

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: P636706

Luminaire Tested: GWS-SA4B-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

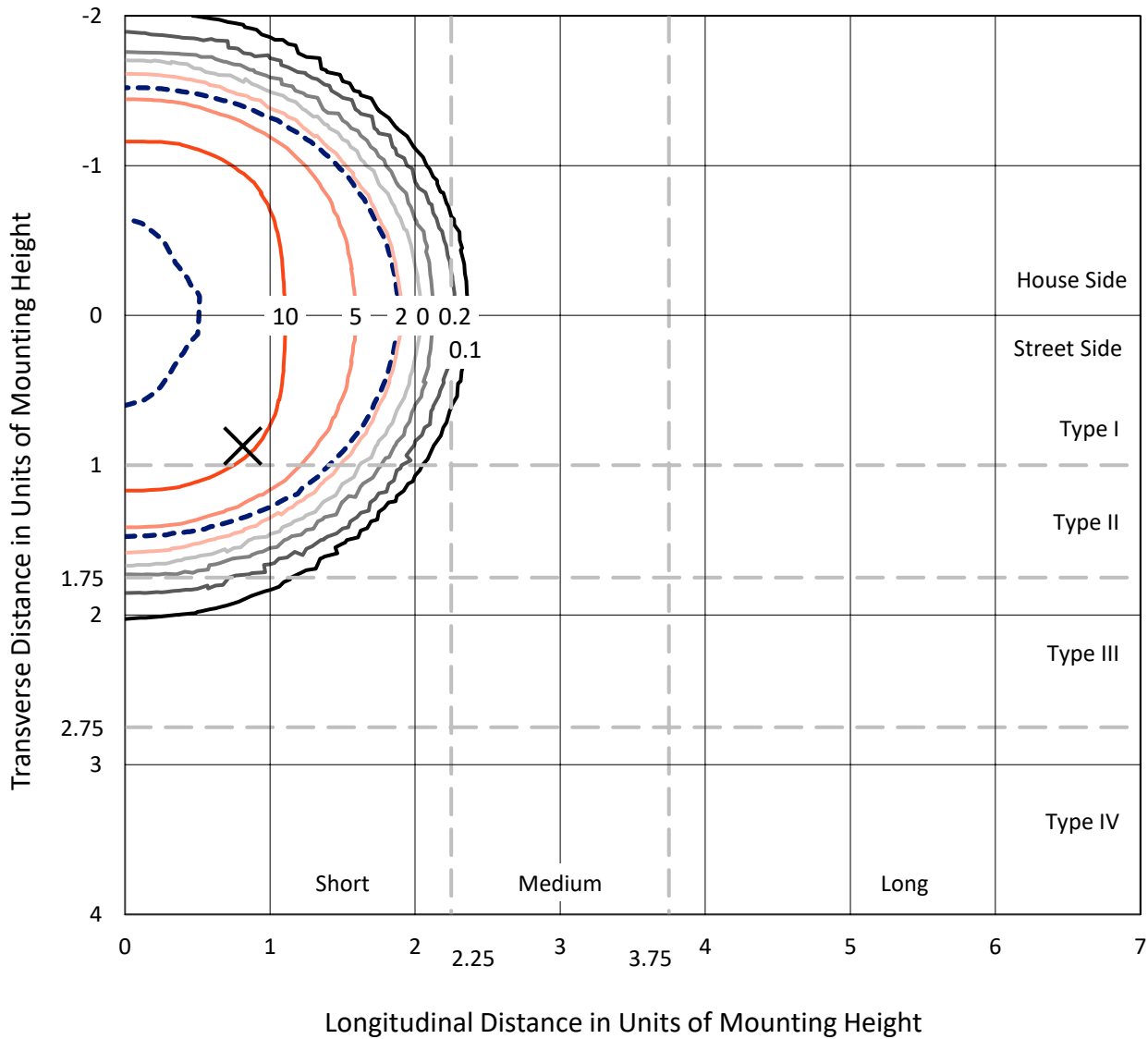
Lumens per Lamp: N/A  
Luminaire Lumens: 9252.6 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

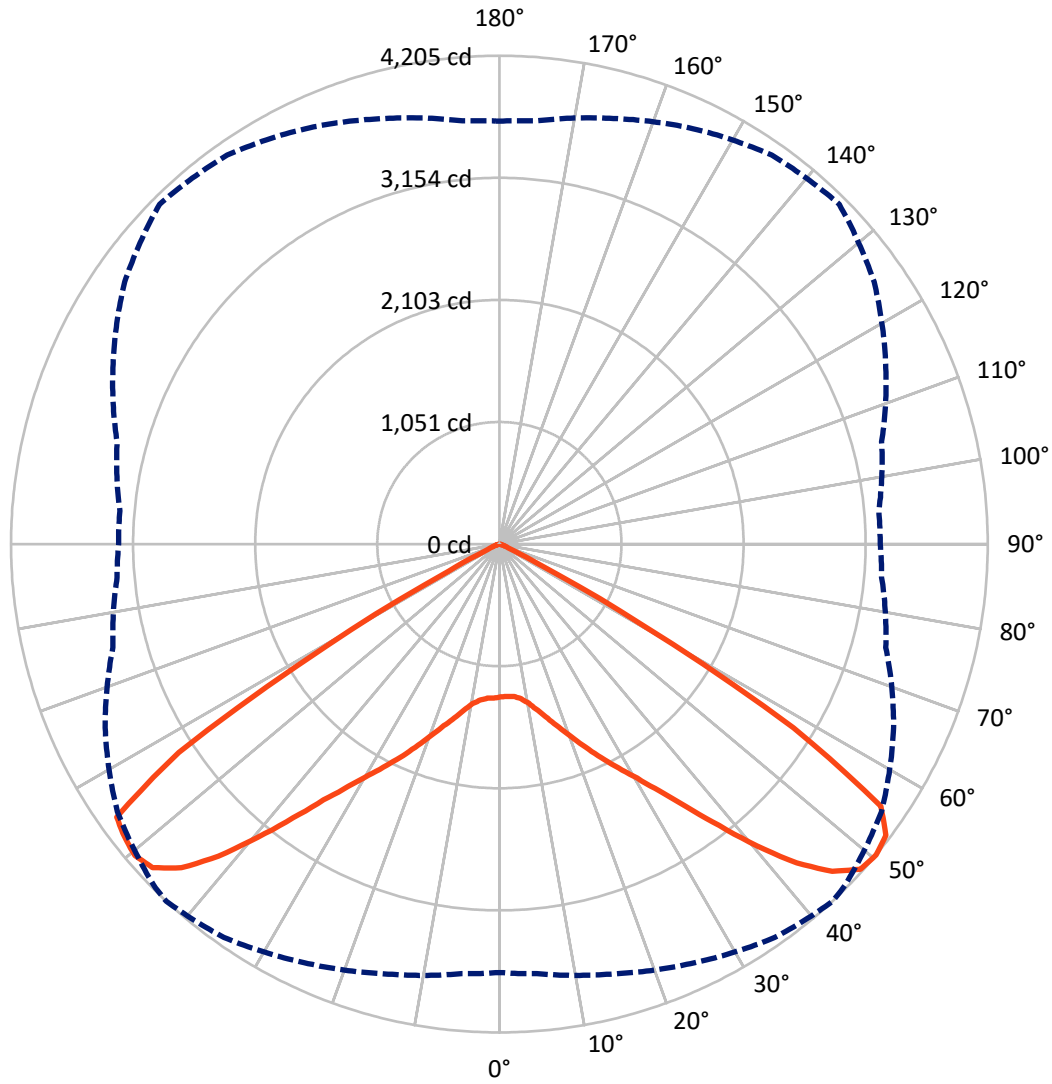
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4626.2	0.0	4626.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4626.4	0.0	4626.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9252.6	0.0	9252.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	1.4
10°-20°	446.0	4.8
20°-30°	902.3	9.8
30°-40°	1674.1	18.1
40°-50°	2778.9	30.0
50°-60°	2836.0	30.7
60°-70°	465.1	5.0
70°-80°	20.4	0.2
80°-90°	0.3	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°	9252.6	100.0
0°-180°	9252.6	100.0

**Coefficient of Utilization**



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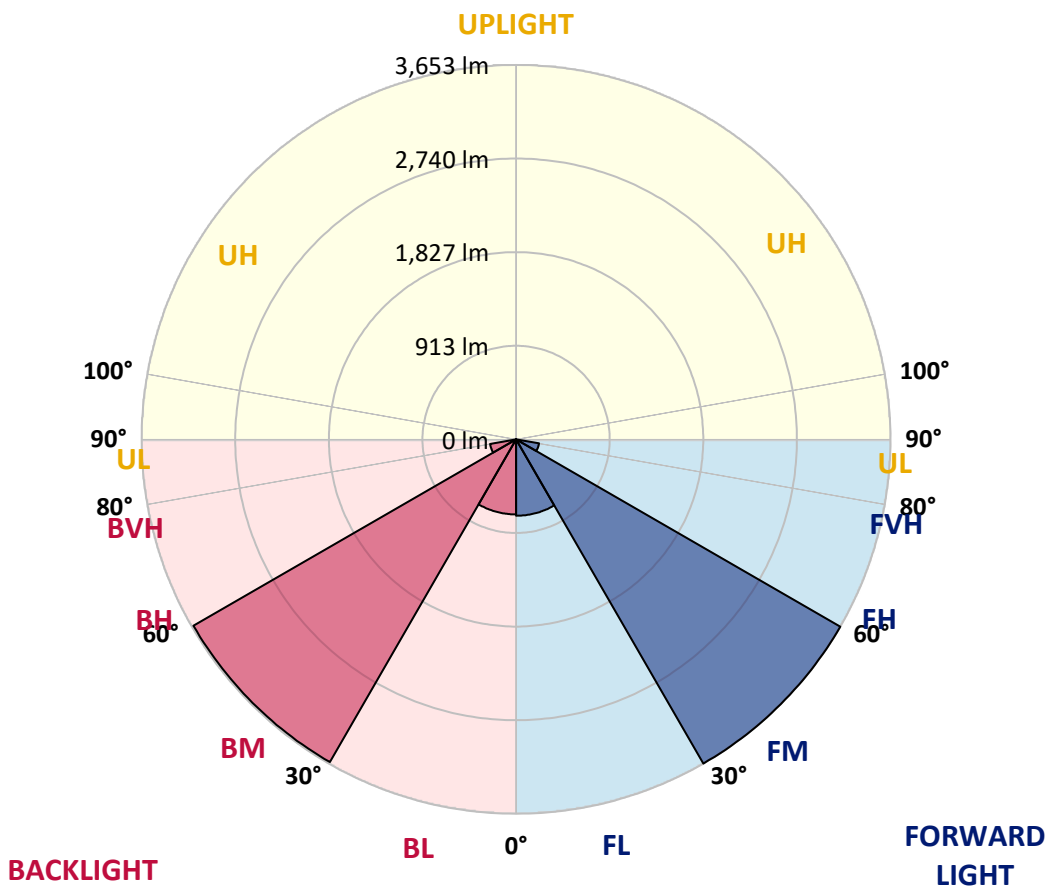
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.4	8.1			
FM (30°-60°)	3653.4	39.5			
FH (60°-80°)	227.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	732.5	7.9	B2/1000		
BM (30°-60°)	3635.6	39.3	B3/5000		
BH (60°-80°)	257.9	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1291.5	1294.5	1298.6	1302.7	1307.8	1313.0	1316.0	1325.2	1323.2	1331.4	1331.4
5°	1277.1	1280.2	1285.3	1294.5	1305.8	1317.1	1325.2	1343.7	1353.9	1370.3	1376.4
7.5°	1284.3	1288.4	1294.5	1308.9	1326.3	1343.7	1352.9	1382.6	1403.0	1433.7	1451.1
10°	1307.8	1311.9	1322.2	1346.7	1369.3	1393.8	1405.1	1442.9	1475.7	1517.6	1542.2
12.5°	1334.5	1339.6	1360.0	1396.9	1435.8	1468.5	1483.9	1525.8	1559.6	1606.7	1645.6
15°	1362.1	1370.3	1402.0	1456.2	1511.5	1555.5	1571.9	1616.9	1650.7	1700.8	1744.8
17.5°	1426.6	1435.8	1471.6	1529.9	1605.6	1656.8	1671.1	1718.2	1743.8	1777.6	1823.6
20°	1507.4	1524.8	1568.8	1639.4	1722.3	1771.4	1781.7	1827.7	1825.7	1840.0	1879.9
22.5°	1607.7	1620.0	1668.1	1752.0	1845.1	1899.3	1922.9	1942.3	1916.7	1904.5	1930.0
25°	1712.1	1726.4	1778.6	1870.7	1975.1	2037.5	2056.9	2072.3	2031.4	1985.3	1988.4
27.5°	1847.2	1857.4	1908.6	2006.8	2111.2	2181.8	2199.2	2225.8	2171.6	2097.9	2077.4
30°	2007.8	2018.1	2072.3	2175.7	2279.0	2339.4	2366.0	2398.7	2339.4	2247.3	2223.8
32.5°	2196.1	2206.4	2275.9	2382.4	2467.3	2532.8	2558.4	2593.2	2546.1	2442.8	2416.1
35°	2421.3	2427.4	2509.3	2624.9	2715.0	2778.4	2795.8	2836.7	2784.6	2681.2	2666.9
37.5°	2682.2	2689.4	2778.4	2912.5	3004.6	3075.2	3102.8	3114.1	3050.6	2935.0	2923.7
40°	2968.8	2992.3	3079.3	3223.6	3326.9	3416.0	3440.5	3402.7	3313.6	3156.0	3135.6
42.5°	3267.6	3288.0	3385.3	3541.8	3661.6	3752.6	3753.7	3671.8	3520.3	3302.4	3271.7
45°	3516.3	3524.4	3650.3	3807.9	3955.3	4019.7	4025.9	3877.5	3649.3	3387.3	3321.8
47.5°	3687.2	3700.5	3810.0	3961.4	4124.1	4182.5	4170.2	3984.9	3710.7	3442.6	3334.1
50°	3689.2	3711.7	3830.4	3976.8	4134.4	4205.0	4187.6	4015.6	3745.5	3444.6	3304.4
52.5°	3362.7	3399.6	3593.0	3804.8	4046.4	4167.1	4171.2	4055.6	3732.2	3411.9	3277.8
55°	2536.9	2576.8	2820.4	3181.6	3648.3	3984.9	4043.3	4008.5	3716.8	3426.2	3324.9
57.5°	1342.6	1311.9	1447.0	1805.2	2391.6	2987.2	3158.1	3436.4	3545.9	3443.6	3411.9
60°	292.7	312.1	415.5	559.8	933.3	1405.1	1571.9	2048.8	2615.7	2867.4	3049.6
62.5°	125.9	123.8	128.9	146.3	213.9	356.1	434.9	710.2	1120.6	1539.1	1822.6
65°	103.4	104.4	108.5	108.5	101.3	102.3	107.5	162.7	262.0	367.4	493.3
67.5°	77.8	78.8	86.0	88.0	82.9	73.7	72.7	61.4	64.5	80.8	83.9
70°	49.1	49.1	53.2	55.3	55.3	51.2	50.1	44.0	43.0	49.1	55.3
72.5°	26.6	26.6	28.7	29.7	28.7	27.6	27.6	26.6	25.6	29.7	37.9
75°	11.3	11.3	12.3	12.3	11.3	11.3	11.3	11.3	11.3	13.3	20.5
77.5°	2.0	3.1	4.1	3.1	2.0	2.0	2.0	3.1	3.1	4.1	6.1
80°	1.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1338.5	1327.3	1331.4	1333.4	1330.4	1328.3	1317.1	1314.0	1308.9	1300.7	1298.6
5°	1383.6	1374.4	1373.3	1367.2	1352.9	1335.5	1314.0	1304.8	1294.5	1284.3	1282.3
7.5°	1459.3	1448.0	1440.9	1420.4	1387.7	1360.0	1324.2	1304.8	1291.5	1278.2	1275.1
10°	1556.5	1543.2	1522.8	1484.9	1440.9	1401.0	1359.0	1333.4	1313.0	1294.5	1293.5
12.5°	1659.9	1645.6	1608.7	1560.6	1507.4	1470.6	1417.3	1381.5	1350.8	1323.2	1320.1
15°	1768.4	1751.0	1700.8	1643.5	1594.4	1556.5	1498.2	1440.9	1393.8	1353.9	1349.8
17.5°	1851.3	1829.8	1770.4	1727.4	1687.5	1648.6	1583.1	1507.4	1445.0	1396.9	1385.6
20°	1903.4	1883.0	1826.7	1803.2	1784.7	1757.1	1679.3	1600.5	1530.9	1471.6	1461.4
22.5°	1953.6	1929.0	1879.9	1879.9	1894.2	1883.0	1799.1	1709.0	1627.1	1558.6	1543.2
25°	2009.9	1990.4	1955.6	1984.3	2020.1	2019.1	1933.1	1820.6	1726.4	1649.7	1634.3
27.5°	2091.7	2072.3	2060.0	2114.3	2159.3	2156.2	2062.1	1940.3	1841.0	1765.3	1751.0
30°	2236.0	2217.6	2204.3	2269.8	2327.1	2305.6	2202.3	2084.6	1984.3	1898.3	1888.1
32.5°	2428.4	2409.0	2391.6	2457.1	2508.2	2480.6	2382.4	2271.9	2156.2	2072.3	2051.8
35°	2681.2	2640.3	2622.9	2700.6	2722.1	2691.4	2597.3	2500.1	2377.3	2281.1	2267.8
37.5°	2942.1	2894.1	2881.8	2949.3	2984.1	2972.8	2862.3	2761.0	2628.0	2521.5	2506.2
40°	3165.2	3121.2	3099.7	3205.2	3283.9	3291.1	3191.8	3068.0	2911.4	2800.9	2773.3
42.5°	3296.2	3258.4	3253.2	3417.0	3545.9	3638.0	3519.3	3391.4	3226.6	3101.8	3079.3
45°	3325.9	3301.3	3344.3	3559.2	3759.8	3927.6	3826.3	3691.2	3513.2	3381.2	3359.7
47.5°	3322.8	3314.7	3391.4	3632.9	3886.7	4093.4	4043.3	3890.8	3718.9	3580.7	3560.3
50°	3278.8	3279.9	3407.8	3669.8	3937.9	4138.5	4088.3	3947.1	3793.6	3657.5	3641.1
52.5°	3261.4	3255.3	3377.1	3658.5	3990.1	4118.0	4005.4	3846.8	3675.9	3508.1	3483.5
55°	3322.8	3307.5	3381.2	3649.3	3996.2	4106.7	3810.0	3466.1	3116.1	2917.6	2901.2
57.5°	3414.9	3398.6	3433.4	3581.7	3675.9	3414.9	2804.0	2249.3	1889.1	1736.6	1670.1
60°	3049.6	3038.3	3011.7	2832.6	2429.4	1832.8	1248.5	796.2	572.1	462.6	462.6
62.5°	1892.2	1876.8	1732.5	1287.4	935.3	541.4	297.8	186.3	141.2	132.0	131.0
65°	531.1	528.1	437.0	309.1	196.5	121.8	107.5	109.5	107.5	104.4	103.4
67.5°	79.8	88.0	88.0	71.6	68.6	76.8	90.1	96.2	91.1	86.0	83.9
70°	51.2	55.3	53.2	46.1	49.1	57.3	64.5	65.5	62.4	57.3	56.3
72.5°	35.8	39.9	32.7	29.7	30.7	33.8	36.8	36.8	35.8	33.8	31.7
75°	21.5	21.5	15.4	14.3	14.3	15.4	15.4	17.4	17.4	16.4	15.4
77.5°	7.2	8.2	5.1	4.1	4.1	4.1	5.1	6.1	6.1	5.1	4.1
80°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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)