

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: P631864

Luminaire Tested: GWS-SA2B-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631864  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

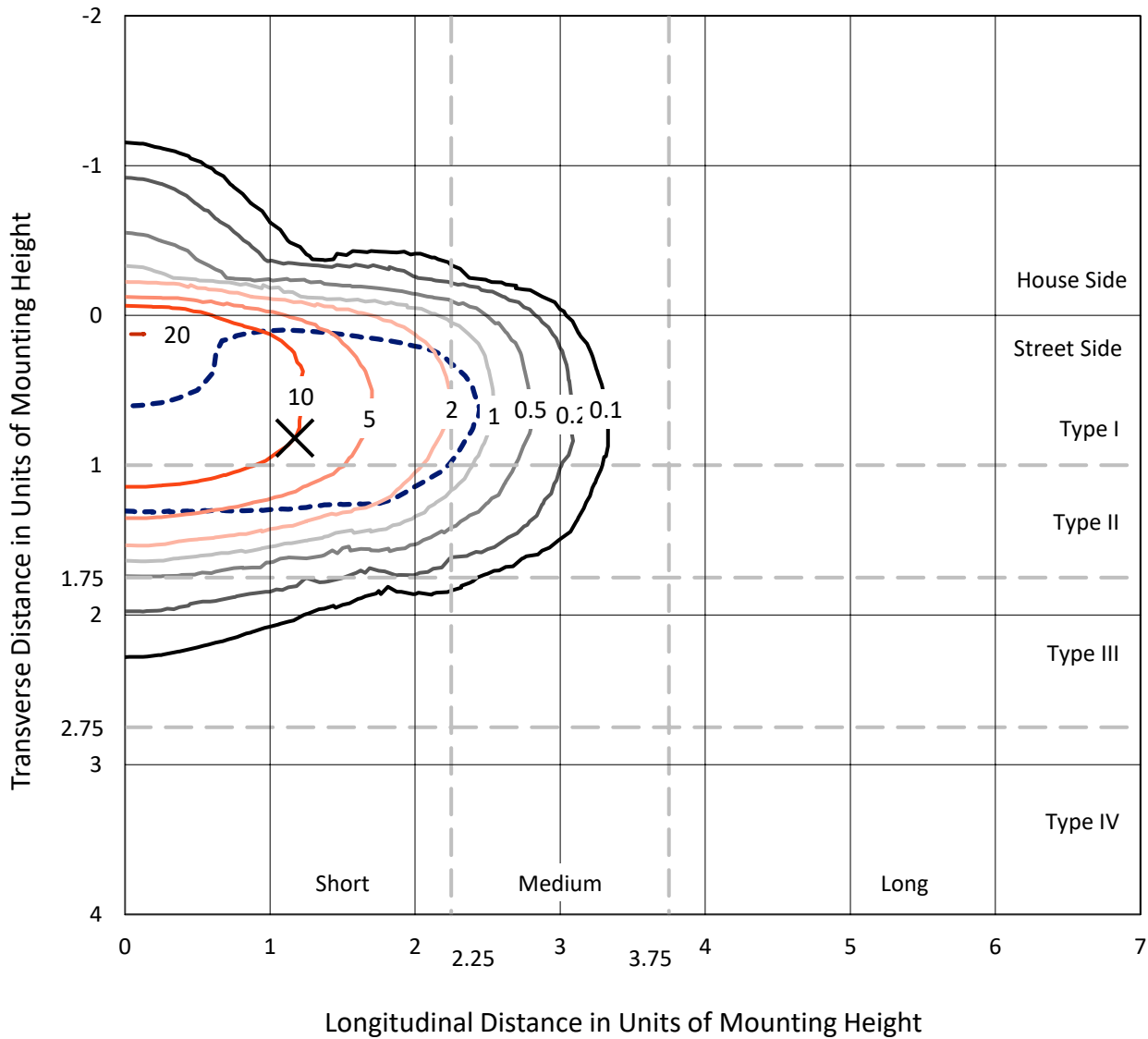
Lumens per Lamp: N/A  
Luminaire Lumens: 5920 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

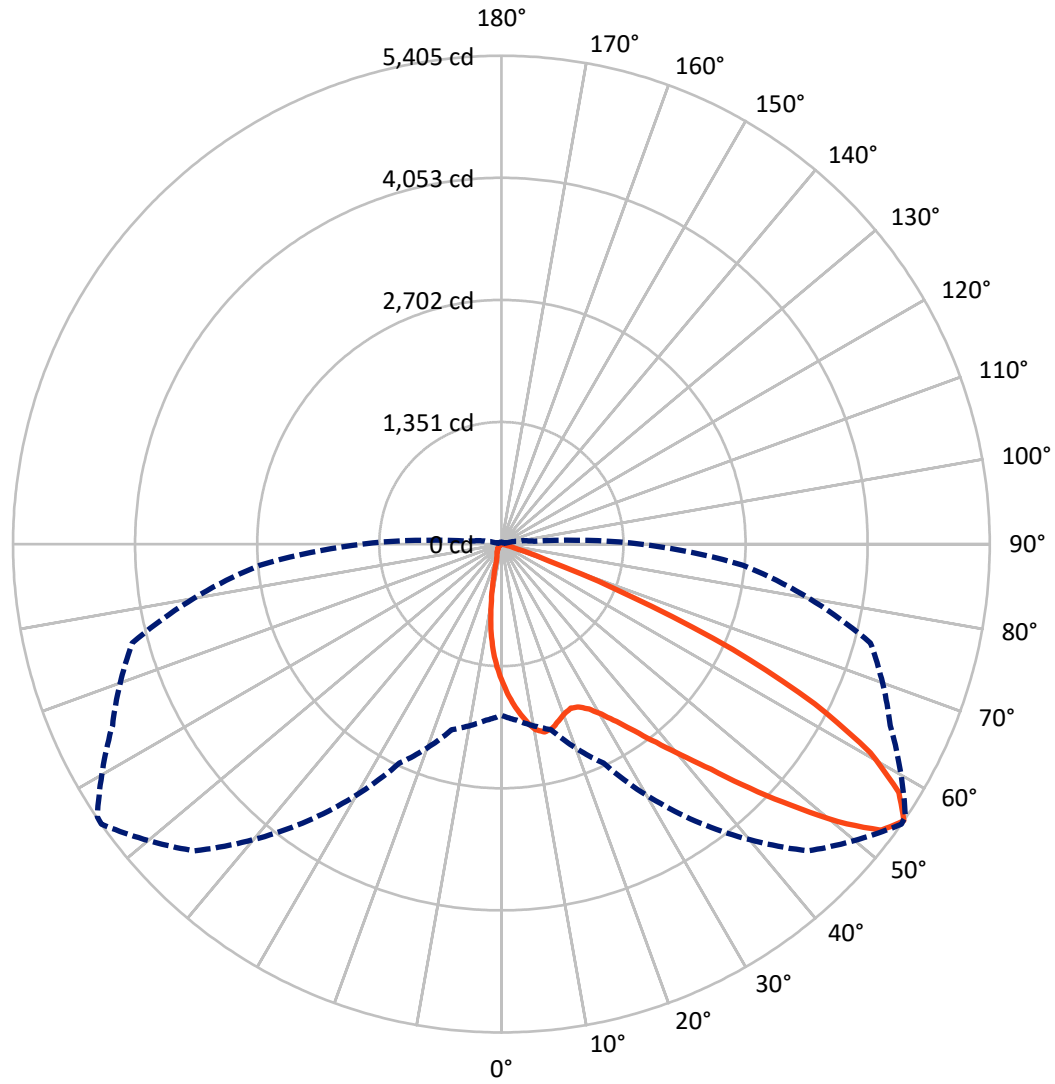
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 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	365.3	0.0	365.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5554.7	0.0	5554.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5920.0	0.0	5920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.2	2.3
10°-20°	325.9	5.5
20°-30°	542.7	9.2
30°-40°	924.8	15.6
40°-50°	1509.5	25.5
50°-60°	1580.4	26.7
60°-70°	797.1	13.5
70°-80°	100.7	1.7
80°-90°	3.8	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°	5920.0	100.0
0°-180°	5920.0	100.0

**Coefficient of Utilization**



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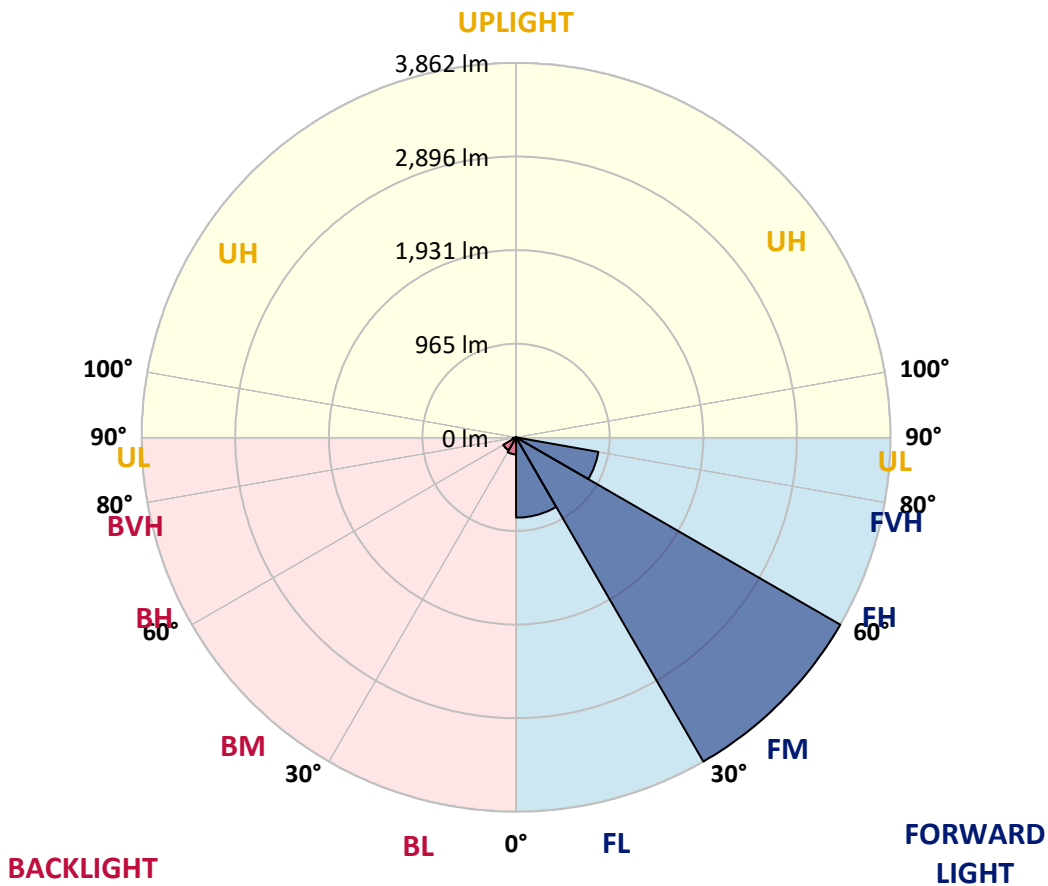
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.1	14.0			
FM (30°-60°)	3861.9	65.2			
FH (60°-80°)	861.2	14.5			G1/1800
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	175.6	3.0	B1/500		
BM (30°-60°)	152.7	2.6	B0/220		
BH (60°-80°)	36.6	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°	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4
2.5°	1782.9	1774.3	1787.5	1772.3	1746.5	1724.7	1696.4	1686.3	1640.7	1597.7	1556.2
5°	1999.5	2002.1	1998.0	1976.8	1940.3	1899.8	1842.6	1830.0	1750.5	1668.6	1580.0
7.5°	2053.2	2051.7	2060.3	2068.4	2062.3	2042.0	1979.8	1967.1	1868.5	1745.5	1616.4
10°	1887.7	1888.7	1906.4	1961.1	2028.9	2099.2	2089.6	2082.5	1985.9	1832.5	1656.9
12.5°	1653.9	1663.0	1681.7	1759.6	1874.5	2034.5	2133.6	2140.7	2093.7	1928.2	1704.5
15°	1552.7	1554.7	1569.9	1616.9	1702.5	1899.8	2114.9	2134.7	2183.7	2024.3	1756.1
17.5°	1550.1	1552.7	1559.2	1580.0	1635.7	1794.1	2054.7	2089.1	2251.6	2127.6	1817.8
20°	1645.3	1643.8	1639.2	1628.1	1652.4	1759.1	1999.0	2037.0	2288.5	2228.3	1880.1
22.5°	1817.8	1815.8	1795.6	1749.5	1729.8	1791.0	1971.7	2006.1	2310.8	2317.9	1931.2
25°	2016.7	2030.9	1993.0	1923.1	1874.5	1872.5	1996.0	2020.3	2330.0	2397.3	1966.1
27.5°	2234.9	2239.4	2207.0	2128.6	2058.2	2003.1	2066.3	2084.6	2351.3	2468.2	1985.9
30°	2474.2	2472.7	2435.8	2344.7	2259.2	2179.7	2184.8	2191.8	2400.9	2549.1	2007.6
32.5°	2773.3	2779.9	2714.1	2590.1	2487.4	2377.6	2339.6	2340.6	2490.4	2653.4	2040.5
35°	3179.7	3163.5	3076.5	2899.9	2724.7	2606.3	2541.5	2536.0	2628.6	2793.6	2097.7
37.5°	3566.9	3568.4	3477.3	3283.0	3061.8	2875.1	2783.5	2768.3	2822.9	2987.9	2192.9
40°	3835.6	3840.7	3802.7	3701.0	3466.7	3202.5	3067.9	3052.2	3075.0	3233.9	2317.4
42.5°	3977.8	3992.0	4002.6	4026.4	3848.8	3611.4	3404.4	3402.9	3379.1	3514.2	2461.6
45°	3983.4	4004.6	4069.4	4231.9	4252.1	4078.0	3852.8	3818.9	3727.3	3814.3	2590.6
47.5°	3763.2	3812.3	3950.0	4271.8	4484.4	4542.1	4318.9	4298.2	4041.1	4051.7	2687.3
50°	3250.1	3301.2	3554.7	4066.9	4543.1	4910.5	4830.6	4787.5	4303.2	4208.6	2733.9
52.5°	2723.7	2770.3	2942.4	3579.0	4299.7	5026.4	5261.7	5210.6	4538.5	4263.2	2714.6
55°	1895.3	1957.5	2125.5	2675.2	3738.9	4800.7	5404.5	5393.8	4748.6	4228.8	2684.8
57.5°	929.2	990.9	1158.4	1649.3	2769.8	4191.4	5186.3	5242.5	4874.1	4191.9	2660.5
60°	388.2	413.5	471.2	723.7	1549.6	3167.6	4693.9	4771.9	4797.2	4141.8	2657.9
62.5°	225.2	229.3	235.3	300.1	602.7	1815.8	3893.8	4004.6	4392.8	4075.5	2618.0
65°	170.0	171.6	169.0	184.2	249.0	688.8	2813.3	2964.1	3666.6	3816.4	2460.1
67.5°	139.7	139.7	133.1	136.1	156.4	258.1	1553.2	1763.7	2713.1	3136.7	2031.4
70°	111.3	113.9	110.8	106.8	111.8	142.7	552.6	685.2	1580.0	1852.3	1184.7
72.5°	84.5	84.5	89.6	86.5	83.0	89.6	192.8	216.6	634.1	772.3	427.6
75°	65.3	67.3	70.9	67.8	62.8	53.1	92.6	98.2	191.3	179.7	95.6
77.5°	33.4	33.9	45.0	49.6	46.6	32.4	40.5	44.5	62.2	55.7	35.4
80°	20.2	21.3	25.3	39.0	30.9	17.2	16.7	17.7	29.4	25.3	14.7
82.5°	8.6	9.1	14.2	14.2	12.7	6.6	6.6	6.6	14.2	13.2	6.1
85°	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	3.5	5.1	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°	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4
2.5°	1529.4	1497.0	1453.5	1414.0	1360.9	1331.0	1289.5	1255.6	1226.7	1217.6	1213.6
5°	1529.9	1474.2	1381.1	1288.0	1173.6	1083.5	990.9	917.5	857.3	838.1	833.0
7.5°	1540.0	1458.0	1307.2	1138.2	946.9	789.0	647.8	521.3	462.6	442.8	438.8
10°	1553.7	1444.4	1221.7	958.5	683.7	480.8	340.6	259.6	221.2	199.9	202.9
12.5°	1571.4	1433.2	1127.0	764.2	452.4	264.2	187.3	156.9	148.8	144.7	142.7
15°	1595.2	1420.1	1009.6	571.4	277.3	170.0	144.2	136.1	133.1	131.1	130.6
17.5°	1619.5	1404.9	890.2	401.8	184.2	141.2	129.6	125.5	123.5	122.0	121.5
20°	1645.3	1379.1	750.0	276.8	145.2	127.0	119.4	114.9	112.4	109.8	109.3
22.5°	1656.4	1337.6	615.9	193.8	129.1	116.9	107.3	101.7	98.7	96.7	96.7
25°	1645.8	1270.3	477.2	147.3	117.4	105.8	96.2	90.1	87.6	85.5	85.5
27.5°	1617.4	1183.7	348.2	122.0	104.8	94.1	85.0	79.5	77.4	76.4	76.4
30°	1586.1	1074.4	245.5	104.8	90.6	82.0	74.4	70.9	70.3	69.3	69.3
32.5°	1559.2	972.2	169.0	92.1	80.0	71.4	66.3	64.8	65.3	64.3	64.8
35°	1544.6	872.0	125.5	82.0	71.4	63.3	60.7	60.7	60.7	60.2	60.2
37.5°	1550.6	773.3	102.2	74.9	63.8	57.7	55.2	56.2	57.2	57.2	57.2
40°	1581.0	685.7	90.6	68.3	57.2	52.6	50.6	52.1	53.6	54.7	54.7
42.5°	1619.5	614.9	82.0	62.8	52.6	47.6	46.6	48.1	49.6	50.6	50.6
45°	1643.8	543.5	73.4	55.7	48.1	42.0	42.0	44.0	43.5	44.0	44.0
47.5°	1654.9	486.9	64.8	48.1	41.0	36.4	36.9	38.0	36.9	38.0	38.0
50°	1627.6	429.7	57.2	40.0	33.9	31.9	32.9	32.4	32.4	34.4	34.4
52.5°	1577.5	387.2	50.6	33.9	28.8	28.3	29.4	27.3	27.8	27.8	27.3
55°	1540.5	362.9	45.0	29.4	24.8	25.3	24.8	21.3	19.2	17.2	16.7
57.5°	1522.3	353.2	41.0	26.3	22.3	22.3	20.2	14.7	11.1	8.6	7.6
60°	1518.2	341.6	36.9	22.8	19.7	18.7	14.7	8.6	5.6	4.0	3.5
62.5°	1479.8	313.3	33.4	18.2	17.2	15.2	9.1	5.1	3.0	2.0	1.5
65°	1353.8	257.6	29.9	14.2	13.2	11.1	5.6	3.0	1.5	0.5	0.0
67.5°	1076.9	182.7	26.3	10.6	9.1	7.1	3.5	2.0	0.5	0.0	0.0
70°	621.0	98.7	21.8	7.6	6.1	4.6	2.5	1.0	0.0	0.0	0.0
72.5°	207.5	46.1	16.7	5.1	4.6	3.5	1.5	0.5	0.0	0.0	0.0
75°	45.5	27.3	11.1	3.5	3.0	2.5	1.0	0.0	0.0	0.0	0.0
77.5°	17.2	19.2	5.6	2.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.6	12.7	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	5.1	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)