

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: P630324

Luminaire Tested: GWS-SA1D-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630324
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-SA1D-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: 5085.1 lumens
Efficiency: N/A
Efficacy: 114.8 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

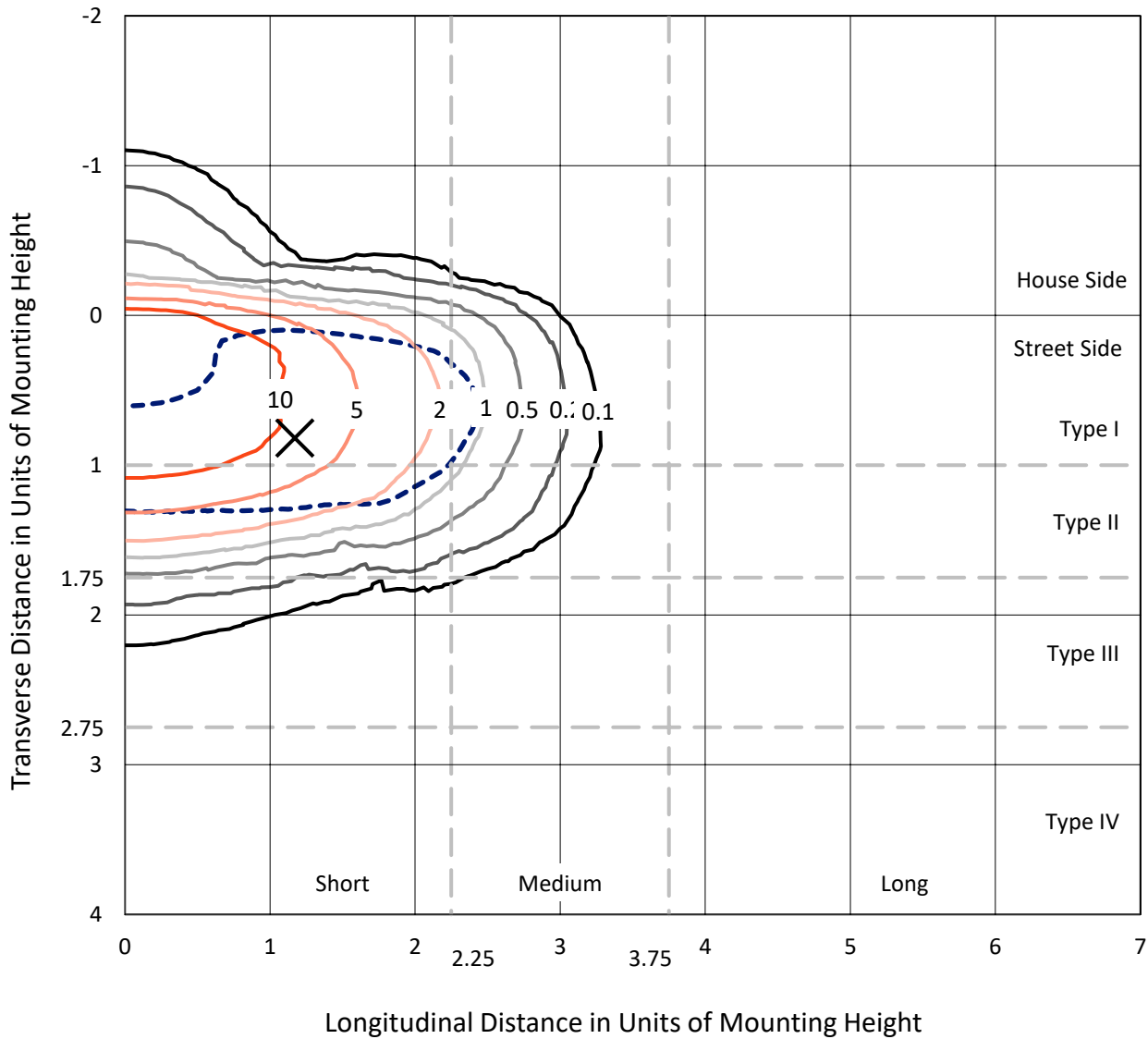
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

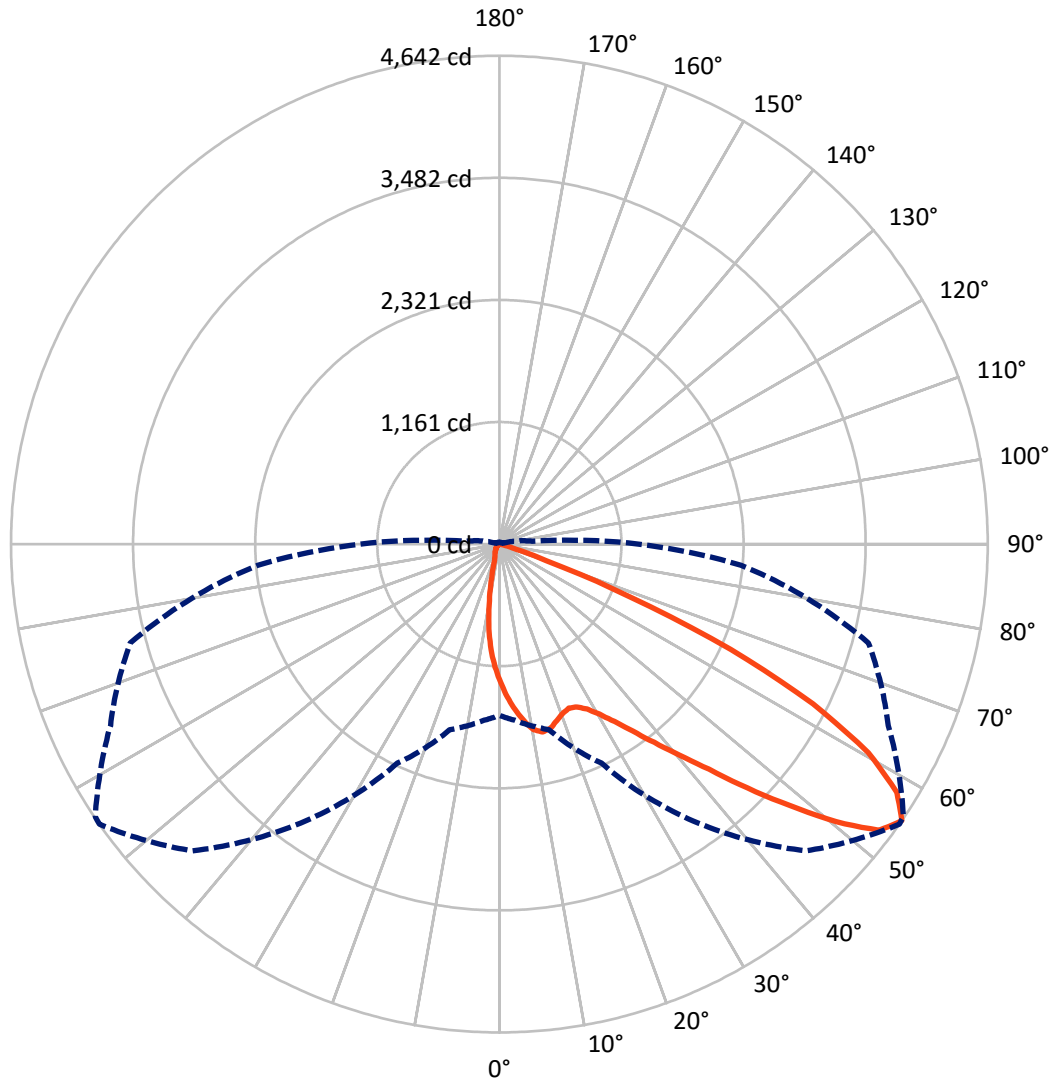
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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	313.8	0.0	313.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4771.3	0.0	4771.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	5085.1	0.0	5085.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.3
10°-20°	279.9	5.5
20°-30°	466.1	9.2
30°-40°	794.3	15.6
40°-50°	1296.6	25.5
50°-60°	1357.5	26.7
60°-70°	684.7	13.5
70°-80°	86.5	1.7
80°-90°	3.3	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°	5085.1	100.0
0°-180°	5085.1	100.0

Coefficient of Utilization



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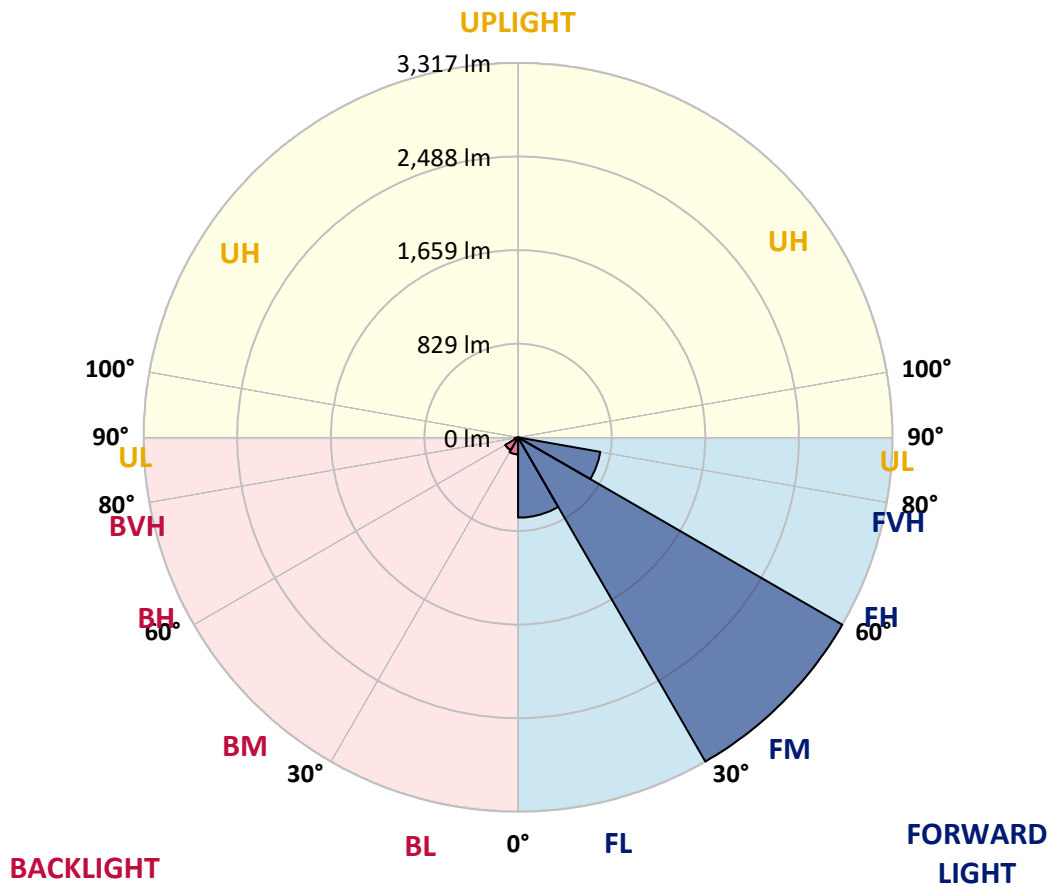
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.3	14.0			
FM (30°-60°)	3317.3	65.2			
FH (60°-80°)	739.7	14.5			G1/1800
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	150.8	3.0	B1/500		
BM (30°-60°)	131.2	2.6	B0/220		
BH (60°-80°)	31.5	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°	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7
2.5°	1531.5	1524.1	1535.4	1522.4	1500.2	1481.5	1457.1	1448.5	1409.3	1372.4	1336.7
5°	1717.5	1719.7	1716.2	1698.0	1666.7	1631.9	1582.8	1571.9	1503.7	1433.2	1357.2
7.5°	1763.6	1762.3	1769.7	1776.7	1771.4	1754.1	1700.6	1689.7	1604.9	1499.3	1388.5
10°	1621.5	1622.3	1637.6	1684.5	1742.8	1803.2	1794.9	1788.8	1705.8	1574.1	1423.2
12.5°	1420.6	1428.5	1444.5	1511.5	1610.2	1747.5	1832.7	1838.8	1798.4	1656.2	1464.1
15°	1333.7	1335.4	1348.5	1388.9	1462.4	1631.9	1816.7	1833.6	1875.8	1738.8	1508.4
17.5°	1331.5	1333.7	1339.3	1357.2	1405.0	1541.0	1764.9	1794.5	1934.0	1827.5	1561.5
20°	1413.2	1411.9	1408.0	1398.5	1419.3	1511.1	1717.1	1749.7	1965.8	1914.0	1614.9
22.5°	1561.5	1559.7	1542.3	1502.8	1485.8	1538.4	1693.6	1723.2	1984.9	1991.0	1658.9
25°	1732.3	1744.5	1711.9	1651.9	1610.2	1608.4	1714.5	1735.4	2001.4	2059.2	1688.8
27.5°	1919.7	1923.6	1895.8	1828.4	1768.0	1720.6	1774.9	1790.6	2019.7	2120.1	1705.8
30°	2125.3	2124.0	2092.3	2014.0	1940.5	1872.3	1876.6	1882.7	2062.3	2189.6	1724.5
32.5°	2382.2	2387.9	2331.3	2224.8	2136.6	2042.3	2009.7	2010.5	2139.2	2279.2	1752.7
35°	2731.3	2717.4	2642.6	2490.9	2340.5	2238.8	2183.1	2178.3	2257.9	2399.6	1801.9
37.5°	3063.8	3065.1	2986.9	2820.0	2630.0	2469.6	2390.9	2377.9	2424.8	2566.5	1883.6
40°	3294.7	3299.0	3266.4	3179.0	2977.8	2750.8	2635.2	2621.7	2641.3	2777.8	1990.5
42.5°	3416.8	3429.0	3438.1	3458.5	3306.0	3102.1	2924.3	2923.0	2902.6	3018.6	2114.4
45°	3421.6	3439.9	3495.5	3635.0	3652.4	3502.9	3309.4	3280.3	3201.6	3276.4	2225.3
47.5°	3232.5	3274.7	3392.9	3669.4	3852.0	3901.5	3709.8	3692.0	3471.2	3480.3	2308.3
50°	2791.7	2835.6	3053.4	3493.3	3902.4	4218.0	4149.3	4112.4	3696.3	3615.0	2348.3
52.5°	2339.6	2379.6	2527.4	3074.3	3693.3	4317.5	4519.7	4475.8	3898.5	3662.0	2331.8
55°	1628.0	1681.5	1825.8	2297.9	3211.6	4123.7	4642.3	4633.1	4078.9	3632.4	2306.1
57.5°	798.1	851.2	995.0	1416.7	2379.2	3600.3	4454.9	4503.2	4186.7	3600.7	2285.3
60°	333.4	355.2	404.7	621.6	1331.1	2720.8	4031.9	4098.9	4120.6	3557.7	2283.1
62.5°	193.4	196.9	202.1	257.8	517.7	1559.7	3344.7	3439.9	3773.3	3500.7	2248.8
65°	146.1	147.4	145.2	158.2	213.9	591.6	2416.5	2546.1	3149.5	3278.1	2113.1
67.5°	120.0	120.0	114.3	116.9	134.3	221.7	1334.1	1515.0	2330.5	2694.3	1744.9
70°	95.6	97.8	95.2	91.7	96.1	122.6	474.7	588.6	1357.2	1591.0	1017.7
72.5°	72.6	72.6	76.9	74.3	71.3	76.9	165.6	186.1	544.7	663.4	367.3
75°	56.1	57.8	60.9	58.3	53.9	45.6	79.6	84.3	164.3	154.3	82.2
77.5°	28.7	29.1	38.7	42.6	40.0	27.8	34.8	38.3	53.5	47.8	30.4
80°	17.4	18.3	21.7	33.5	26.5	14.8	14.3	15.2	25.2	21.7	12.6
82.5°	7.4	7.8	12.2	12.2	10.9	5.7	5.7	5.7	12.2	11.3	5.2
85°	0.0	0.0	2.2	1.7	1.7	2.2	2.2	2.2	3.0	4.3	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.3
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°	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7
2.5°	1313.7	1285.9	1248.5	1214.6	1168.9	1143.3	1107.6	1078.5	1053.7	1045.9	1042.4
5°	1314.1	1266.3	1186.3	1106.3	1008.1	930.7	851.2	788.1	736.4	719.9	715.5
7.5°	1322.8	1252.4	1122.9	977.7	813.3	677.7	556.4	447.8	397.3	380.4	376.9
10°	1334.6	1240.7	1049.4	823.3	587.3	413.0	292.6	223.0	190.0	171.7	174.3
12.5°	1349.8	1231.1	968.1	656.4	388.6	226.9	160.8	134.8	127.8	124.3	122.6
15°	1370.2	1219.8	867.2	490.8	238.2	146.1	123.9	116.9	114.3	112.6	112.2
17.5°	1391.1	1206.8	764.7	345.2	158.2	121.3	111.3	107.8	106.1	104.8	104.3
20°	1413.2	1184.6	644.2	237.8	124.8	109.1	102.6	98.7	96.5	94.3	93.9
22.5°	1422.8	1148.9	529.0	166.5	110.9	100.4	92.2	87.4	84.8	83.0	83.0
25°	1413.7	1091.1	409.9	126.5	100.9	90.9	82.6	77.4	75.2	73.5	73.5
27.5°	1389.3	1016.8	299.1	104.8	90.0	80.9	73.0	68.2	66.5	65.6	65.6
30°	1362.4	922.9	210.8	90.0	77.8	70.4	63.9	60.9	60.4	59.6	59.6
32.5°	1339.3	835.1	145.2	79.1	68.7	61.3	56.9	55.6	56.1	55.2	55.6
35°	1326.7	749.0	107.8	70.4	61.3	54.3	52.2	52.2	52.2	51.7	51.7
37.5°	1331.9	664.2	87.8	64.3	54.8	49.6	47.4	48.3	49.1	49.1	49.1
40°	1358.0	589.0	77.8	58.7	49.1	45.2	43.5	44.8	46.1	46.9	46.9
42.5°	1391.1	528.2	70.4	53.9	45.2	40.9	40.0	41.3	42.6	43.5	43.5
45°	1411.9	466.9	63.0	47.8	41.3	36.1	36.1	37.8	37.4	37.8	37.8
47.5°	1421.5	418.2	55.6	41.3	35.2	31.3	31.7	32.6	31.7	32.6	32.6
50°	1398.0	369.1	49.1	34.3	29.1	27.4	28.3	27.8	27.8	29.6	29.6
52.5°	1355.0	332.6	43.5	29.1	24.8	24.3	25.2	23.5	23.9	23.9	23.5
55°	1323.3	311.7	38.7	25.2	21.3	21.7	21.3	18.3	16.5	14.8	14.3
57.5°	1307.6	303.4	35.2	22.6	19.1	19.1	17.4	12.6	9.6	7.4	6.5
60°	1304.1	293.4	31.7	19.6	17.0	16.1	12.6	7.4	4.8	3.5	3.0
62.5°	1271.1	269.1	28.7	15.6	14.8	13.0	7.8	4.3	2.6	1.7	1.3
65°	1162.8	221.3	25.6	12.2	11.3	9.6	4.8	2.6	1.3	0.4	0.0
67.5°	925.1	156.9	22.6	9.1	7.8	6.1	3.0	1.7	0.4	0.0	0.0
70°	533.4	84.8	18.7	6.5	5.2	3.9	2.2	0.9	0.0	0.0	0.0
72.5°	178.2	39.6	14.3	4.3	3.9	3.0	1.3	0.4	0.0	0.0	0.0
75°	39.1	23.5	9.6	3.0	2.6	2.2	0.9	0.0	0.0	0.0	0.0
77.5°	14.8	16.5	4.8	2.2	1.7	1.3	0.4	0.0	0.0	0.0	0.0
80°	5.7	10.9	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	4.3	1.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	2.2	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.4	0.4	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)