

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: P632835

Luminaire Tested: GWS-SA2D-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

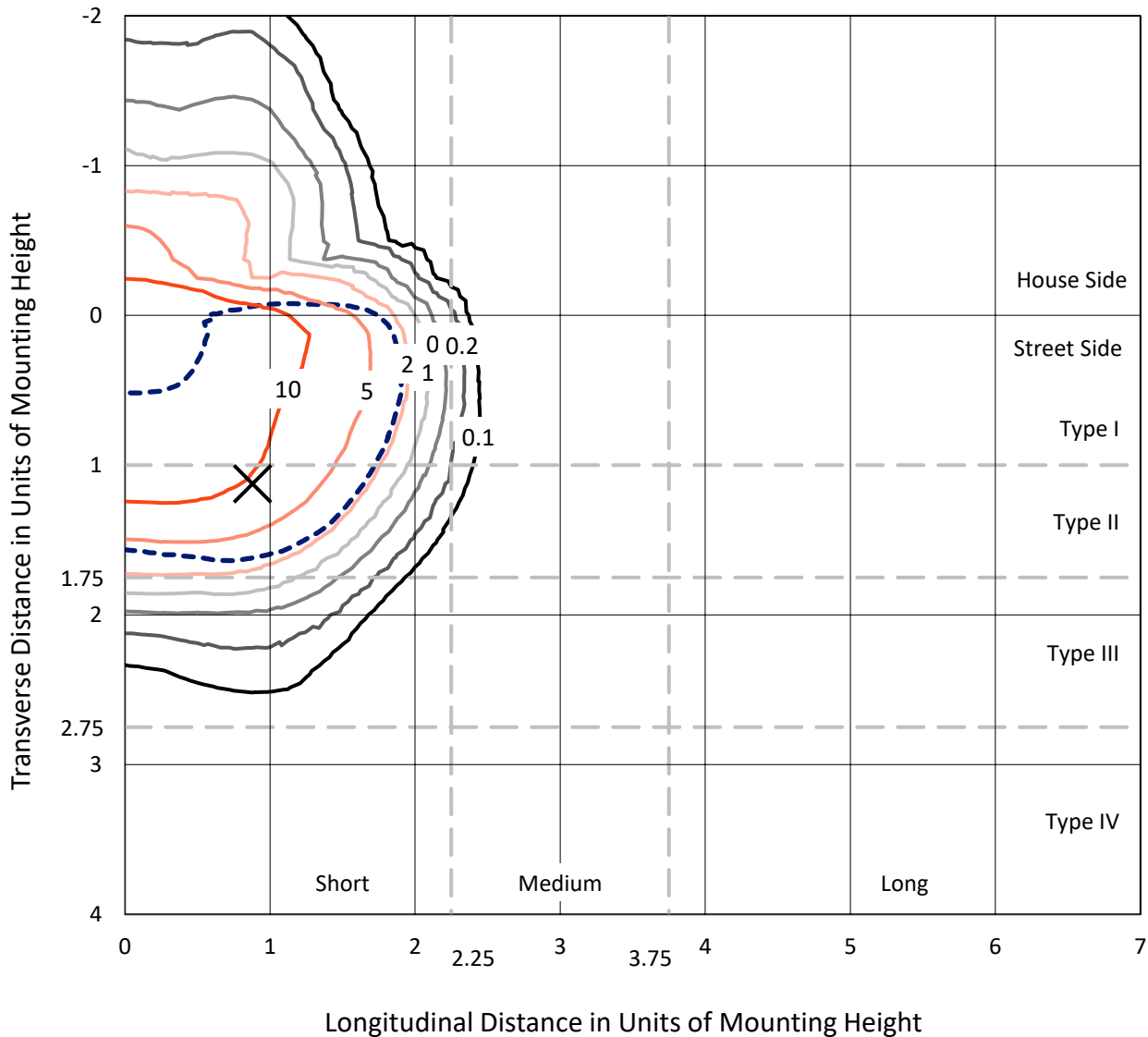
Lumens per Lamp: N/A  
Luminaire Lumens: 7323.1 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

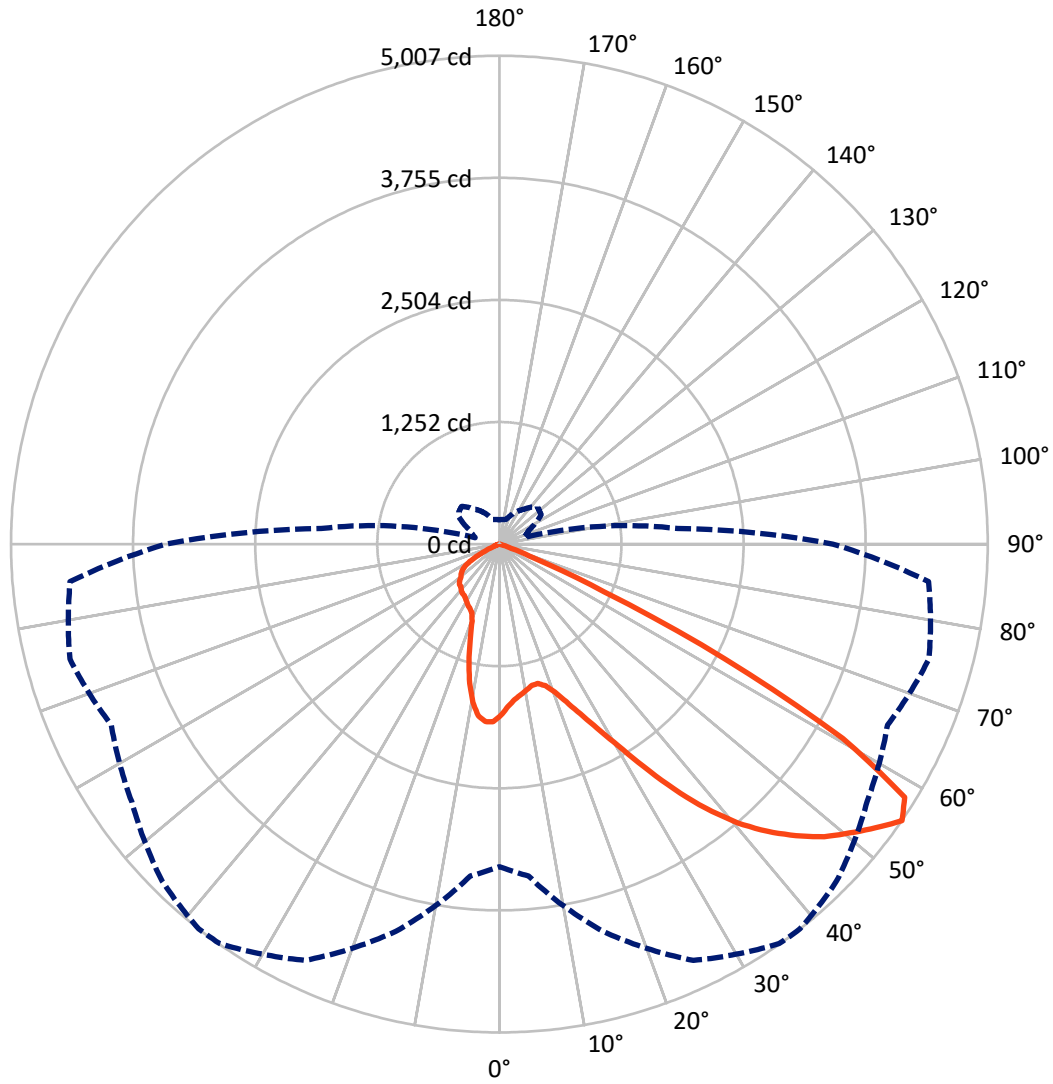
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1426.8	0.0	1426.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5896.3	0.0	5896.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7323.1	0.0	7323.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	2.2
10°-20°	437.1	6.0
20°-30°	750.2	10.2
30°-40°	1244.2	17.0
40°-50°	1829.0	25.0
50°-60°	2137.3	29.2
60°-70°	724.5	9.9
70°-80°	37.0	0.5
80°-90°	1.5	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°	7323.1	100.0
0°-180°	7323.1	100.0

**Coefficient of Utilization**



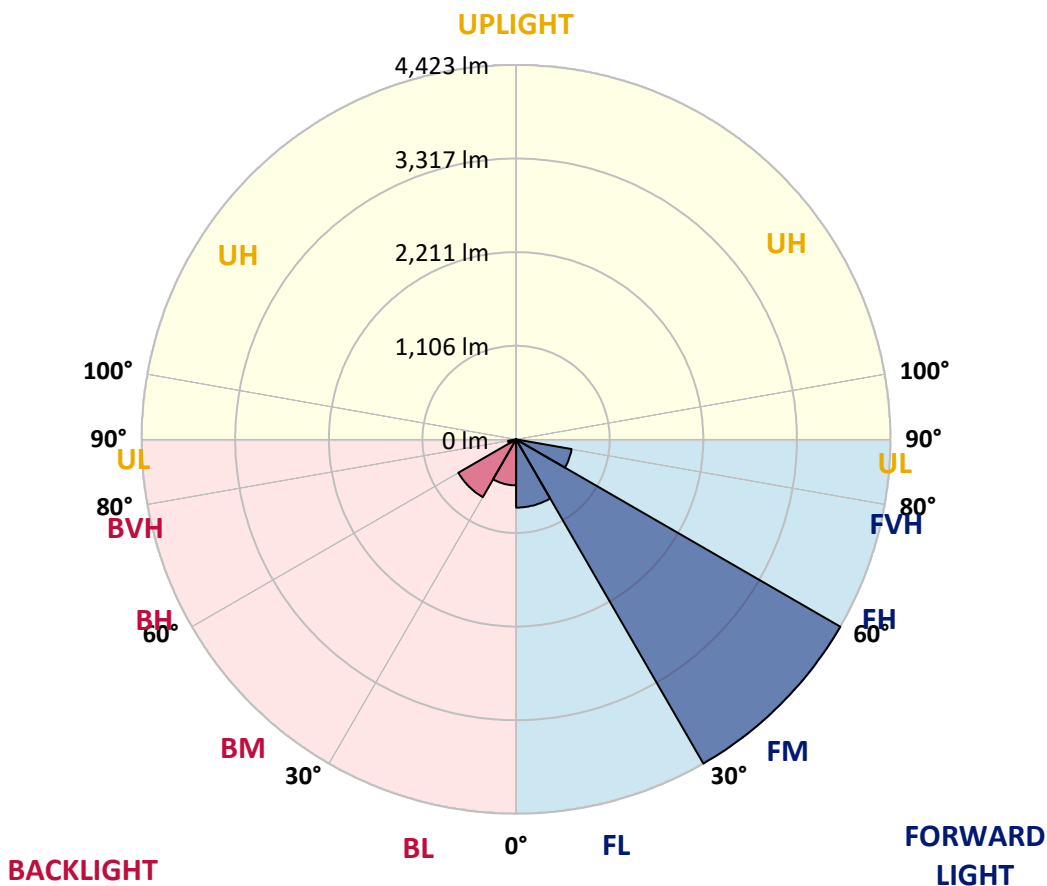
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.1	11.0			
FM (30°-60°)	4423.0	60.4			
FH (60°-80°)	666.5	9.1			G1/1800
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	543.6	7.4	B2/1000		
BM (30°-60°)	787.5	10.8	B1/1000		
BH (60°-80°)	95.0	1.3	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1
2.5°	1635.6	1632.3	1638.9	1652.3	1664.9	1669.1	1681.6	1699.2	1710.1	1736.0	1757.0
5°	1561.9	1560.3	1567.0	1578.7	1595.4	1601.3	1620.5	1649.8	1679.1	1724.3	1768.7
7.5°	1495.0	1494.1	1504.2	1530.1	1554.4	1561.9	1585.4	1621.4	1660.7	1730.2	1795.5
10°	1407.1	1407.9	1427.2	1464.0	1508.4	1523.4	1561.1	1613.0	1664.1	1753.6	1844.0
12.5°	1378.6	1380.3	1390.3	1418.8	1467.4	1486.6	1539.3	1618.0	1683.3	1787.1	1906.8
15°	1448.1	1448.1	1439.7	1443.1	1464.8	1482.4	1537.7	1634.8	1716.0	1827.3	1968.7
17.5°	1582.9	1577.8	1556.9	1528.5	1520.9	1526.8	1571.1	1670.8	1762.0	1874.2	2039.1
20°	1765.3	1767.0	1726.0	1666.6	1618.9	1618.0	1644.8	1734.4	1828.1	1930.2	2115.2
22.5°	1986.3	1979.6	1925.2	1844.0	1761.2	1754.5	1765.3	1831.5	1923.5	2019.0	2209.0
25°	2242.5	2239.1	2162.1	2053.3	1943.6	1927.7	1927.7	1993.0	2060.0	2145.4	2321.1
27.5°	2510.3	2510.3	2435.8	2310.3	2164.6	2136.2	2132.0	2209.0	2253.3	2270.1	2415.7
30°	2785.7	2782.4	2708.7	2579.8	2424.1	2394.8	2383.1	2440.0	2471.8	2421.6	2533.8
32.5°	3065.3	3071.1	2996.6	2876.9	2738.0	2718.7	2682.8	2682.8	2708.7	2638.4	2719.6
35°	3365.8	3364.1	3305.5	3224.3	3105.5	3083.7	3024.3	2931.4	2970.7	2939.7	2976.6
37.5°	3631.1	3643.7	3615.2	3555.0	3458.7	3436.9	3339.0	3170.8	3200.9	3249.4	3282.1
40°	3900.7	3910.7	3939.2	3919.9	3798.5	3758.4	3584.3	3308.0	3341.5	3508.1	3601.8
42.5°	4165.2	4170.2	4228.0	4259.8	4097.4	4027.1	3770.1	3391.7	3426.9	3710.7	3874.7
45°	4333.4	4344.3	4439.7	4536.8	4361.0	4264.8	3931.6	3498.9	3513.9	3851.3	4076.4
47.5°	4326.7	4351.8	4531.0	4707.6	4587.9	4484.1	4125.8	3670.5	3645.4	3983.5	4209.5
50°	4192.0	4222.1	4479.1	4759.5	4751.1	4654.8	4341.8	3919.1	3840.4	4100.7	4226.3
52.5°	3912.4	3999.4	4387.8	4766.2	4882.5	4834.0	4608.8	4253.9	4104.1	4269.0	4253.1
55°	3308.0	3415.2	4110.8	4709.3	5001.4	5007.2	4889.2	4602.9	4390.3	4558.6	4418.0
57.5°	2511.2	2596.5	3164.1	4192.0	4804.7	4900.9	4998.0	4787.1	4567.0	4756.1	4456.5
60°	1513.4	1612.2	1981.3	3076.2	3880.6	4044.6	4425.5	4384.5	4119.1	4200.3	3654.6
62.5°	613.6	665.5	914.9	1695.0	2442.5	2595.7	2960.7	3022.6	2957.3	2874.4	2216.5
65°	224.3	245.3	366.6	700.6	1123.3	1179.4	1371.9	1481.6	1572.0	1338.4	824.5
67.5°	139.0	152.3	238.6	359.9	408.5	380.0	386.7	461.2	440.3	272.0	147.3
70°	103.0	113.8	186.7	249.4	164.9	127.2	86.2	92.1	82.9	72.8	72.0
72.5°	71.1	81.2	139.8	147.3	63.6	45.2	31.8	44.4	50.2	49.4	51.1
75°	46.9	54.4	87.9	57.8	15.9	12.6	10.9	23.4	30.1	30.1	31.0
77.5°	27.6	31.8	31.0	11.7	3.3	3.3	2.5	4.2	6.7	7.5	9.2
80°	3.3	2.5	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5
82.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
85°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	2.5	2.5
87.5°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	2.5	2.5
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°	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1	1756.1
2.5°	1772.9	1767.0	1791.3	1808.9	1823.1	1829.8	1820.6	1819.8	1819.8	1801.3	1796.3
5°	1793.8	1796.3	1830.6	1845.7	1848.2	1839.8	1818.9	1804.7	1796.3	1777.1	1766.2
7.5°	1834.0	1842.4	1875.0	1872.5	1849.9	1811.4	1756.1	1713.4	1685.8	1655.7	1637.3
10°	1891.7	1907.6	1927.7	1892.6	1820.6	1722.7	1608.8	1527.6	1479.1	1444.8	1423.8
12.5°	1962.1	1978.0	1971.3	1888.4	1738.6	1563.6	1417.1	1299.9	1243.9	1212.9	1191.1
15°	2033.2	2043.2	1999.7	1838.2	1593.7	1358.5	1195.3	1079.0	1010.3	985.2	966.8
17.5°	2106.0	2103.5	2004.7	1739.4	1400.4	1127.5	966.8	887.3	868.0	863.8	862.2
20°	2182.2	2159.6	1984.7	1597.9	1167.7	899.0	807.8	812.8	847.9	864.7	868.0
22.5°	2269.2	2212.3	1934.4	1406.2	930.0	749.2	758.4	807.8	855.5	878.1	881.4
25°	2362.2	2260.9	1850.7	1160.2	733.3	688.9	743.3	800.2	851.3	878.9	882.3
27.5°	2423.3	2272.6	1713.4	912.4	629.5	665.5	723.2	777.6	830.4	860.5	864.7
30°	2489.4	2267.6	1526.8	703.1	594.3	645.4	695.6	745.0	793.5	827.0	830.4
32.5°	2586.5	2264.2	1299.1	570.9	580.1	629.5	666.3	707.3	740.8	760.0	757.5
35°	2713.7	2260.0	1033.8	514.8	571.7	616.9	646.2	665.5	628.6	616.9	619.4
37.5°	2876.9	2270.1	810.3	491.3	569.2	613.6	638.7	583.4	526.5	504.7	501.4
40°	3057.8	2296.0	617.7	482.1	577.6	621.9	610.2	519.0	448.7	406.0	396.8
42.5°	3239.4	2324.5	488.8	478.8	591.8	645.4	563.3	472.1	366.6	342.4	339.0
45°	3374.2	2319.5	422.7	472.9	604.4	658.8	550.8	405.1	327.3	316.4	317.2
47.5°	3442.0	2264.2	386.7	459.5	609.4	645.4	519.8	377.5	300.5	312.2	322.3
50°	3406.0	2121.1	353.2	433.6	598.5	627.8	470.4	356.6	287.1	335.7	358.3
52.5°	3362.4	1945.3	316.4	393.4	572.5	603.5	451.2	350.7	278.7	323.9	340.7
55°	3420.2	1834.0	256.1	331.5	521.5	546.6	436.1	349.9	259.5	252.0	249.4
57.5°	3339.0	1612.2	183.3	238.6	400.1	432.8	425.2	344.0	230.2	229.4	232.7
60°	2580.6	983.5	125.6	151.5	245.3	276.2	385.9	329.0	198.4	182.5	183.3
62.5°	1466.5	418.5	86.2	93.7	125.6	149.0	294.6	298.8	183.3	174.1	183.3
65°	510.6	149.8	67.0	62.8	69.5	79.5	169.1	231.0	166.6	150.7	152.3
67.5°	105.5	74.5	59.4	51.9	51.9	51.9	86.2	144.0	137.3	119.7	121.4
70°	67.0	63.6	51.9	44.4	42.7	39.3	49.4	79.5	94.6	87.1	87.9
72.5°	49.4	48.5	41.0	36.0	31.8	28.5	31.0	39.3	48.5	50.2	51.1
75°	30.1	31.0	26.8	22.6	20.1	17.6	18.4	18.4	18.4	16.7	18.4
77.5°	9.2	10.0	8.4	6.7	5.9	5.9	5.9	5.0	4.2	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	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)