

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: P632867

Luminaire Tested: GWS-SA2D-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632867
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-SA2D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9410.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

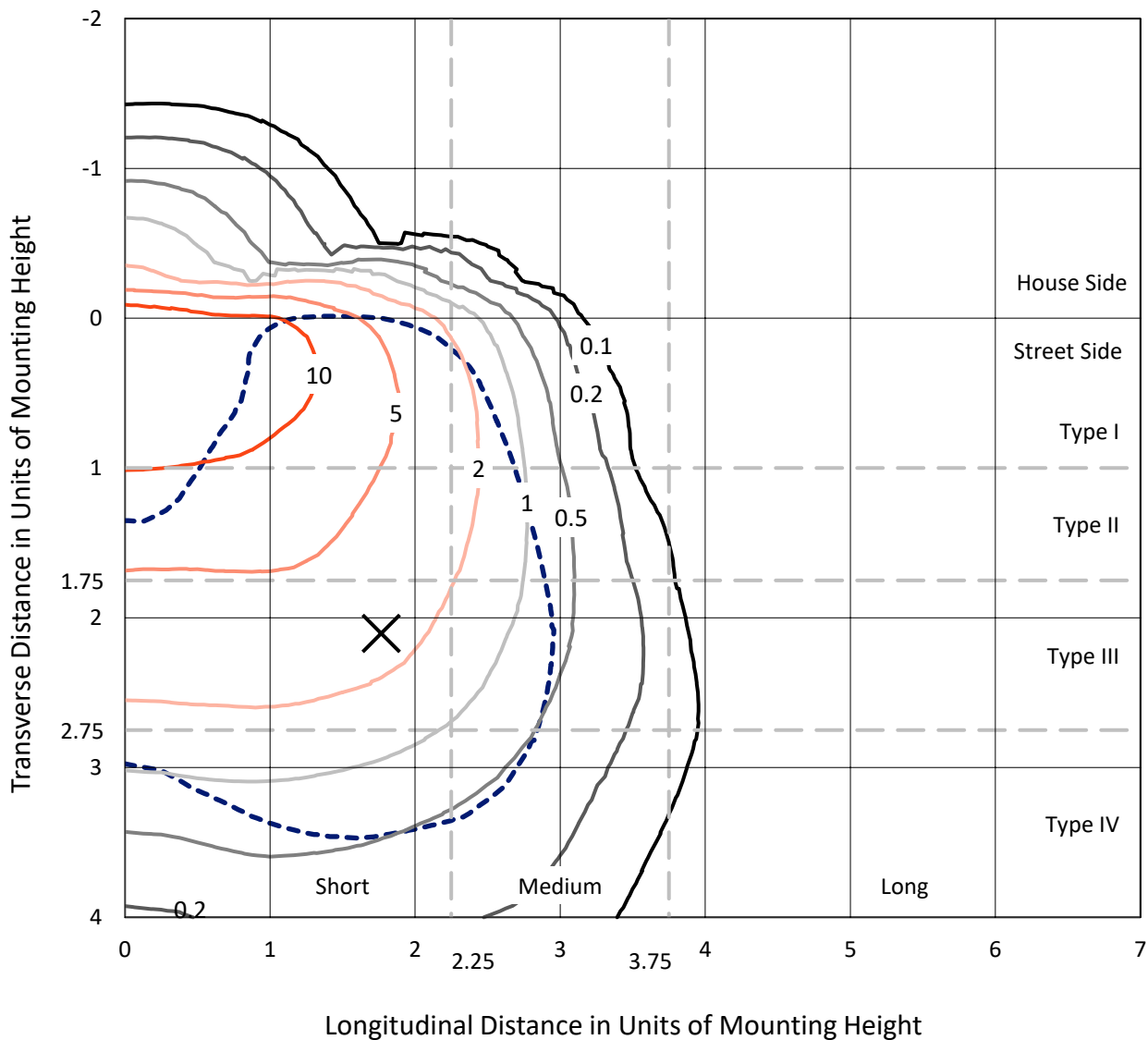
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

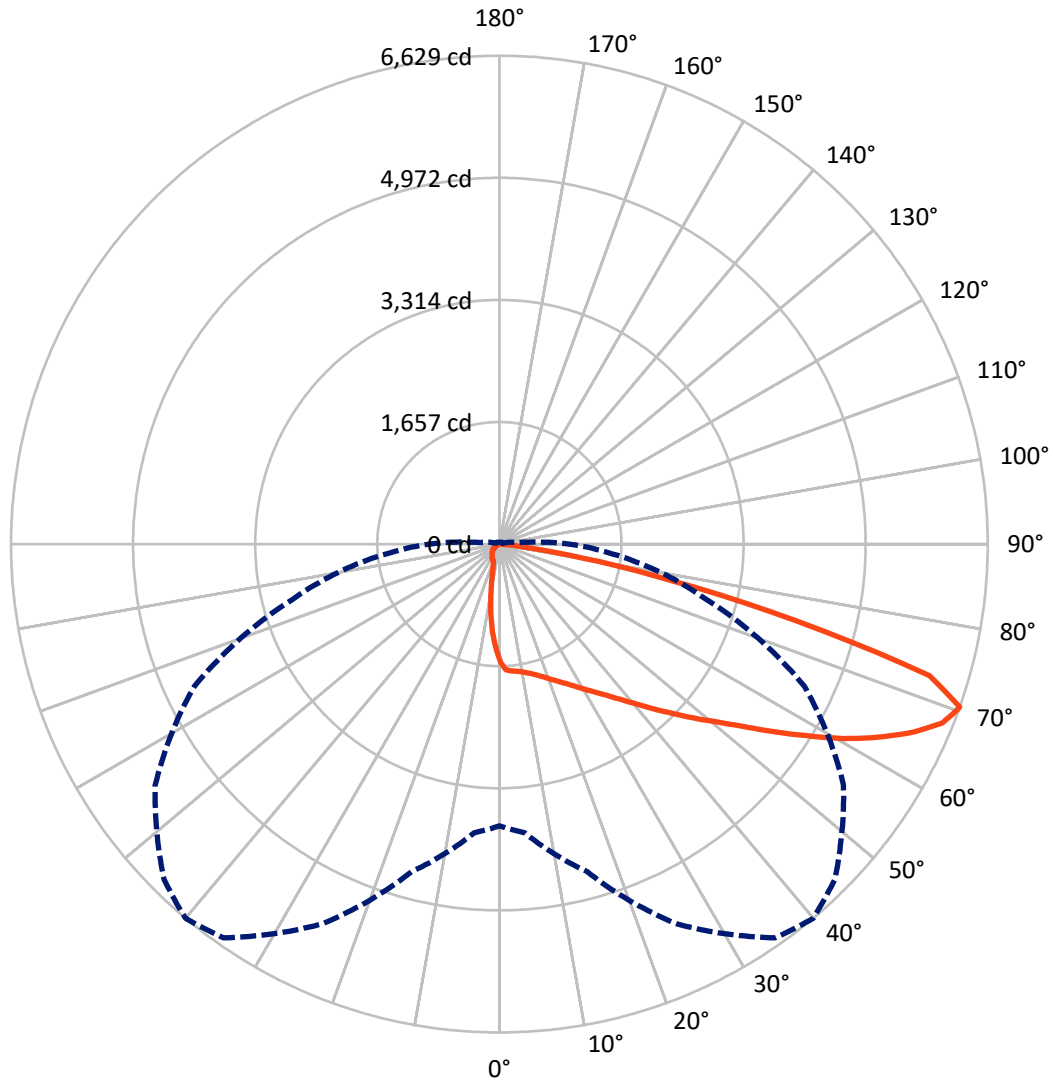
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 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	769.5	0.0	769.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	8641.0	0.0	8641.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	9410.6	0.0	9410.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.4
10°-20°	342.3	3.6
20°-30°	572.9	6.1
30°-40°	899.8	9.6
40°-50°	1423.3	15.1
50°-60°	2076.3	22.1
60°-70°	2573.8	27.4
70°-80°	1302.2	13.8
80°-90°	85.0	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°	9410.6	100.0
0°-180°	9410.6	100.0

Coefficient of Utilization



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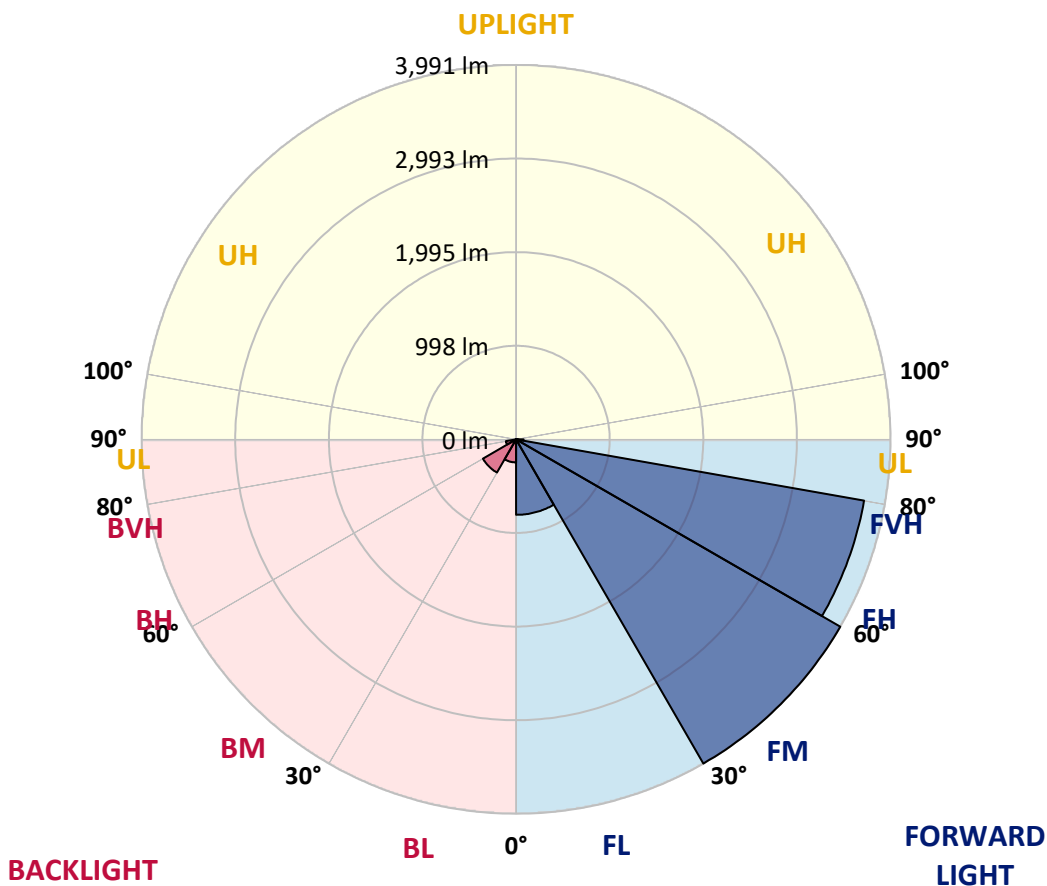
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.4	8.5			
FM (30°-60°)	3990.9	42.4			
FH (60°-80°)	3766.3	40.0			G2/5000
FVH (80°-90°)	79.4	0.8			G1/100
BL (0°-30°)	245.8	2.6	B1/500		
BM (30°-60°)	408.5	4.3	B1/1000		
BH (60°-80°)	109.7	1.2	B0/110		G0/110
BVH (80°-90°)	5.6	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°	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9
2.5°	1716.7	1722.7	1721.9	1724.4	1718.5	1709.0	1707.3	1694.5	1671.4	1642.2	1609.7
5°	1751.8	1758.7	1753.6	1751.0	1739.9	1729.6	1727.0	1713.3	1686.8	1647.4	1590.9
7.5°	1781.8	1783.5	1780.1	1774.1	1757.8	1744.1	1734.7	1715.9	1684.2	1644.8	1579.7
10°	1786.9	1786.1	1787.8	1788.7	1778.4	1766.4	1758.7	1733.0	1692.8	1650.8	1580.6
12.5°	1781.0	1781.0	1792.1	1804.9	1804.9	1798.9	1791.2	1768.1	1721.0	1671.4	1597.7
15°	1788.7	1791.2	1812.6	1836.6	1844.3	1838.3	1834.9	1810.9	1762.1	1707.3	1628.5
17.5°	1816.1	1818.6	1852.9	1888.8	1898.3	1891.4	1884.6	1860.6	1808.4	1748.4	1663.7
20°	1856.3	1863.2	1906.8	1953.1	1961.6	1953.1	1939.4	1906.0	1853.7	1792.9	1697.0
22.5°	1929.9	1934.2	1981.3	2030.1	2034.4	2020.7	2000.1	1953.9	1899.1	1840.0	1734.7
25°	2027.5	2033.5	2080.6	2127.7	2116.6	2096.0	2067.8	2015.6	1953.1	1895.7	1782.7
27.5°	2144.0	2150.8	2197.1	2238.2	2209.1	2185.1	2153.4	2088.3	2025.0	1972.8	1844.3
30°	2269.9	2275.9	2317.0	2353.8	2315.2	2287.0	2249.3	2182.5	2118.3	2078.9	1931.7
32.5°	2391.4	2390.6	2430.0	2459.9	2420.6	2398.3	2364.0	2296.4	2245.0	2227.9	2061.8
35°	2504.5	2504.5	2537.0	2567.0	2538.7	2526.7	2495.0	2441.1	2412.0	2432.5	2235.6
37.5°	2618.3	2612.4	2643.2	2676.6	2674.0	2674.9	2656.9	2631.2	2632.9	2705.7	2474.5
40°	2712.5	2710.0	2745.9	2789.6	2823.8	2851.2	2840.1	2849.5	2903.5	3039.6	2780.2
42.5°	2787.9	2793.9	2840.1	2909.5	2995.9	3051.6	3059.3	3097.8	3236.5	3447.2	3125.2
45°	2874.4	2875.2	2939.4	3045.6	3183.5	3271.6	3302.5	3401.8	3598.7	3870.2	3503.7
47.5°	2980.5	2970.3	3042.2	3191.2	3390.7	3520.8	3575.6	3699.8	4004.6	4282.9	3811.9
50°	3097.8	3079.0	3160.3	3363.3	3622.7	3785.4	3896.7	4078.2	4407.0	4621.9	4041.4
52.5°	3234.0	3216.0	3308.5	3561.1	3901.0	4098.8	4241.8	4425.0	4752.1	4880.5	4178.4
55°	3406.9	3389.0	3486.6	3798.2	4229.8	4486.6	4636.5	4790.6	5073.2	5071.4	4277.7
57.5°	3598.7	3573.9	3709.2	4097.9	4639.9	4907.0	5059.5	5134.8	5317.2	5219.6	4344.5
60°	3818.8	3796.5	3984.0	4455.0	5113.4	5360.8	5456.7	5425.9	5517.5	5306.9	4321.4
62.5°	4017.4	4007.1	4240.0	4833.4	5564.6	5773.5	5800.1	5665.7	5664.8	5308.6	4165.6
65°	4223.8	4243.5	4589.4	5269.2	6018.4	6158.9	6113.5	5903.7	5723.9	5098.8	3704.9
67.5°	4300.8	4358.2	4819.7	5663.1	6376.3	6485.9	6406.3	6022.7	5478.1	4393.3	2821.3
70°	3824.8	3932.7	4602.2	5685.4	6524.5	6628.9	6438.0	5702.5	4567.1	2910.3	1545.5
72.5°	2908.6	3034.5	3835.0	4655.3	5867.7	6105.8	5779.5	4645.9	2943.7	1274.9	518.9
75°	1627.7	1763.8	2856.4	3505.4	3939.5	4157.0	4037.1	2980.5	1304.0	333.1	155.0
77.5°	550.6	595.9	1328.9	2168.8	2600.4	2405.1	2036.1	1480.4	479.5	126.7	82.2
80°	326.2	343.3	494.9	1079.7	1368.3	1134.5	895.6	547.1	244.0	67.6	57.4
82.5°	97.6	115.6	273.1	400.7	536.0	333.9	282.6	312.5	126.7	36.8	47.9
85°	0.0	0.0	58.2	124.2	140.4	54.8	54.8	177.2	23.1	15.4	35.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.3	2.6	3.4	7.7
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°	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9
2.5°	1586.6	1556.6	1521.5	1488.1	1456.4	1415.3	1395.7	1371.7	1351.1	1340.0	1346.0
5°	1554.9	1507.8	1435.9	1363.1	1289.5	1220.1	1157.6	1115.7	1078.0	1058.3	1062.6
7.5°	1527.5	1464.2	1352.0	1233.0	1114.8	995.8	899.0	823.7	765.5	741.5	737.2
10°	1515.5	1435.9	1277.5	1106.2	924.7	764.6	627.6	544.6	485.5	456.4	461.5
12.5°	1521.5	1421.3	1214.1	982.1	746.6	560.0	429.0	351.1	309.1	292.0	287.7
15°	1538.6	1417.9	1157.6	855.4	576.2	391.3	296.3	264.6	256.0	254.3	254.3
17.5°	1558.3	1418.8	1099.4	726.9	437.5	290.3	253.4	247.5	244.9	243.2	244.0
20°	1578.0	1418.8	1032.6	596.8	328.8	250.9	241.5	237.2	234.6	233.8	233.8
22.5°	1602.0	1418.8	958.1	476.1	263.7	238.0	230.3	227.8	225.2	224.3	223.5
25°	1631.1	1419.6	875.9	372.5	239.7	226.9	220.9	218.3	215.8	214.1	214.1
27.5°	1673.1	1426.5	785.2	290.3	226.0	216.6	211.5	208.9	206.4	203.8	203.8
30°	1733.9	1443.6	683.3	239.7	213.2	205.5	200.4	198.6	196.1	193.5	192.7
32.5°	1824.6	1473.6	578.0	214.9	201.2	193.5	187.5	185.8	183.2	180.7	179.8
35°	1951.3	1528.4	475.2	199.5	185.8	178.1	174.7	173.8	170.4	167.8	167.8
37.5°	2137.1	1617.4	376.7	184.1	173.0	167.0	162.7	161.0	157.5	155.0	154.1
40°	2364.0	1733.0	292.8	172.1	161.0	155.0	150.7	148.1	143.8	140.4	138.7
42.5°	2653.5	1874.3	231.2	159.3	149.8	143.8	140.4	135.3	129.3	124.2	123.3
45°	2954.8	2019.8	190.9	147.3	139.6	134.4	130.1	123.3	114.7	108.7	107.0
47.5°	3186.0	2110.6	167.0	134.4	128.4	124.2	119.0	110.5	100.2	93.3	91.6
50°	3351.3	2124.3	149.0	122.4	119.0	114.7	107.0	96.8	85.6	78.8	77.1
52.5°	3432.6	2062.7	134.4	111.3	108.7	104.5	95.0	83.9	71.9	65.1	63.4
55°	3469.4	1946.2	120.7	101.9	98.5	93.3	83.1	71.1	59.1	53.1	51.4
57.5°	3454.9	1774.1	108.7	92.5	88.2	82.2	71.1	58.2	48.8	42.8	42.0
60°	3347.0	1532.6	96.8	83.1	77.9	71.1	59.9	47.9	39.4	35.1	34.2
62.5°	3114.1	1233.0	84.8	71.9	68.5	61.6	51.4	39.4	32.5	30.0	29.1
65°	2637.2	871.6	72.8	60.8	59.1	52.2	42.8	32.5	28.3	26.5	25.7
67.5°	1895.7	530.0	61.6	52.2	50.5	44.5	36.0	28.3	25.7	24.8	24.8
70°	953.0	250.9	48.8	42.8	42.8	36.8	30.8	25.7	24.8	24.0	24.0
72.5°	323.7	107.0	36.8	33.4	35.1	31.7	26.5	24.0	24.0	24.0	24.0
75°	110.5	56.5	25.7	24.0	25.7	25.7	23.1	23.1	24.0	24.0	24.0
77.5°	71.9	37.7	18.0	16.3	19.7	19.7	19.7	21.4	23.1	23.1	23.1
80°	59.1	20.5	12.0	11.1	14.6	14.6	16.3	19.7	21.4	21.4	21.4
82.5°	50.5	12.8	6.8	7.7	10.3	11.1	13.7	16.3	18.8	19.7	19.7
85°	34.2	6.8	5.1	6.0	6.8	8.6	11.1	13.7	15.4	17.1	17.1
87.5°	9.4	2.6	3.4	4.3	4.3	6.0	8.6	10.3	12.0	12.8	12.8
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)