

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: P632254

Luminaire Tested: GWS-SA2C-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

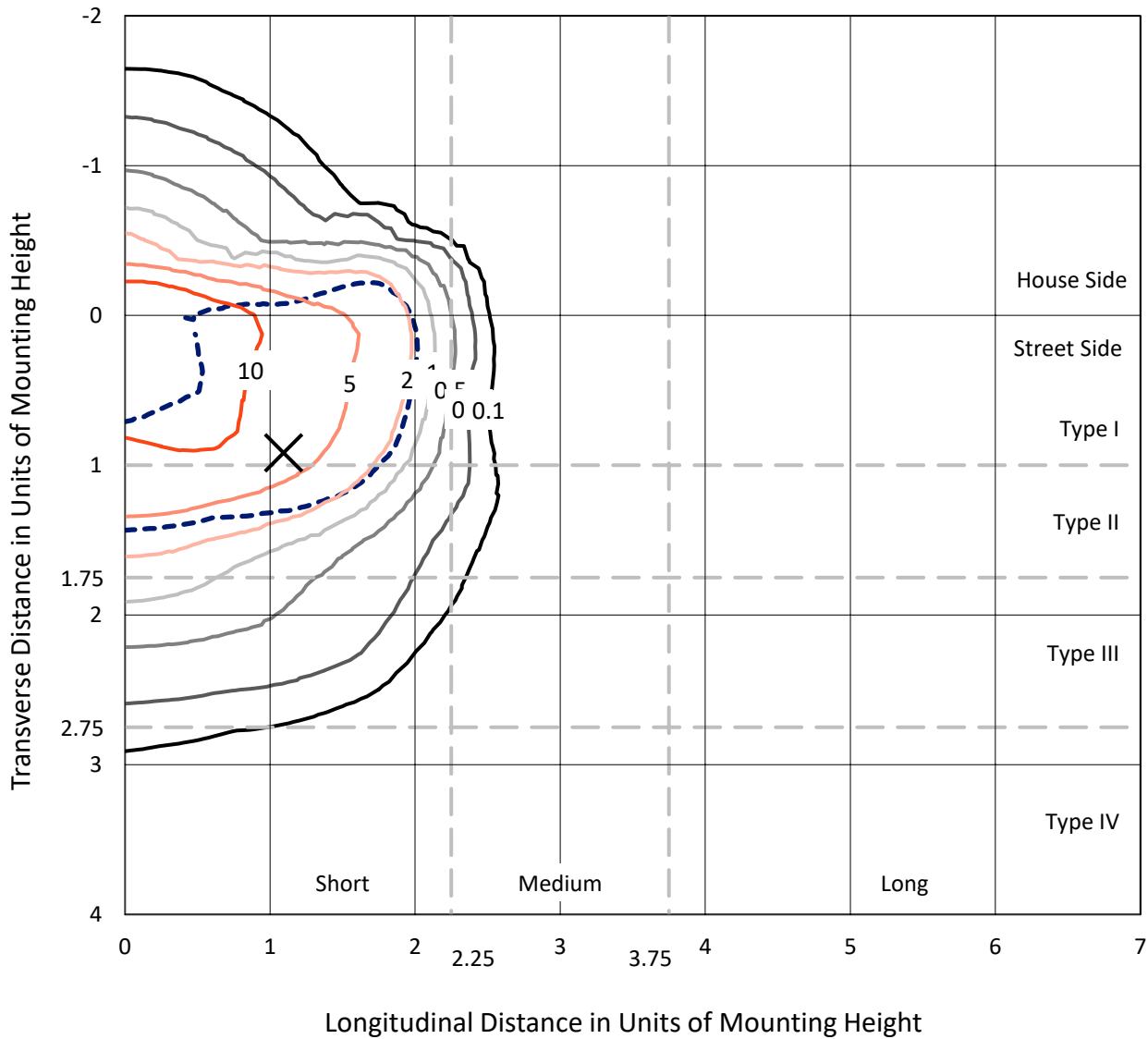
Lumens per Lamp: N/A  
Luminaire Lumens: 5360.1 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

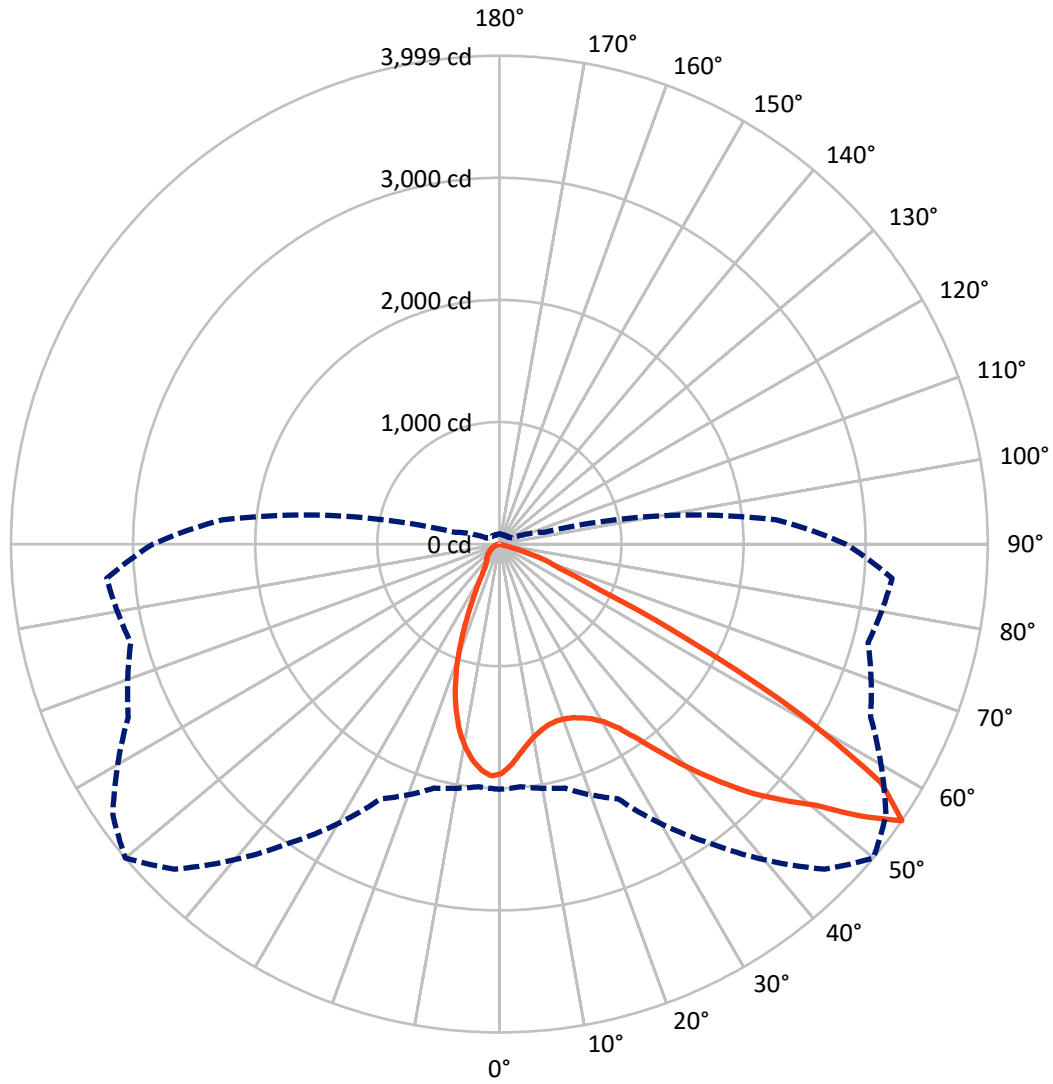
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1056.2	0.0	1056.2
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	4303.9	0.0	4303.9
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	5360.1	0.0	5360.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	3.1
10°-20°	406.4	7.6
20°-30°	573.3	10.7
30°-40°	848.3	15.8
40°-50°	1223.9	22.8
50°-60°	1443.7	26.9
60°-70°	644.0	12.0
70°-80°	55.4	1.0
80°-90°	0.0	0.0
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°	5360.1	100.0
0°-180°	5360.1	100.0

**Coefficient of Utilization**

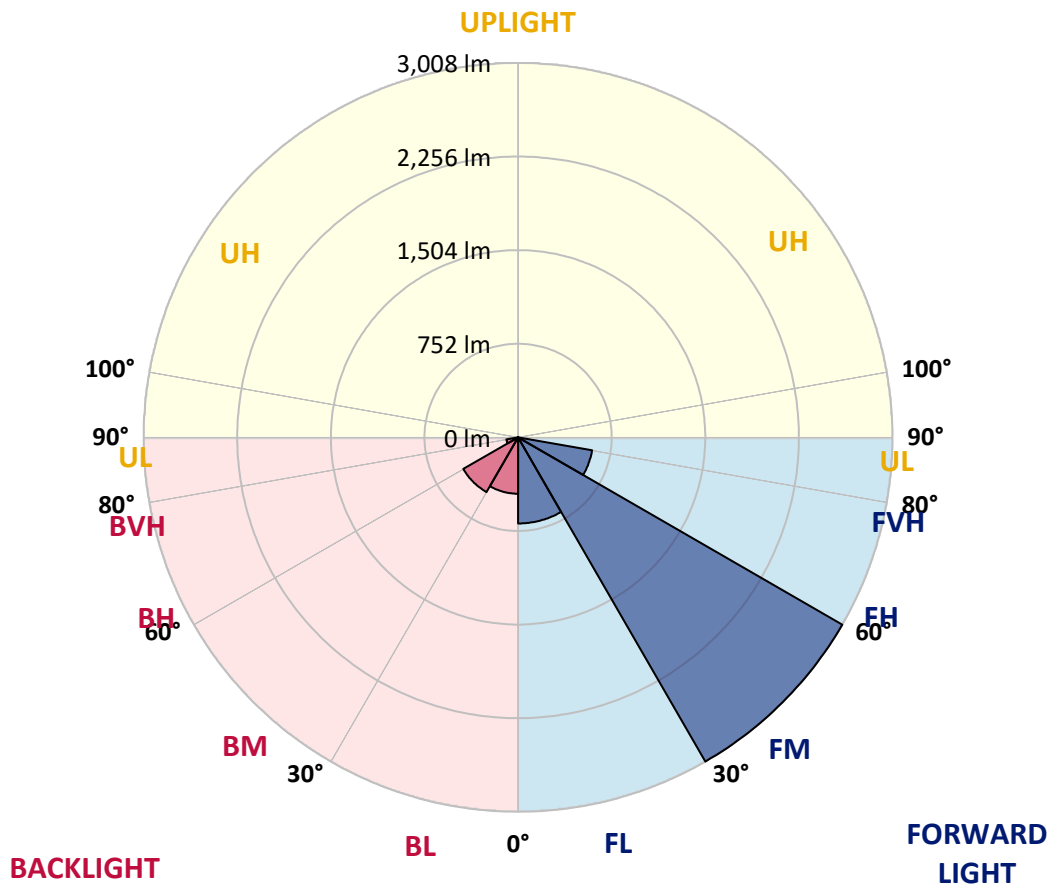


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.0	12.9			
FM (30°-60°)	3007.9	56.1			
FH (60°-80°)	604.0	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	452.9	8.4	B1/500		
BM (30°-60°)	508.0	9.5	B1/1000		
BH (60°-80°)	95.4	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1747.1	1748.4	1749.1	1766.8	1773.3	1799.5	1813.2	1820.4	1839.4	1861.6	1880.0
5°	1630.0	1628.0	1631.3	1653.6	1668.0	1706.6	1727.5	1741.9	1783.8	1836.1	1880.0
7.5°	1527.9	1531.8	1535.8	1560.0	1581.6	1623.5	1653.6	1675.2	1733.4	1811.3	1885.2
10°	1455.9	1455.9	1461.8	1489.3	1514.8	1566.5	1596.6	1624.1	1693.5	1789.0	1891.1
12.5°	1402.9	1403.6	1410.8	1442.2	1471.6	1525.3	1556.7	1583.5	1660.1	1766.8	1892.4
15°	1378.1	1376.1	1382.0	1415.4	1448.1	1498.5	1531.2	1557.4	1636.5	1754.3	1898.9
17.5°	1371.5	1370.2	1374.8	1407.5	1440.9	1490.0	1522.0	1548.2	1633.3	1758.3	1918.6
20°	1390.5	1387.9	1385.9	1414.1	1445.5	1493.9	1527.3	1556.7	1649.0	1779.9	1948.7
22.5°	1435.7	1435.7	1431.1	1444.8	1465.8	1509.6	1544.3	1582.9	1690.2	1823.0	1993.2
25°	1518.8	1512.2	1503.7	1509.6	1507.0	1534.5	1575.7	1629.3	1768.1	1894.4	2047.5
27.5°	1613.6	1619.5	1605.1	1605.8	1582.9	1573.1	1620.8	1702.0	1883.9	1995.1	2128.0
30°	1742.6	1738.0	1738.6	1736.7	1683.7	1637.2	1688.9	1796.9	2029.8	2148.9	2232.7
32.5°	1843.3	1849.9	1871.5	1883.9	1814.5	1739.9	1794.9	1925.8	2196.0	2324.3	2360.9
35°	1950.0	1961.8	2005.6	2046.2	1987.9	1902.2	1961.1	2096.6	2352.4	2497.7	2508.1
37.5°	2062.5	2086.1	2138.4	2209.8	2200.6	2124.7	2178.4	2297.4	2475.4	2602.4	2629.9
40°	2191.4	2214.3	2300.1	2402.8	2424.4	2407.4	2425.0	2494.4	2556.6	2607.0	2682.2
42.5°	2332.8	2364.2	2472.8	2610.2	2691.4	2706.4	2665.2	2658.0	2591.9	2554.6	2671.1
45°	2499.6	2536.3	2659.3	2837.3	2966.2	2986.5	2915.2	2822.9	2614.2	2516.0	2637.7
47.5°	2686.8	2721.5	2843.8	3057.8	3249.5	3257.4	3133.1	2984.5	2680.2	2560.5	2663.2
50°	2749.6	2771.2	2877.2	3128.5	3481.8	3542.0	3362.1	3166.4	2813.1	2691.4	2787.6
52.5°	2533.7	2542.2	2634.4	2888.3	3434.7	3821.4	3696.5	3438.0	3049.3	2890.9	2979.3
55°	2007.6	1993.8	2068.4	2301.4	2985.2	3764.5	3999.4	3864.6	3353.6	3125.2	3228.6
57.5°	1404.2	1387.9	1370.9	1528.6	2227.4	3191.3	3685.3	3924.2	3643.5	3357.5	3497.5
60°	1154.3	1138.6	1056.1	983.5	1346.7	2291.6	2830.7	3280.3	3619.9	3345.7	3489.0
62.5°	997.2	988.1	954.7	855.9	792.4	1308.1	1772.7	2203.2	2777.7	2627.2	2635.1
65°	783.3	780.6	803.6	814.0	700.8	723.7	904.3	1145.1	1501.7	1416.0	1342.7
67.5°	535.3	529.4	572.6	704.1	674.0	571.3	529.4	534.0	649.8	397.2	315.4
70°	340.3	326.5	327.2	436.5	548.4	450.9	408.3	359.2	323.3	58.9	66.7
72.5°	217.9	209.4	179.9	197.0	253.9	219.9	221.8	191.1	127.6	31.4	36.6
75°	91.6	84.4	64.8	51.7	51.0	32.1	28.1	26.2	17.7	17.7	19.0
77.5°	0.7	0.0	0.0	0.7	1.3	0.7	0.7	1.3	2.6	3.9	4.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1891.1	1875.4	1893.1	1899.6	1898.9	1899.6	1880.6	1867.5	1866.9	1850.5	1842.7
5°	1898.3	1885.9	1898.9	1890.4	1870.2	1844.6	1810.6	1781.2	1768.1	1749.1	1739.9
7.5°	1912.0	1898.9	1897.0	1863.0	1812.6	1758.9	1698.7	1645.1	1616.3	1581.6	1583.5
10°	1921.8	1906.8	1881.3	1811.9	1728.2	1642.4	1552.8	1473.0	1422.6	1376.1	1368.3
12.5°	1925.8	1903.5	1844.0	1739.3	1621.5	1509.6	1378.1	1264.2	1185.7	1124.8	1116.3
15°	1933.0	1897.0	1796.2	1651.6	1490.0	1331.6	1164.1	1008.4	904.3	834.3	840.2
17.5°	1944.1	1889.8	1742.6	1553.4	1348.6	1124.8	898.4	719.8	624.3	583.7	584.3
20°	1959.8	1881.3	1683.7	1445.5	1179.2	891.2	628.2	493.4	466.6	465.2	463.3
22.5°	1980.7	1872.8	1620.8	1327.0	978.3	624.3	418.1	376.3	387.4	409.0	412.9
25°	2005.6	1862.3	1550.8	1193.5	759.1	409.6	313.4	306.9	333.7	362.5	369.1
27.5°	2044.2	1857.1	1471.0	1041.7	532.6	293.8	256.5	260.4	284.6	308.9	314.7
30°	2109.6	1866.9	1384.0	871.6	342.2	234.3	222.5	228.4	241.5	253.9	259.1
32.5°	2198.6	1895.7	1299.6	685.8	244.1	203.5	200.9	204.2	209.4	216.6	218.6
35°	2302.7	1945.4	1212.5	490.8	201.5	185.8	183.2	183.2	185.8	187.1	187.8
37.5°	2388.4	1997.8	1130.7	326.5	180.6	172.1	168.2	166.2	165.6	166.9	167.5
40°	2425.7	2019.3	1041.7	237.5	165.6	159.7	153.8	147.9	147.9	152.5	153.1
42.5°	2399.5	1995.1	939.0	196.3	155.1	146.6	137.4	132.2	134.8	139.4	140.7
45°	2343.9	1935.6	825.8	173.4	144.6	133.5	123.0	119.7	122.4	128.3	129.6
47.5°	2334.7	1896.3	690.3	158.4	133.5	122.4	111.2	108.0	111.2	115.8	117.1
50°	2425.7	1930.4	539.8	145.3	123.0	110.6	101.4	98.2	100.1	102.7	104.0
52.5°	2591.9	2056.6	435.8	132.8	110.6	98.8	92.9	89.0	89.0	91.6	92.3
55°	2837.3	2277.2	376.3	118.4	96.2	89.6	84.4	80.5	80.5	81.8	82.4
57.5°	3120.0	2544.1	390.0	99.5	84.4	81.1	76.6	73.3	74.6	74.6	74.6
60°	3080.7	2524.5	417.5	83.8	74.6	73.3	69.4	68.1	71.3	68.7	67.4
62.5°	2269.3	1743.9	218.6	68.7	64.1	62.8	60.2	62.8	67.4	60.2	57.6
65°	1101.9	844.1	87.7	56.3	54.3	53.0	51.7	55.6	58.2	47.1	44.5
67.5°	259.1	210.7	56.9	47.8	45.2	42.5	43.8	44.5	42.5	32.1	30.8
70°	67.4	66.1	44.5	39.9	36.0	33.4	33.4	32.7	28.1	20.3	19.0
72.5°	36.6	36.0	32.1	30.1	24.9	22.2	22.9	20.3	15.7	11.8	11.1
75°	18.3	19.6	18.3	17.0	13.7	12.4	12.4	11.1	7.9	4.6	4.6
77.5°	3.9	4.6	4.6	3.9	3.3	2.6	2.6	3.3	1.3	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)