

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: P630819

Luminaire Tested: GWS-SA1E-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6354.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

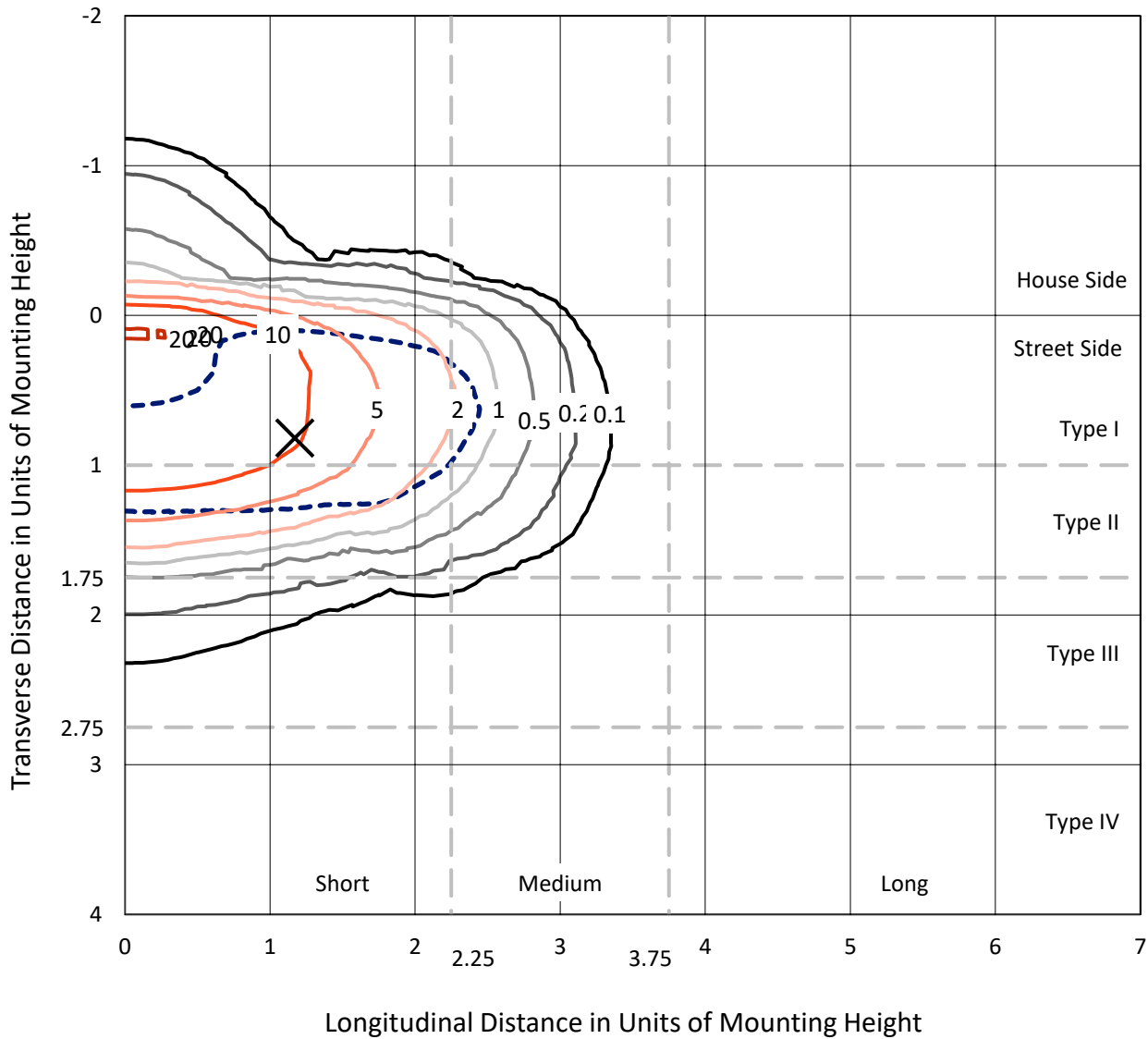
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

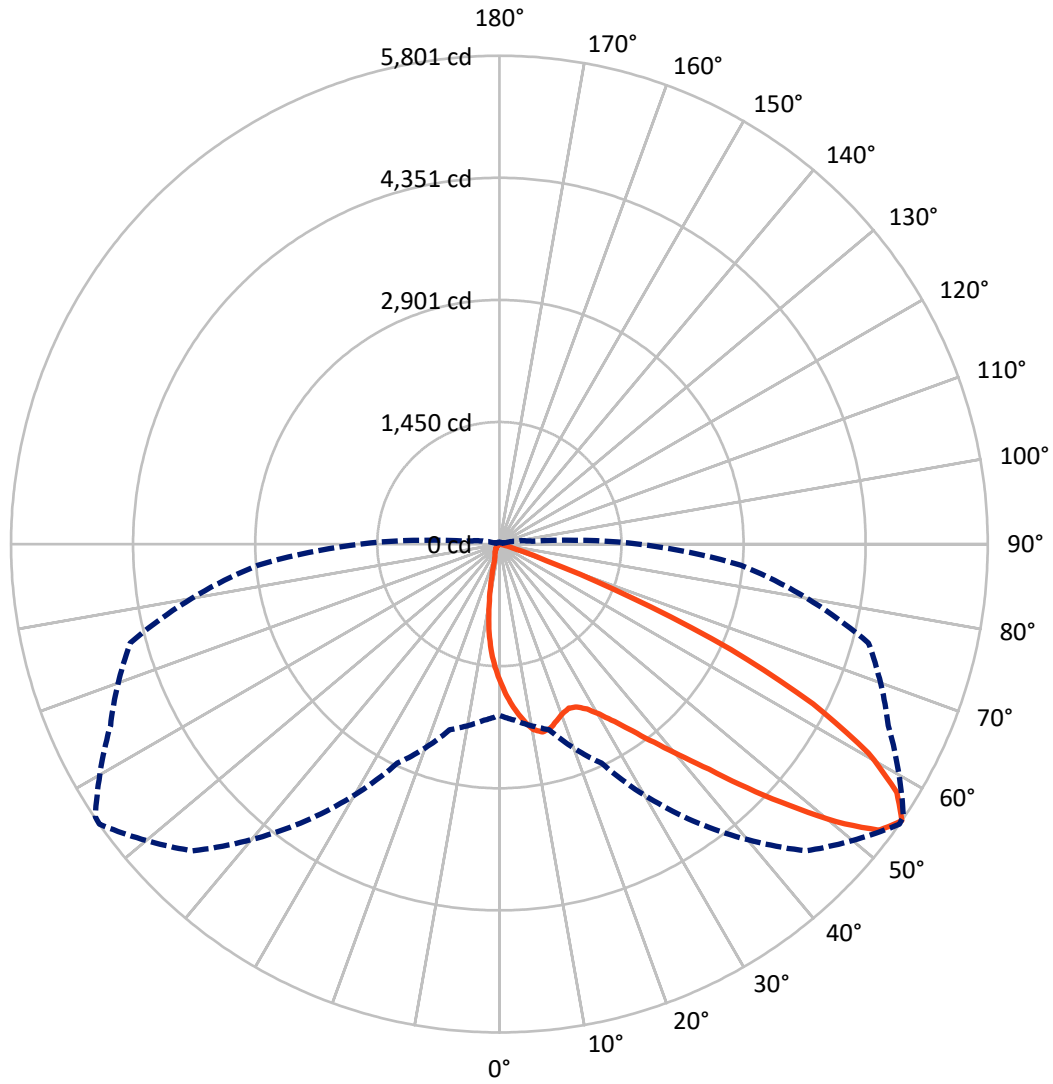
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.1	0.0	392.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5962.4	0.0	5962.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	6354.5	0.0	6354.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	2.3
10°-20°	349.8	5.5
20°-30°	582.5	9.2
30°-40°	992.6	15.6
40°-50°	1620.3	25.5
50°-60°	1696.4	26.7
60°-70°	855.6	13.5
70°-80°	108.1	1.7
80°-90°	4.1	0.1
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°	6354.5	100.0
0°-180°	6354.5	100.0

Coefficient of Utilization



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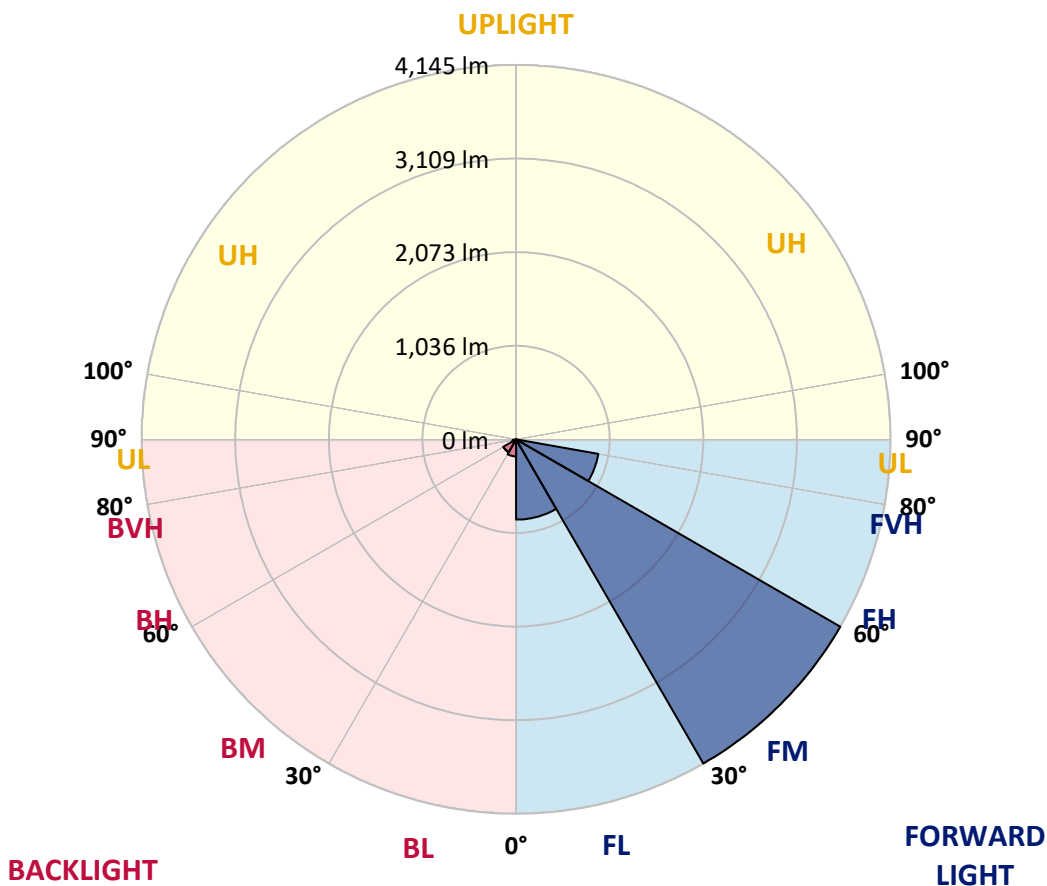
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.9	14.0			
FM (30°-60°)	4145.4	65.2			
FH (60°-80°)	924.4	14.5			G1/1800
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	188.5	3.0	B1/500		
BM (30°-60°)	163.9	2.6	B0/220		
BH (60°-80°)	39.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1913.8	1904.6	1918.7	1902.4	1874.7	1851.3	1820.9	1810.0	1761.1	1715.0	1670.4
5°	2146.3	2149.0	2144.7	2121.8	2082.7	2039.3	1977.9	1964.3	1879.0	1791.0	1696.0
7.5°	2203.9	2202.2	2211.5	2220.2	2213.6	2191.9	2125.1	2111.5	2005.6	1873.6	1735.1
10°	2026.2	2027.3	2046.3	2105.0	2177.8	2253.3	2243.0	2235.4	2131.6	1967.0	1778.5
12.5°	1775.3	1785.0	1805.1	1888.8	2012.1	2183.8	2290.2	2297.8	2247.3	2069.7	1829.6
15°	1666.6	1668.8	1685.1	1735.6	1827.4	2039.3	2270.1	2291.3	2344.0	2172.9	1885.0
17.5°	1663.9	1666.6	1673.7	1696.0	1755.7	1925.7	2205.5	2242.4	2416.8	2283.7	1951.3
20°	1766.0	1764.4	1759.5	1747.6	1773.6	1888.3	2145.7	2186.5	2456.5	2391.8	2018.1
22.5°	1951.3	1949.1	1927.4	1877.9	1856.7	1922.5	2116.4	2153.4	2480.4	2488.0	2073.0
25°	2164.8	2180.0	2139.2	2064.3	2012.1	2009.9	2142.5	2168.6	2501.0	2573.3	2110.4
27.5°	2398.9	2403.8	2369.0	2284.8	2209.3	2150.1	2218.0	2237.6	2523.8	2649.3	2131.6
30°	2655.8	2654.2	2614.5	2516.8	2425.0	2339.7	2345.1	2352.7	2577.1	2736.2	2155.0
32.5°	2976.9	2983.9	2913.3	2780.2	2670.0	2552.1	2511.3	2512.4	2673.2	2848.1	2190.3
35°	3413.1	3395.7	3302.3	3112.7	2924.7	2797.6	2728.1	2722.1	2821.5	2998.6	2251.7
37.5°	3828.7	3830.3	3732.5	3523.9	3286.5	3086.1	2987.7	2971.4	3030.1	3207.2	2353.8
40°	4117.1	4122.5	4081.8	3972.6	3721.1	3437.5	3293.0	3276.2	3300.6	3471.2	2487.4
42.5°	4269.8	4285.0	4296.4	4321.9	4131.2	3876.5	3654.3	3652.7	3627.1	3772.2	2642.3
45°	4275.7	4298.6	4368.1	4542.5	4564.2	4377.3	4135.6	4099.2	4000.9	4094.3	2780.8
47.5°	4039.4	4092.1	4239.9	4585.4	4813.5	4875.5	4635.9	4613.6	4337.7	4349.1	2884.5
50°	3488.6	3543.5	3815.6	4365.4	4876.5	5270.9	5185.1	5138.9	4619.1	4517.5	2934.5
52.5°	2923.6	2973.6	3158.3	3841.7	4615.3	5395.3	5647.9	5593.1	4871.7	4576.1	2913.9
55°	2034.4	2101.2	2281.6	2871.5	4013.4	5153.0	5801.1	5789.7	5097.1	4539.2	2881.8
57.5°	997.4	1063.6	1243.4	1770.4	2973.1	4499.0	5567.0	5627.3	5231.8	4499.5	2855.7
60°	416.7	443.8	505.7	776.8	1663.4	3400.1	5038.4	5122.1	5149.2	4445.8	2853.0
62.5°	241.7	246.1	252.6	322.1	647.0	1949.1	4179.6	4298.6	4715.2	4374.6	2810.1
65°	182.5	184.2	181.4	197.7	267.3	739.3	3019.8	3181.7	3935.7	4096.5	2640.6
67.5°	149.9	149.9	142.9	146.1	167.9	277.0	1667.2	1893.1	2912.2	3366.9	2180.5
70°	119.5	122.2	119.0	114.6	120.1	153.2	593.2	735.5	1696.0	1988.2	1271.7
72.5°	90.7	90.7	96.2	92.9	89.1	96.2	207.0	232.5	680.7	829.0	459.0
75°	70.1	72.2	76.1	72.8	67.4	57.0	99.4	105.4	205.3	192.8	102.7
77.5°	35.9	36.4	48.3	53.2	50.0	34.8	43.5	47.8	66.8	59.8	38.0
80°	21.7	22.8	27.2	41.8	33.1	18.5	17.9	19.0	31.5	27.2	15.8
82.5°	9.2	9.8	15.2	15.2	13.6	7.1	7.1	7.1	15.2	14.1	6.5
85°	0.0	0.0	2.7	2.2	2.2	2.7	2.7	2.7	3.8	5.4	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6
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°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1641.6	1606.9	1560.1	1517.8	1460.7	1428.7	1384.1	1347.7	1316.8	1307.0	1302.7
5°	1642.2	1582.4	1482.5	1382.5	1259.7	1163.0	1063.6	984.9	920.2	899.6	894.2
7.5°	1653.0	1565.0	1403.2	1221.7	1016.4	846.9	695.3	559.5	496.5	475.3	471.0
10°	1667.7	1550.4	1311.3	1028.9	733.9	516.1	365.6	278.7	237.4	214.6	217.8
12.5°	1686.7	1538.4	1209.8	820.3	485.6	283.6	201.0	168.4	159.7	155.4	153.2
15°	1712.3	1524.3	1083.7	613.3	297.7	182.5	154.8	146.1	142.9	140.7	140.2
17.5°	1738.3	1508.0	955.5	431.3	197.7	151.6	139.1	134.7	132.5	130.9	130.4
20°	1766.0	1480.3	805.1	297.1	155.9	136.3	128.2	123.3	120.6	117.9	117.3
22.5°	1778.0	1435.7	661.1	208.1	138.5	125.5	115.2	109.2	105.9	103.8	103.8
25°	1766.6	1363.5	512.3	158.1	126.0	113.5	103.2	96.7	94.0	91.8	91.8
27.5°	1736.2	1270.6	373.7	130.9	112.4	101.0	91.3	85.3	83.1	82.0	82.0
30°	1702.5	1153.3	263.5	112.4	97.2	88.0	79.9	76.1	75.5	74.4	74.4
32.5°	1673.7	1043.5	181.4	98.9	85.8	76.6	71.2	69.5	70.1	69.0	69.5
35°	1657.9	936.0	134.7	88.0	76.6	67.9	65.2	65.2	65.2	64.6	64.6
37.5°	1664.4	830.1	109.7	80.4	68.4	61.9	59.2	60.3	61.4	61.4	61.4
40°	1697.0	736.1	97.2	73.3	61.4	56.5	54.3	56.0	57.6	58.7	58.7
42.5°	1738.3	660.0	88.0	67.4	56.5	51.1	50.0	51.6	53.2	54.3	54.3
45°	1764.4	583.4	78.8	59.8	51.6	45.1	45.1	47.3	46.7	47.3	47.3
47.5°	1776.4	522.6	69.5	51.6	44.0	39.1	39.7	40.7	39.7	40.7	40.7
50°	1747.0	461.2	61.4	42.9	36.4	34.2	35.3	34.8	34.8	36.9	36.9
52.5°	1693.2	415.6	54.3	36.4	31.0	30.4	31.5	29.3	29.9	29.9	29.3
55°	1653.6	389.5	48.3	31.5	26.6	27.2	26.6	22.8	20.6	18.5	17.9
57.5°	1634.0	379.2	44.0	28.2	23.9	23.9	21.7	15.8	12.0	9.2	8.1
60°	1629.7	366.7	39.7	24.4	21.2	20.1	15.8	9.2	6.0	4.3	3.8
62.5°	1588.4	336.3	35.9	19.6	18.5	16.3	9.8	5.4	3.3	2.2	1.6
65°	1453.1	276.5	32.1	15.2	14.1	12.0	6.0	3.3	1.6	0.5	0.0
67.5°	1156.0	196.1	28.2	11.4	9.8	7.6	3.8	2.2	0.5	0.0	0.0
70°	666.5	105.9	23.4	8.1	6.5	4.9	2.7	1.1	0.0	0.0	0.0
72.5°	222.7	49.4	17.9	5.4	4.9	3.8	1.6	0.5	0.0	0.0	0.0
75°	48.9	29.3	12.0	3.8	3.3	2.7	1.1	0.0	0.0	0.0	0.0
77.5°	18.5	20.6	6.0	2.7	2.2	1.6	0.5	0.0	0.0	0.0	0.0
80°	7.1	13.6	2.7	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	5.4	1.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	2.7	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)