

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: P630434

Luminaire Tested: GWS-SA1D-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630434  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

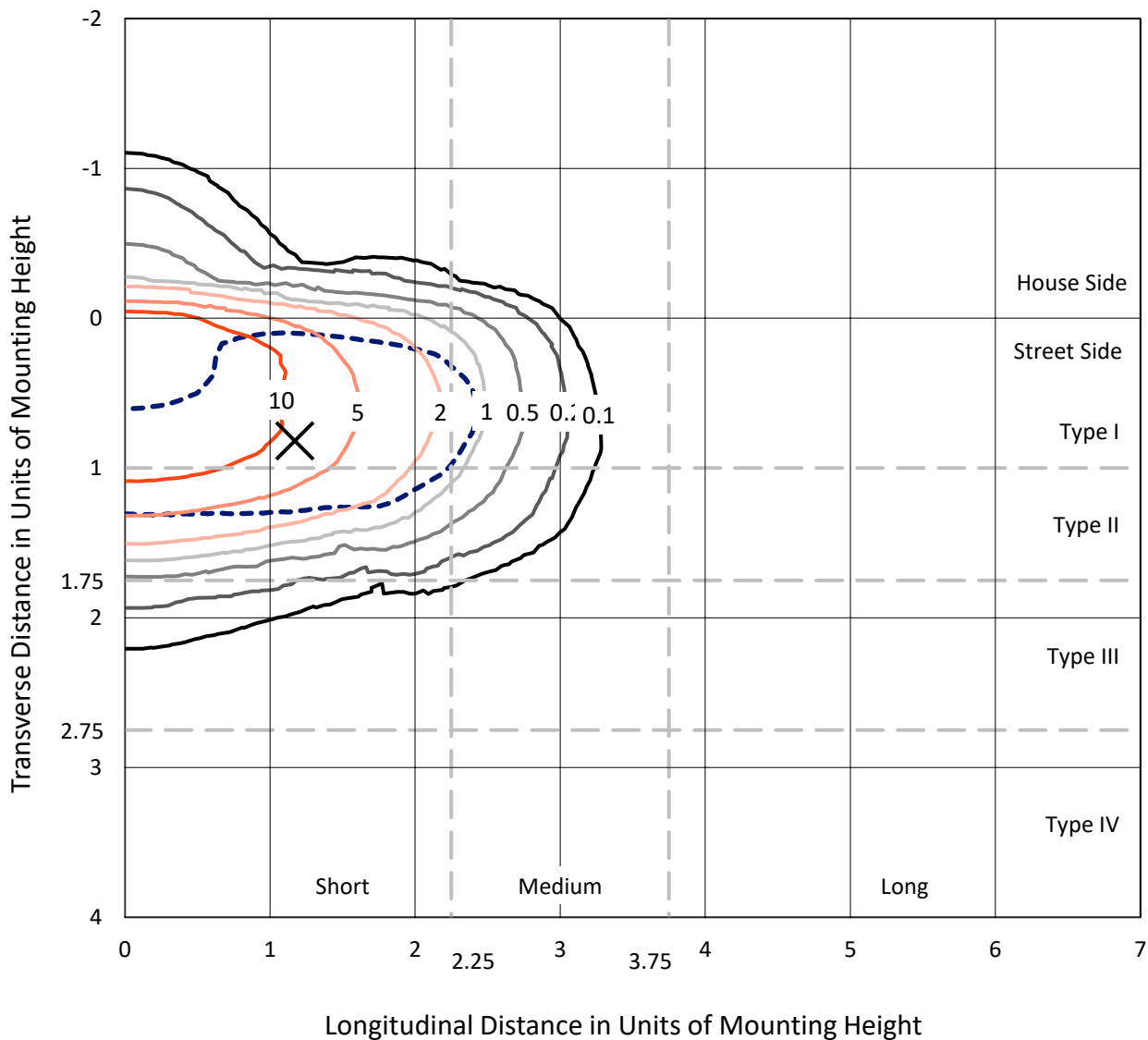
Lumens per Lamp: N/A  
Luminaire Lumens: 5130.3 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

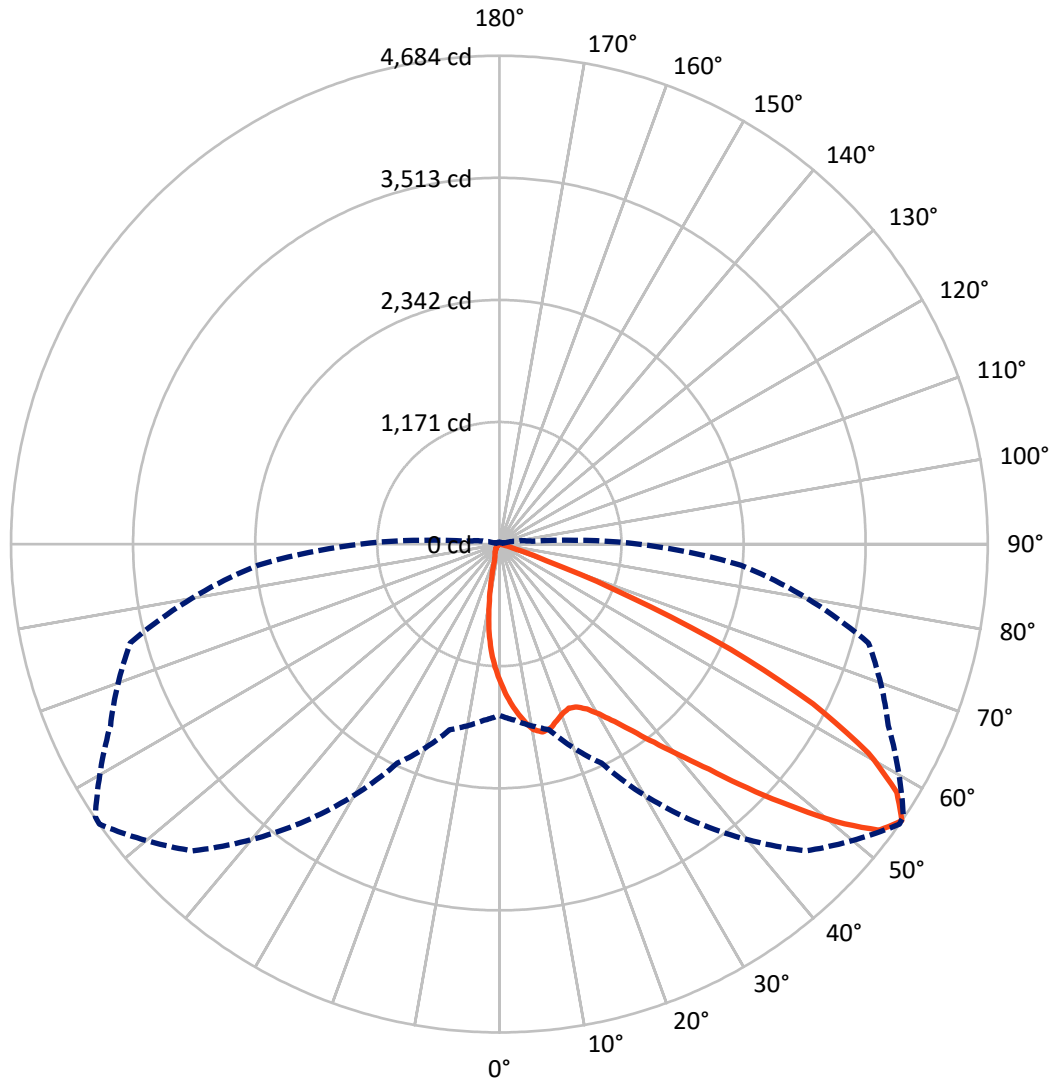
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 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
<b>House Side</b>	Lumens	316.6	0.0	316.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4813.7	0.0	4813.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5130.3	0.0	5130.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	2.3
10°-20°	282.4	5.5
20°-30°	470.3	9.2
30°-40°	801.4	15.6
40°-50°	1308.2	25.5
50°-60°	1369.6	26.7
60°-70°	690.8	13.5
70°-80°	87.3	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°	5130.3	100.0
0°-180°	5130.3	100.0

**Coefficient of Utilization**



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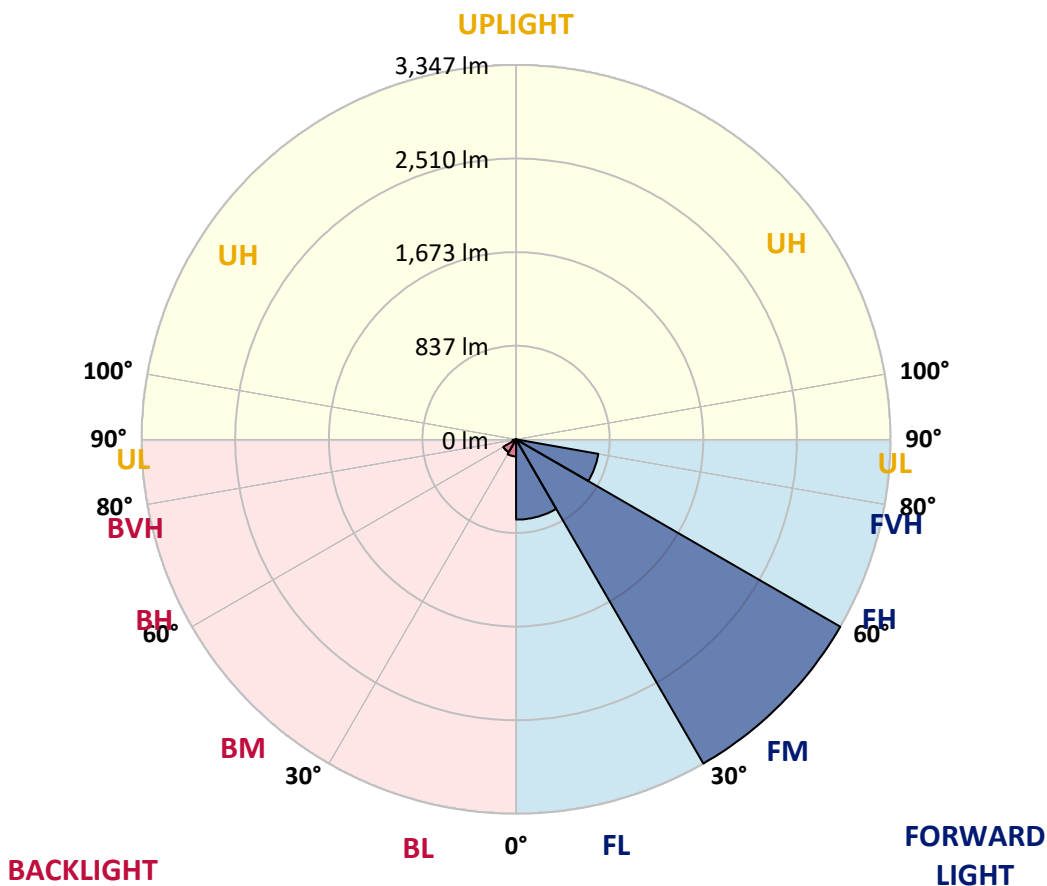
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.7	14.0			
FM (30°-60°)	3346.8	65.2			
FH (60°-80°)	746.3	14.5			G1/1800
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	152.2	3.0	B1/500		
BM (30°-60°)	132.4	2.6	B0/220		
BH (60°-80°)	31.8	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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1545.1	1537.6	1549.0	1535.9	1513.5	1494.7	1470.1	1461.3	1421.9	1384.6	1348.6
5°	1732.8	1735.0	1731.5	1713.1	1681.5	1646.4	1596.8	1585.9	1517.0	1446.0	1369.2
7.5°	1779.3	1778.0	1785.4	1792.4	1787.2	1769.6	1715.7	1704.7	1619.2	1512.6	1400.8
10°	1635.9	1636.8	1652.1	1699.5	1758.2	1819.2	1810.9	1804.7	1721.0	1588.1	1435.9
12.5°	1433.3	1441.2	1457.4	1524.9	1624.5	1763.1	1849.0	1855.2	1814.4	1671.0	1477.1
15°	1345.5	1347.3	1360.5	1401.2	1475.4	1646.4	1832.8	1849.9	1892.4	1754.3	1521.8
17.5°	1343.4	1345.5	1351.2	1369.2	1417.5	1554.7	1780.6	1810.4	1951.2	1843.8	1575.4
20°	1425.8	1424.5	1420.5	1410.9	1431.9	1524.5	1732.4	1765.3	1983.2	1931.0	1629.3
22.5°	1575.4	1573.6	1556.1	1516.1	1499.0	1552.1	1708.7	1738.5	2002.5	2008.7	1673.6
25°	1747.7	1760.0	1727.1	1666.6	1624.5	1622.7	1729.7	1750.8	2019.2	2077.5	1703.9
27.5°	1936.7	1940.7	1912.6	1844.6	1783.7	1735.9	1790.7	1806.5	2037.6	2138.9	1721.0
30°	2144.2	2142.9	2110.9	2031.9	1957.8	1888.9	1893.3	1899.5	2080.6	2209.1	1739.8
32.5°	2403.4	2409.1	2352.1	2244.6	2155.6	2060.4	2027.5	2028.4	2158.2	2299.4	1768.3
35°	2755.6	2741.5	2666.1	2513.0	2361.3	2258.7	2202.5	2197.7	2278.0	2420.9	1817.9
37.5°	3091.1	3092.4	3013.4	2845.0	2653.4	2491.5	2412.2	2399.0	2446.4	2589.3	1900.3
40°	3323.9	3328.3	3295.4	3207.3	3004.2	2775.3	2658.6	2645.0	2664.8	2802.5	2008.2
42.5°	3447.2	3459.5	3468.7	3489.3	3335.4	3129.7	2950.3	2949.0	2928.4	3045.5	2133.2
45°	3452.0	3470.4	3526.6	3667.4	3684.9	3534.0	3338.9	3309.5	3230.1	3305.5	2245.1
47.5°	3261.2	3303.8	3423.1	3702.0	3886.2	3936.2	3742.8	3724.8	3502.0	3511.2	2328.8
50°	2816.5	2860.8	3080.5	3524.4	3937.1	4255.5	4186.2	4148.9	3729.2	3647.2	2369.2
52.5°	2360.4	2400.8	2549.9	3101.6	3726.1	4355.9	4559.8	4515.6	3933.1	3694.5	2352.5
55°	1642.5	1696.4	1842.0	2318.3	3240.2	4160.3	4683.5	4674.3	4115.1	3664.7	2326.6
57.5°	805.2	858.7	1003.9	1429.3	2400.3	3632.3	4494.5	4543.2	4223.9	3632.7	2305.6
60°	336.4	358.3	408.3	627.2	1342.9	2745.0	4067.8	4135.3	4157.2	3589.3	2303.4
62.5°	195.2	198.7	203.9	260.1	522.3	1573.6	3374.4	3470.4	3806.8	3531.8	2268.7
65°	147.4	148.7	146.5	159.6	215.8	596.9	2438.0	2568.7	3177.5	3307.3	2131.9
67.5°	121.0	121.0	115.3	118.0	135.5	223.7	1346.0	1528.4	2351.2	2718.3	1760.4
70°	96.5	98.7	96.0	92.5	96.9	123.7	478.9	593.8	1369.2	1605.2	1026.7
72.5°	73.2	73.2	77.6	75.0	71.9	77.6	167.1	187.7	549.5	669.3	370.6
75°	56.6	58.3	61.4	58.8	54.4	46.1	80.3	85.1	165.8	155.7	82.9
77.5°	28.9	29.4	39.0	43.0	40.3	28.1	35.1	38.6	53.9	48.2	30.7
80°	17.5	18.4	21.9	33.8	26.8	14.9	14.5	15.4	25.4	21.9	12.7
82.5°	7.5	7.9	12.3	12.3	11.0	5.7	5.7	5.7	12.3	11.4	5.3
85°	0.0	0.0	2.2	1.8	1.8	2.2	2.2	2.2	3.1	4.4	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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1325.4	1297.3	1259.6	1225.4	1179.3	1153.4	1117.5	1088.1	1063.1	1055.2	1051.7
5°	1325.8	1277.6	1196.9	1116.2	1017.1	939.0	858.7	795.1	742.9	726.3	721.9
7.5°	1334.6	1263.5	1132.8	986.4	820.6	683.7	561.4	451.7	400.9	383.8	380.2
10°	1346.4	1251.7	1058.7	830.7	592.5	416.6	295.2	225.0	191.7	173.2	175.9
12.5°	1361.8	1242.0	976.7	662.2	392.1	228.9	162.3	136.0	128.9	125.4	123.7
15°	1382.4	1230.6	875.0	495.1	240.3	147.4	125.0	118.0	115.3	113.6	113.2
17.5°	1403.4	1217.5	771.5	348.2	159.6	122.4	112.3	108.8	107.0	105.7	105.3
20°	1425.8	1195.1	650.0	239.9	125.9	110.1	103.5	99.6	97.4	95.2	94.7
22.5°	1435.5	1159.1	533.7	168.0	111.8	101.3	93.0	88.2	85.5	83.8	83.8
25°	1426.2	1100.8	413.6	127.6	101.7	91.7	83.3	78.1	75.9	74.1	74.1
27.5°	1401.7	1025.8	301.7	105.7	90.8	81.6	73.7	68.9	67.1	66.2	66.2
30°	1374.5	931.1	212.7	90.8	78.5	71.0	64.5	61.4	61.0	60.1	60.1
32.5°	1351.2	842.5	146.5	79.8	69.3	61.8	57.5	56.1	56.6	55.7	56.1
35°	1338.5	755.7	108.8	71.0	61.8	54.8	52.6	52.6	52.6	52.2	52.2
37.5°	1343.8	670.1	88.6	64.9	55.3	50.0	47.8	48.7	49.6	49.6	49.6
40°	1370.1	594.3	78.5	59.2	49.6	45.6	43.9	45.2	46.5	47.4	47.4
42.5°	1403.4	532.9	71.0	54.4	45.6	41.2	40.3	41.7	43.0	43.9	43.9
45°	1424.5	471.0	63.6	48.2	41.7	36.4	36.4	38.2	37.7	38.2	38.2
47.5°	1434.1	421.9	56.1	41.7	35.5	31.6	32.0	32.9	32.0	32.9	32.9
50°	1410.5	372.3	49.6	34.6	29.4	27.6	28.5	28.1	28.1	29.8	29.8
52.5°	1367.0	335.5	43.9	29.4	25.0	24.6	25.4	23.7	24.1	24.1	23.7
55°	1335.0	314.5	39.0	25.4	21.5	21.9	21.5	18.4	16.7	14.9	14.5
57.5°	1319.2	306.1	35.5	22.8	19.3	19.3	17.5	12.7	9.6	7.5	6.6
60°	1315.7	296.0	32.0	19.7	17.1	16.2	12.7	7.5	4.8	3.5	3.1
62.5°	1282.4	271.5	28.9	15.8	14.9	13.2	7.9	4.4	2.6	1.8	1.3
65°	1173.2	223.2	25.9	12.3	11.4	9.6	4.8	2.6	1.3	0.4	0.0
67.5°	933.3	158.3	22.8	9.2	7.9	6.1	3.1	1.8	0.4	0.0	0.0
70°	538.1	85.5	18.9	6.6	5.3	3.9	2.2	0.9	0.0	0.0	0.0
72.5°	179.8	39.9	14.5	4.4	3.9	3.1	1.3	0.4	0.0	0.0	0.0
75°	39.5	23.7	9.6	3.1	2.6	2.2	0.9	0.0	0.0	0.0	0.0
77.5°	14.9	16.7	4.8	2.2	1.8	1.3	0.4	0.0	0.0	0.0	0.0
80°	5.7	11.0	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	4.4	1.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	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)