136.8	1673.6	520.4	218.5	203.5	195.0	191.3	190.3	186.6	183.8	183.8
37.5°	2340.3	1771.1	412.5	201.6	189.4	182.8	178.1	176.3	172.5	169.7	168.8
40°	2588.7	1897.7	320.7	188.5	176.3	169.7	165.0	162.2	157.5	153.8	151.9
42.5°	2905.6	2052.4	253.2	174.4	164.1	157.5	153.8	148.1	141.6	136.0	135.0
45°	3235.7	2211.8	209.1	161.3	152.8	147.2	142.5	135.0	125.6	119.1	117.2
47.5°	3488.8	2311.2	182.8	147.2	140.6	136.0	130.3	121.0	109.7	102.2	100.3
50°	3669.8	2326.2	163.1	134.1	130.3	125.6	117.2	105.9	93.8	86.3	84.4
52.5°	3758.9	2258.7	147.2	121.9	119.1	114.4	104.1	91.9	78.8	71.3	69.4
55°	3799.2	2131.2	132.2	111.6	107.8	102.2	90.9	77.8	64.7	58.1	56.3
57.5°	3783.2	1942.7	119.1	101.3	96.6	90.0	77.8	63.8	53.4	46.9	45.9
60°	3665.1	1678.3	105.9	90.9	85.3	77.8	65.6	52.5	43.1	38.4	37.5
62.5°	3410.1	1350.2	92.8	78.8	75.0	67.5	56.3	43.1	35.6	32.8	31.9
65°	2887.8	954.5	79.7	66.6	64.7	57.2	46.9	35.6	30.9	29.1	28.1
67.5°	2075.9	580.4	67.5	57.2	55.3	48.8	39.4	30.9	28.1	27.2	27.2
70°	1043.6	274.7	53.4	46.9	46.9	40.3	33.8	28.1	27.2	26.3	26.3
72.5°	354.4	117.2	40.3	36.6	38.4	34.7	29.1	26.3	26.3	26.3	26.3
75°	121.0	61.9	28.1	26.3	28.1	28.1	25.3	25.3	26.3	26.3	26.3
77.5°	78.8	41.3	19.7	17.8	21.6	21.6	21.6	23.4	25.3	25.3	25.3
80°	64.7	22.5	13.1	12.2	15.9	15.9	17.8	21.6	23.4	23.4	23.4
82.5°	55.3	14.1	7.5	8.4	11.3	12.2	15.0	17.8	20.6	21.6	21.6
85°	37.5	7.5	5.6	6.6	7.5	9.4	12.2	15.0	16.9	18.8	18.8
87.5°	10.3	2.8	3.8	4.7	4.7	6.6	9.4	11.3	13.1	14.1	14.1
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)