

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: P632945

Luminaire Tested: GWS-SA2D-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632945  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

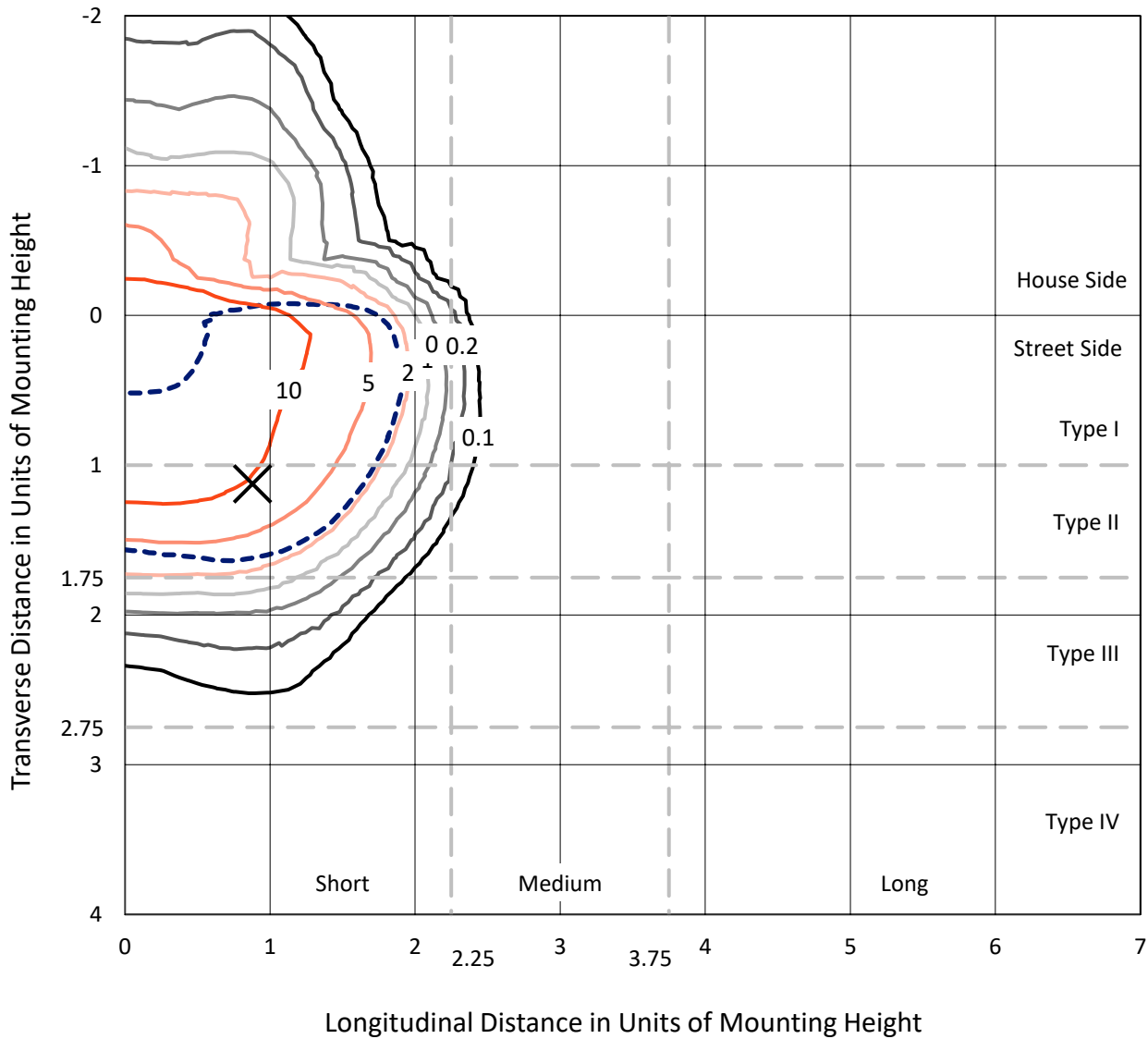
Lumens per Lamp: N/A  
Luminaire Lumens: 7388.3 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

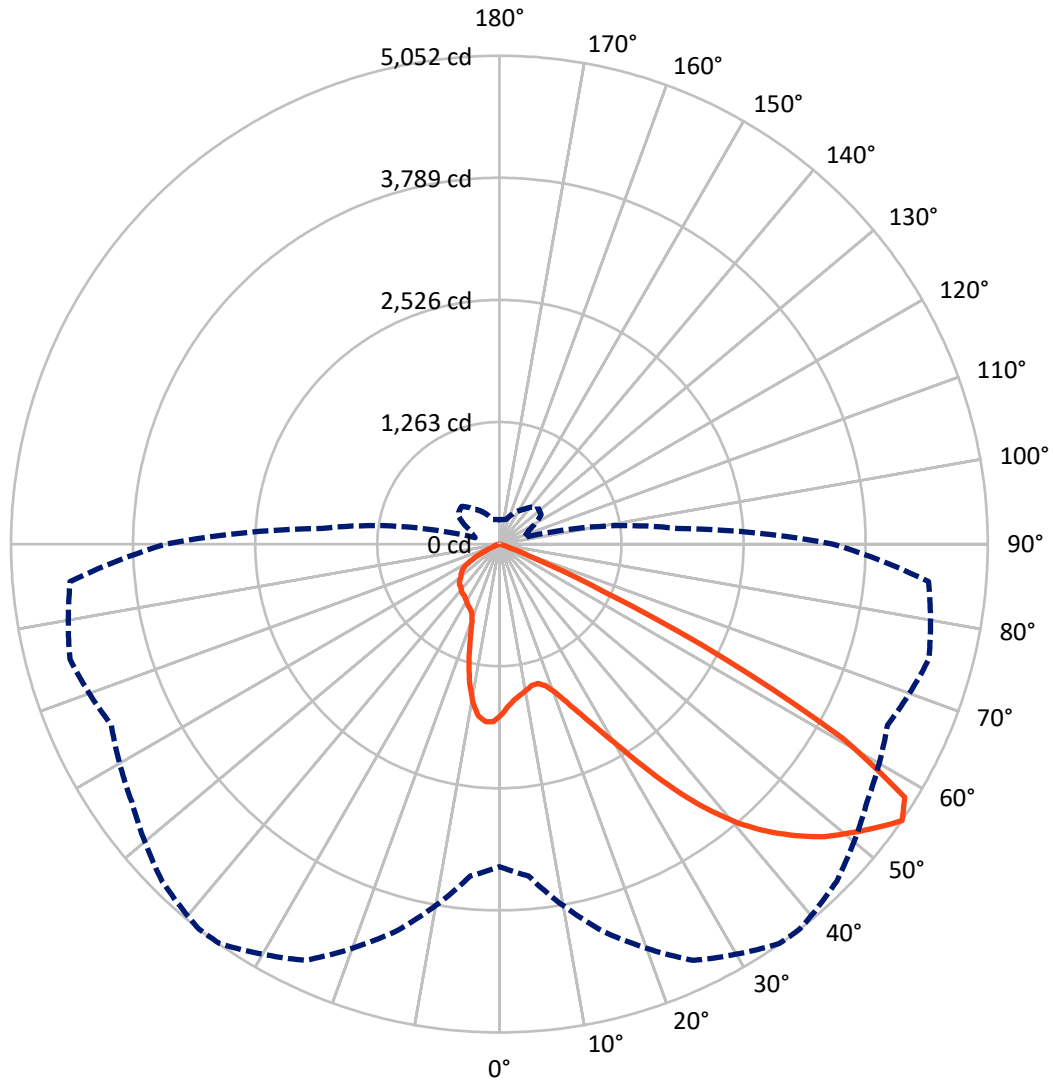
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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	1439.5	0.0	1439.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5948.8	0.0	5948.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7388.3	0.0	7388.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.8	2.2
10°-20°	441.0	6.0
20°-30°	756.8	10.2
30°-40°	1255.3	17.0
40°-50°	1845.3	25.0
50°-60°	2156.3	29.2
60°-70°	730.9	9.9
70°-80°	37.4	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°	7388.3	100.0
0°-180°	7388.3	100.0

**Coefficient of Utilization**



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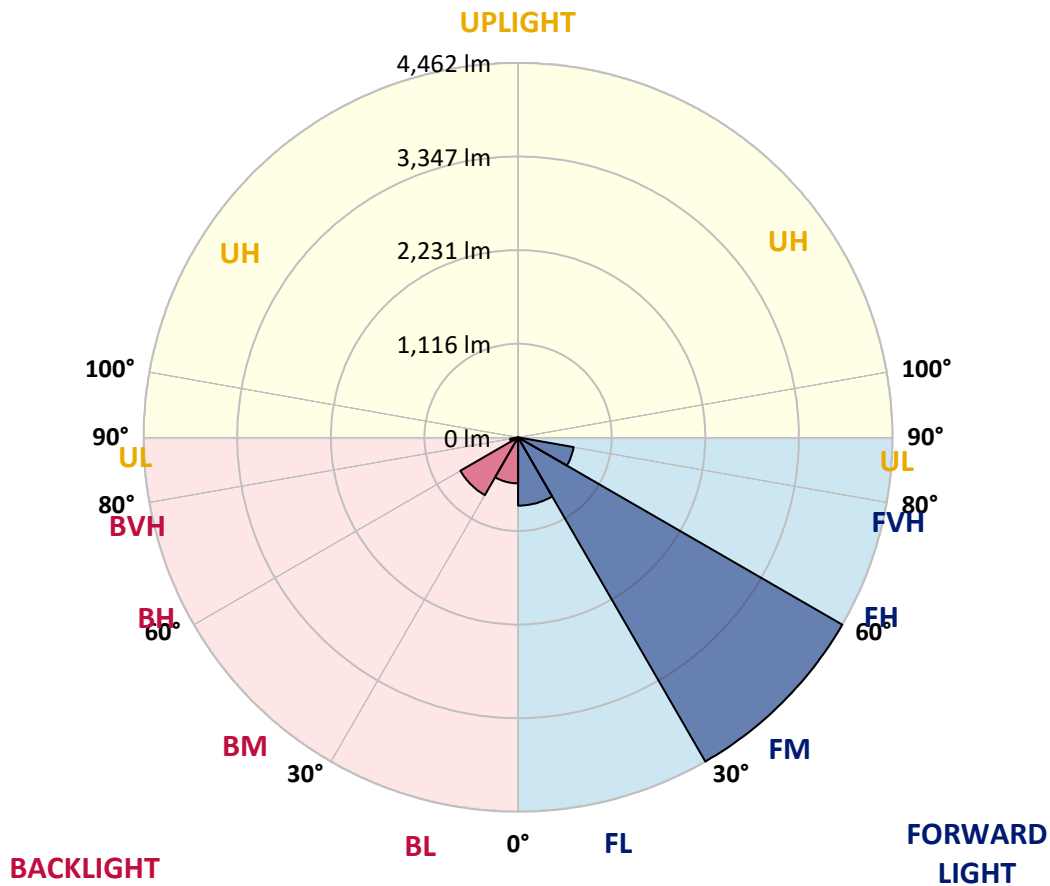
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.3	11.0			
FM (30°-60°)	4462.3	60.4			
FH (60°-80°)	672.4	9.1			G1/1800
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	548.4	7.4	B2/1000		
BM (30°-60°)	794.5	10.8	B1/1000		
BH (60°-80°)	95.8	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°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1650.2	1646.8	1653.5	1667.1	1679.7	1683.9	1696.6	1714.3	1725.3	1751.5	1772.6
5°	1575.8	1574.2	1580.9	1592.7	1609.6	1615.5	1635.0	1664.5	1694.1	1739.7	1784.4
7.5°	1508.3	1507.4	1517.6	1543.8	1568.2	1575.8	1599.5	1635.8	1675.5	1745.6	1811.5
10°	1419.6	1420.5	1439.9	1477.0	1521.8	1537.0	1575.0	1627.4	1678.9	1769.2	1860.4
12.5°	1390.9	1392.6	1402.7	1431.4	1480.4	1499.8	1553.0	1632.4	1698.3	1803.0	1923.8
15°	1461.0	1461.0	1452.5	1455.9	1477.9	1495.6	1551.4	1649.3	1731.2	1843.6	1986.3
17.5°	1597.0	1591.9	1570.8	1542.1	1534.5	1540.4	1585.1	1685.6	1777.7	1890.8	2057.2
20°	1781.1	1782.7	1741.4	1681.4	1633.3	1632.4	1659.5	1749.8	1844.4	1947.4	2134.1
22.5°	2004.0	1997.3	1942.4	1860.4	1776.8	1770.1	1781.1	1847.8	1940.7	2036.9	2228.6
25°	2262.4	2259.1	2181.4	2071.6	1960.9	1944.9	1944.9	2010.8	2078.3	2164.5	2341.8
27.5°	2532.7	2532.7	2457.5	2330.8	2183.9	2155.2	2151.0	2228.6	2273.4	2290.3	2437.2
30°	2810.5	2807.1	2732.8	2602.8	2445.7	2416.1	2404.3	2461.7	2493.8	2443.2	2556.3
32.5°	3092.6	3098.5	3023.3	2902.6	2762.4	2743.0	2706.6	2706.6	2732.8	2661.9	2743.8
35°	3395.8	3394.1	3334.9	3253.0	3133.1	3111.2	3051.2	2957.5	2997.1	2965.9	3003.1
37.5°	3663.5	3676.1	3647.4	3586.6	3489.5	3467.5	3368.7	3199.0	3229.4	3278.4	3311.3
40°	3935.4	3945.5	3974.2	3954.8	3832.4	3791.8	3616.2	3337.5	3371.3	3539.3	3633.9
42.5°	4202.3	4207.3	4265.6	4297.7	4133.9	4062.9	3803.6	3421.9	3457.4	3743.7	3909.2
45°	4372.0	4383.0	4479.3	4577.2	4399.9	4302.8	3966.6	3530.0	3545.2	3885.6	4112.7
47.5°	4365.2	4390.6	4571.3	4749.5	4628.7	4524.0	4162.6	3703.2	3677.8	4019.0	4247.0
50°	4229.3	4259.7	4518.9	4801.9	4793.4	4696.3	4380.4	3954.0	3874.6	4137.2	4263.9
52.5°	3947.2	4035.0	4426.9	4808.6	4926.0	4877.0	4649.8	4291.8	4140.6	4307.0	4290.9
55°	3337.5	3445.6	4147.4	4751.2	5045.9	5051.8	4932.8	4643.9	4429.4	4599.2	4457.3
57.5°	2533.5	2619.7	3192.2	4229.3	4847.5	4944.6	5042.5	4829.7	4607.6	4798.5	4496.1
60°	1526.9	1626.5	1998.9	3103.6	3915.1	4080.6	4464.9	4423.5	4155.8	4237.7	3687.1
62.5°	619.0	671.4	923.0	1710.1	2464.3	2618.8	2987.0	3049.5	2983.6	2900.0	2236.2
65°	226.3	247.4	369.9	706.9	1133.3	1189.9	1384.1	1494.8	1586.0	1350.4	831.8
67.5°	140.2	153.7	240.7	363.1	412.1	383.4	390.2	465.3	444.2	274.5	148.6
70°	103.9	114.9	188.3	251.7	166.4	128.4	87.0	92.9	83.6	73.5	72.6
72.5°	71.8	81.9	141.0	148.6	64.2	45.6	32.1	44.8	50.7	49.8	51.5
75°	47.3	54.9	88.7	58.3	16.0	12.7	11.0	23.6	30.4	30.4	31.2
77.5°	27.9	32.1	31.2	11.8	3.4	3.4	2.5	4.2	6.8	7.6	9.3
80°	3.4	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°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1788.7	1782.7	1807.2	1825.0	1839.3	1846.1	1836.8	1836.0	1836.0	1817.4	1812.3
5°	1809.8	1812.3	1846.9	1862.1	1864.7	1856.2	1835.1	1820.8	1812.3	1792.9	1781.9
7.5°	1850.3	1858.8	1891.7	1889.2	1866.4	1827.5	1771.8	1728.7	1700.8	1670.4	1651.9
10°	1908.6	1924.6	1944.9	1909.4	1836.8	1738.0	1623.1	1541.2	1492.2	1457.6	1436.5
12.5°	1979.5	1995.6	1988.8	1905.2	1754.0	1577.5	1429.7	1311.5	1254.9	1223.7	1201.7
15°	2051.3	2061.4	2017.5	1854.5	1607.9	1370.6	1206.0	1088.6	1019.3	994.0	975.4
17.5°	2124.8	2122.2	2022.6	1754.9	1412.9	1137.5	975.4	895.2	875.8	871.5	869.8
20°	2201.6	2178.8	2002.3	1612.2	1178.1	907.0	814.9	820.0	855.5	872.4	875.8
22.5°	2289.5	2232.0	1951.7	1418.8	938.2	755.8	765.1	814.9	863.1	885.9	889.3
25°	2383.2	2281.0	1867.2	1170.5	739.8	695.0	749.9	807.3	858.9	886.7	890.1
27.5°	2444.8	2292.8	1728.7	920.5	635.1	671.4	729.7	784.5	837.7	868.2	872.4
30°	2511.6	2287.8	1540.4	709.4	599.6	651.1	701.8	751.6	800.6	834.4	837.7
32.5°	2609.5	2284.4	1310.7	576.0	585.2	635.1	672.2	713.6	747.4	766.8	764.3
35°	2737.9	2280.2	1043.0	519.4	576.8	622.4	652.0	671.4	634.2	622.4	624.9
37.5°	2902.6	2290.3	817.5	495.7	574.3	619.0	644.4	588.6	531.2	509.2	505.9
40°	3085.0	2316.5	623.2	486.4	582.7	627.5	615.6	523.6	452.7	409.6	400.3
42.5°	3268.2	2345.2	493.2	483.1	597.1	651.1	568.4	476.3	369.9	345.4	342.0
45°	3404.2	2340.1	426.5	477.1	609.7	664.6	555.7	408.7	330.2	319.2	320.1
47.5°	3472.6	2284.4	390.2	463.6	614.8	651.1	524.4	380.9	303.2	315.0	325.1
50°	3436.3	2140.0	356.4	437.5	603.8	633.4	474.6	359.8	289.7	338.6	361.4
52.5°	3392.4	1962.6	319.2	396.9	577.6	608.9	455.2	353.8	281.2	326.8	343.7
55°	3450.6	1850.3	258.4	334.4	526.1	551.5	440.0	353.0	261.8	254.2	251.7
57.5°	3368.7	1626.5	184.9	240.7	403.7	436.6	429.0	347.1	232.2	231.4	234.8
60°	2603.6	992.3	126.7	152.9	247.4	278.7	389.3	331.9	200.1	184.1	184.9
62.5°	1479.6	422.3	87.0	94.6	126.7	150.3	297.3	301.5	184.9	175.7	184.9
65°	515.1	151.2	67.6	63.3	70.1	80.2	170.6	233.1	168.1	152.0	153.7
67.5°	106.4	75.2	60.0	52.4	52.4	52.4	87.0	145.3	138.5	120.8	122.5
70°	67.6	64.2	52.4	44.8	43.1	39.7	49.8	80.2	95.4	87.8	88.7
72.5°	49.8	49.0	41.4	36.3	32.1	28.7	31.2	39.7	49.0	50.7	51.5
75°	30.4	31.2	27.0	22.8	20.3	17.7	18.6	18.6	18.6	16.9	18.6
77.5°	9.3	10.1	8.4	6.8	5.9	5.9	5.9	5.1	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)