

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: P631809

Luminaire Tested: GWS-SA2B-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631809
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-SA2B-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.3 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

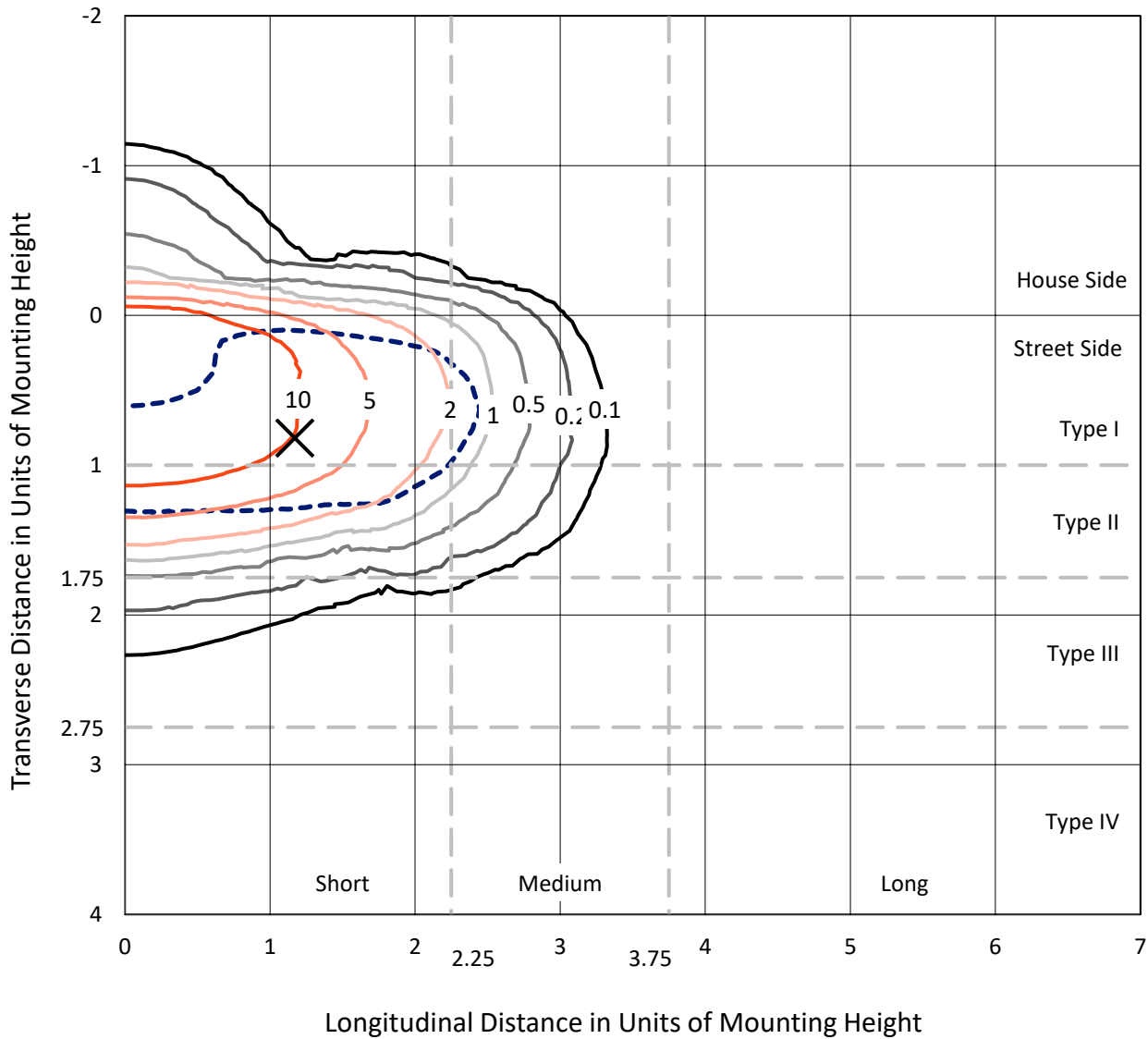
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

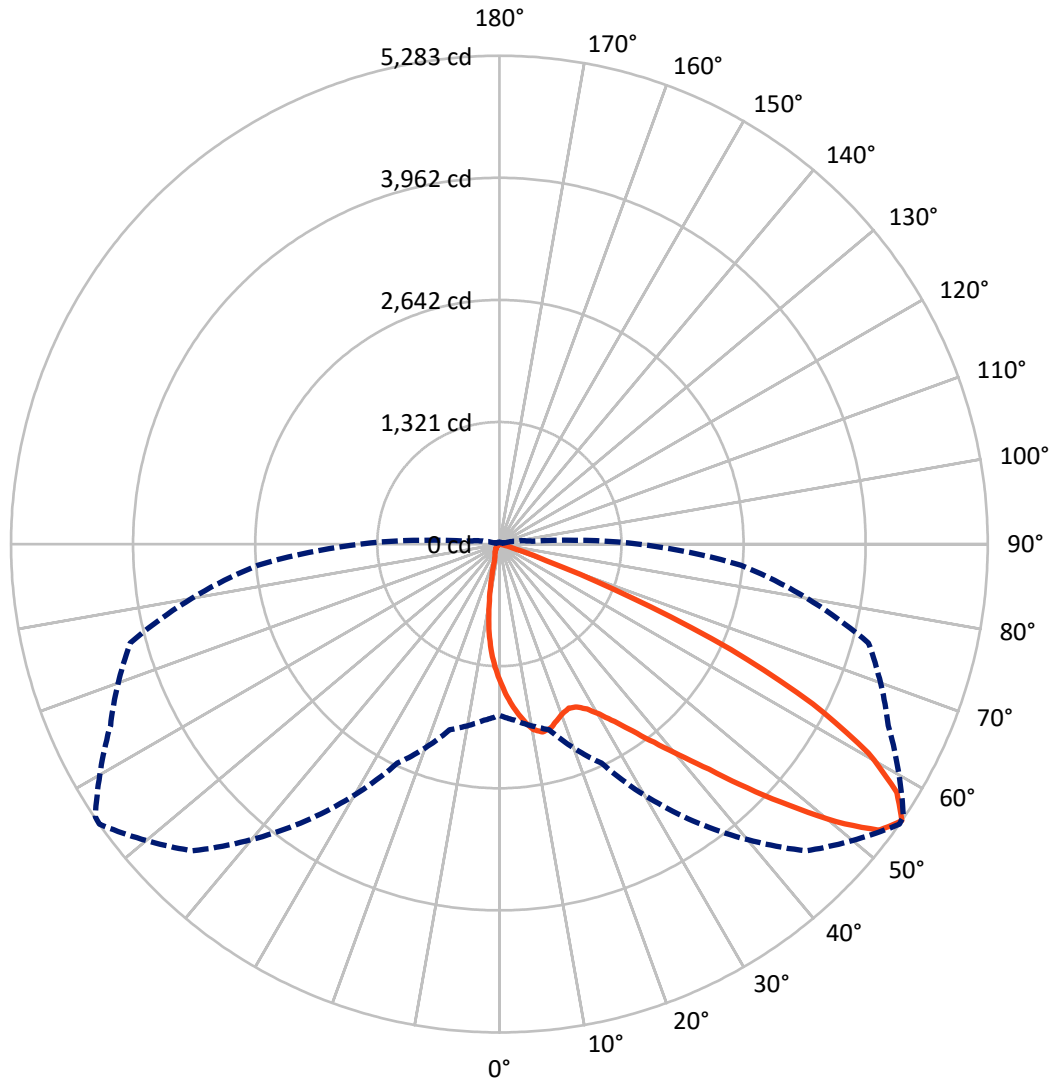
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 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	357.1	0.0	357.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5430.2	0.0	5430.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	5787.3	0.0	5787.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	2.3
10°-20°	318.6	5.5
20°-30°	530.5	9.2
30°-40°	904.0	15.6
40°-50°	1475.7	25.5
50°-60°	1545.0	26.7
60°-70°	779.3	13.5
70°-80°	98.4	1.7
80°-90°	3.7	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°	5787.3	100.0
0°-180°	5787.3	100.0

Coefficient of Utilization



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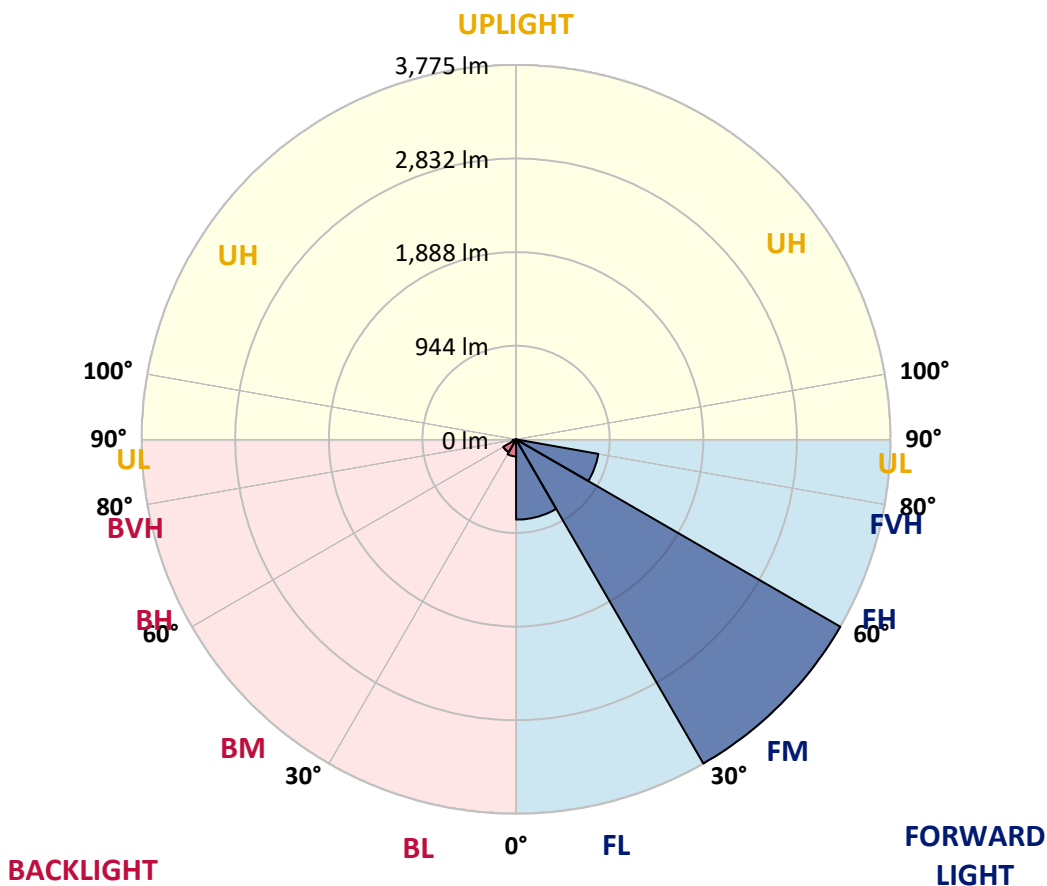
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.6	14.0			
FM (30°-60°)	3775.4	65.2			
FH (60°-80°)	841.9	14.5			G1/1800
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	171.6	3.0	B1/500		
BM (30°-60°)	149.3	2.6	B0/220		
BH (60°-80°)	35.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1
2.5°	1743.0	1734.6	1747.4	1732.6	1707.3	1686.1	1658.4	1648.5	1603.9	1561.9	1521.3
5°	1954.7	1957.2	1953.2	1932.4	1896.8	1857.2	1801.3	1789.0	1711.3	1631.2	1544.6
7.5°	2007.2	2005.7	2014.1	2022.0	2016.1	1996.3	1935.4	1923.0	1826.6	1706.4	1580.2
10°	1845.4	1846.4	1863.7	1917.1	1983.4	2052.2	2042.8	2035.8	1941.4	1791.4	1619.8
12.5°	1616.8	1625.7	1644.0	1720.2	1832.5	1988.8	2085.8	2092.7	2046.7	1885.0	1666.3
15°	1517.9	1519.8	1534.7	1580.7	1664.3	1857.2	2067.5	2086.8	2134.8	1979.0	1716.7
17.5°	1515.4	1517.9	1524.3	1544.6	1599.0	1753.8	2008.6	2042.3	2201.1	2079.9	1777.1
20°	1608.4	1606.9	1602.5	1591.6	1615.3	1719.7	1954.2	1991.3	2237.2	2178.3	1838.0
22.5°	1777.1	1775.1	1755.3	1710.3	1691.0	1750.9	1927.5	1961.1	2259.0	2265.9	1887.9
25°	1971.5	1985.4	1948.3	1880.0	1832.5	1830.5	1951.2	1975.0	2277.8	2343.6	1922.1
27.5°	2184.8	2189.2	2157.6	2080.9	2012.1	1958.2	2020.0	2037.8	2298.6	2412.8	1941.4
30°	2418.8	2417.3	2381.2	2292.1	2208.5	2130.8	2135.8	2142.7	2347.0	2492.0	1962.6
32.5°	2711.2	2717.6	2653.3	2532.1	2431.6	2324.3	2287.2	2288.2	2434.6	2593.9	1994.8
35°	3108.4	3092.6	3007.5	2834.9	2663.7	2547.9	2484.6	2479.1	2569.7	2731.0	2050.7
37.5°	3486.9	3488.4	3399.3	3209.4	2993.2	2810.6	2721.1	2706.2	2759.7	2920.9	2143.7
40°	3749.6	3754.6	3717.5	3618.0	3389.0	3130.7	2999.1	2983.8	3006.0	3161.4	2265.4
42.5°	3888.6	3902.5	3912.9	3936.1	3762.5	3530.5	3328.1	3326.6	3303.4	3435.5	2406.4
45°	3894.1	3914.9	3978.2	4137.0	4156.8	3986.6	3766.4	3733.3	3643.7	3728.8	2532.6
47.5°	3678.9	3726.9	3861.4	4176.1	4383.9	4440.3	4222.1	4201.8	3950.5	3960.9	2627.1
50°	3177.2	3227.2	3475.0	3975.7	4441.3	4800.4	4722.3	4680.2	4206.8	4114.2	2672.6
52.5°	2662.7	2708.2	2876.4	3498.8	4203.3	4913.7	5143.8	5093.8	4436.8	4167.7	2653.8
55°	1852.8	1913.6	2077.9	2615.2	3655.1	4693.1	5283.3	5272.9	4642.1	4134.0	2624.6
57.5°	908.3	968.7	1132.5	1612.4	2707.7	4097.4	5070.1	5125.0	4764.8	4097.9	2600.8
60°	379.5	404.2	460.6	707.5	1514.9	3096.6	4588.7	4664.9	4689.6	4048.9	2598.4
62.5°	220.2	224.1	230.1	293.4	589.2	1775.1	3806.5	3914.9	4294.3	3984.1	2559.3
65°	166.2	167.7	165.2	180.1	243.4	673.3	2750.3	2897.7	3584.4	3730.8	2404.9
67.5°	136.5	136.5	130.1	133.1	152.9	252.3	1518.4	1724.2	2652.3	3066.4	1985.9
70°	108.8	111.3	108.3	104.4	109.3	139.5	540.3	669.9	1544.6	1810.7	1158.2
72.5°	82.6	82.6	87.6	84.6	81.1	87.6	188.5	211.7	619.9	755.0	418.1
75°	63.8	65.8	69.3	66.3	61.3	51.9	90.5	96.0	187.0	175.6	93.5
77.5°	32.7	33.1	44.0	48.5	45.5	31.7	39.6	43.5	60.9	54.4	34.6
80°	19.8	20.8	24.7	38.1	30.2	16.8	16.3	17.3	28.7	24.7	14.3
82.5°	8.4	8.9	13.9	13.9	12.4	6.4	6.4	6.4	13.9	12.9	5.9
85°	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	3.5	4.9	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5
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°	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1
2.5°	1495.1	1463.4	1420.9	1382.3	1330.4	1301.2	1260.6	1227.4	1199.2	1190.3	1186.4
5°	1495.6	1441.2	1350.1	1259.1	1147.3	1059.2	968.7	897.0	838.1	819.3	814.3
7.5°	1505.5	1425.3	1277.9	1112.7	925.7	771.3	633.3	509.6	452.2	432.9	428.9
10°	1518.8	1412.0	1194.3	937.0	668.4	470.0	333.0	253.8	216.2	195.4	198.4
12.5°	1536.2	1401.1	1101.8	747.1	442.3	258.3	183.1	153.4	145.5	141.5	139.5
15°	1559.4	1388.2	987.0	558.6	271.1	166.2	141.0	133.1	130.1	128.1	127.6
17.5°	1583.2	1373.4	870.2	392.8	180.1	138.0	126.7	122.7	120.7	119.2	118.7
20°	1608.4	1348.2	733.2	270.6	142.0	124.2	116.8	112.3	109.8	107.4	106.9
22.5°	1619.3	1307.6	602.1	189.5	126.2	114.3	104.9	99.4	96.5	94.5	94.5
25°	1608.9	1241.8	466.5	144.0	114.8	103.4	94.0	88.1	85.6	83.6	83.6
27.5°	1581.2	1157.2	340.4	119.2	102.4	92.0	83.1	77.7	75.7	74.7	74.7
30°	1550.5	1050.3	239.9	102.4	88.6	80.1	72.7	69.3	68.8	67.8	67.8
32.5°	1524.3	950.4	165.2	90.0	78.2	69.8	64.8	63.3	63.8	62.8	63.3
35°	1509.9	852.4	122.7	80.1	69.8	61.8	59.4	59.4	59.4	58.9	58.9
37.5°	1515.9	756.0	99.9	73.2	62.3	56.4	53.9	54.9	55.9	55.9	55.9
40°	1545.6	670.4	88.6	66.8	55.9	51.5	49.5	51.0	52.4	53.4	53.4
42.5°	1583.2	601.1	80.1	61.3	51.5	46.5	45.5	47.0	48.5	49.5	49.5
45°	1606.9	531.3	71.7	54.4	47.0	41.1	41.1	43.0	42.5	43.0	43.0
47.5°	1617.8	475.9	63.3	47.0	40.1	35.6	36.1	37.1	36.1	37.1	37.1
50°	1591.1	420.0	55.9	39.1	33.1	31.2	32.2	31.7	31.7	33.6	33.6
52.5°	1542.1	378.5	49.5	33.1	28.2	27.7	28.7	26.7	27.2	27.2	26.7
55°	1506.0	354.7	44.0	28.7	24.2	24.7	24.2	20.8	18.8	16.8	16.3
57.5°	1488.2	345.3	40.1	25.7	21.8	21.8	19.8	14.3	10.9	8.4	7.4
60°	1484.2	333.9	36.1	22.3	19.3	18.3	14.3	8.4	5.4	4.0	3.5
62.5°	1446.6	306.2	32.7	17.8	16.8	14.8	8.9	4.9	3.0	2.0	1.5
65°	1323.4	251.8	29.2	13.9	12.9	10.9	5.4	3.0	1.5	0.5	0.0
67.5°	1052.8	178.6	25.7	10.4	8.9	6.9	3.5	2.0	0.5	0.0	0.0
70°	607.0	96.5	21.3	7.4	5.9	4.5	2.5	1.0	0.0	0.0	0.0
72.5°	202.8	45.0	16.3	4.9	4.5	3.5	1.5	0.5	0.0	0.0	0.0
75°	44.5	26.7	10.9	3.5	3.0	2.5	1.0	0.0	0.0	0.0	0.0
77.5°	16.8	18.8	5.4	2.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.4	12.4	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	4.9	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)