

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: P636871

Luminaire Tested: GWS-SA4B-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636871  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

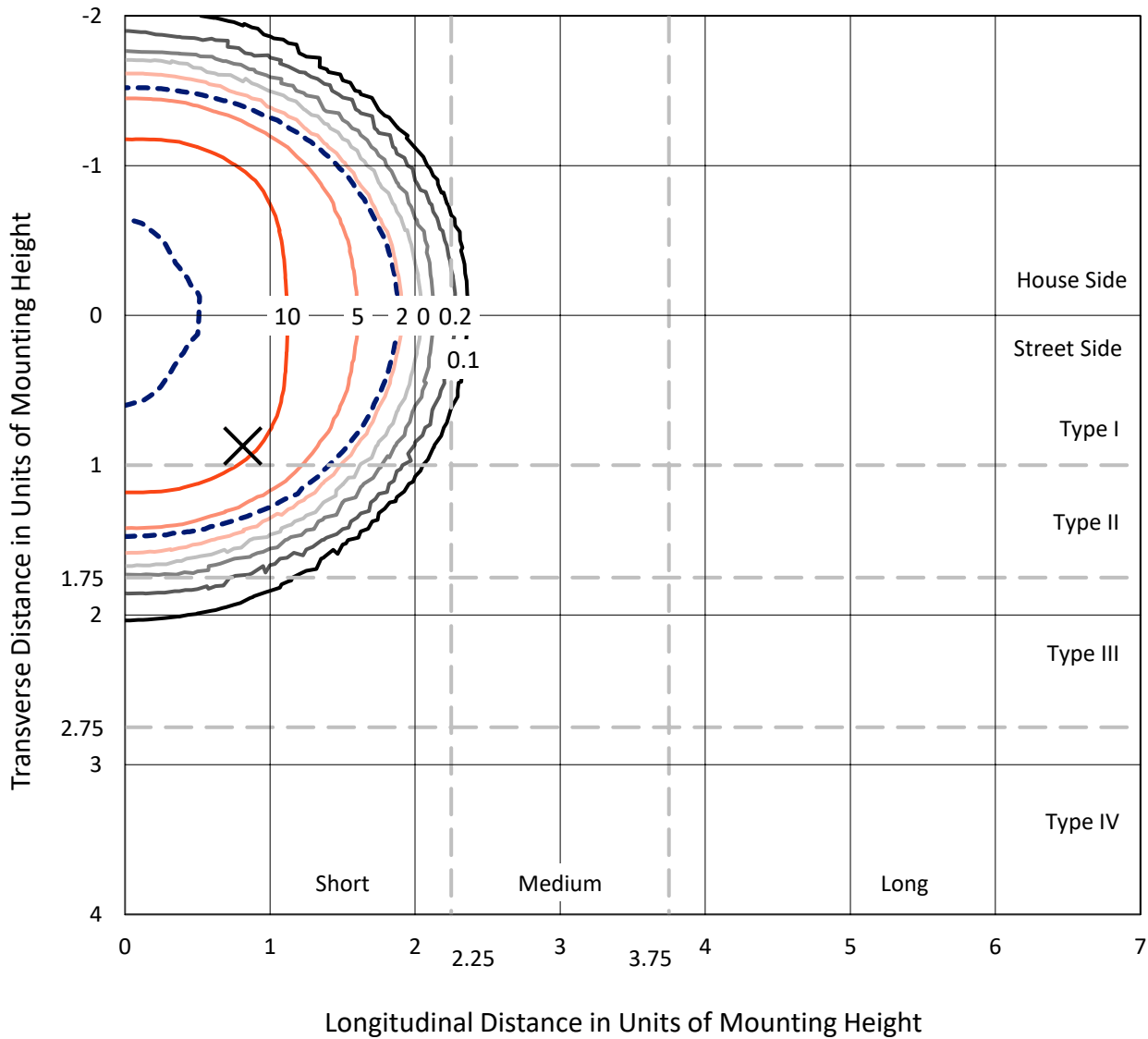
Lumens per Lamp: N/A  
Luminaire Lumens: 9464.6 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

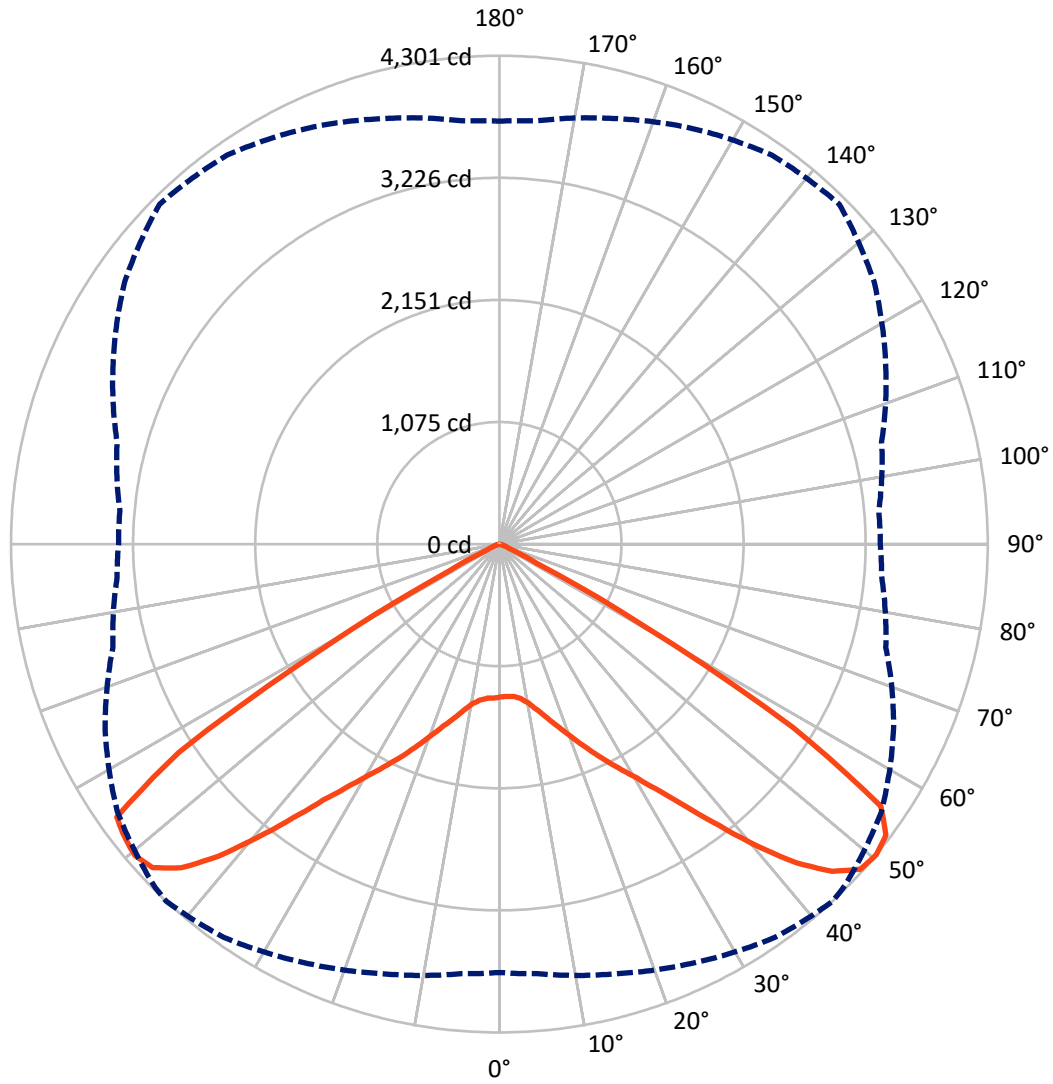
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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	4732.2	0.0	4732.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4732.4	0.0	4732.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9464.6	0.0	9464.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	1.4
10°-20°	456.2	4.8
20°-30°	923.0	9.8
30°-40°	1712.5	18.1
40°-50°	2842.6	30.0
50°-60°	2901.0	30.7
60°-70°	475.7	5.0
70°-80°	20.8	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°	9464.6	100.0
0°-180°	9464.6	100.0

**Coefficient of Utilization**



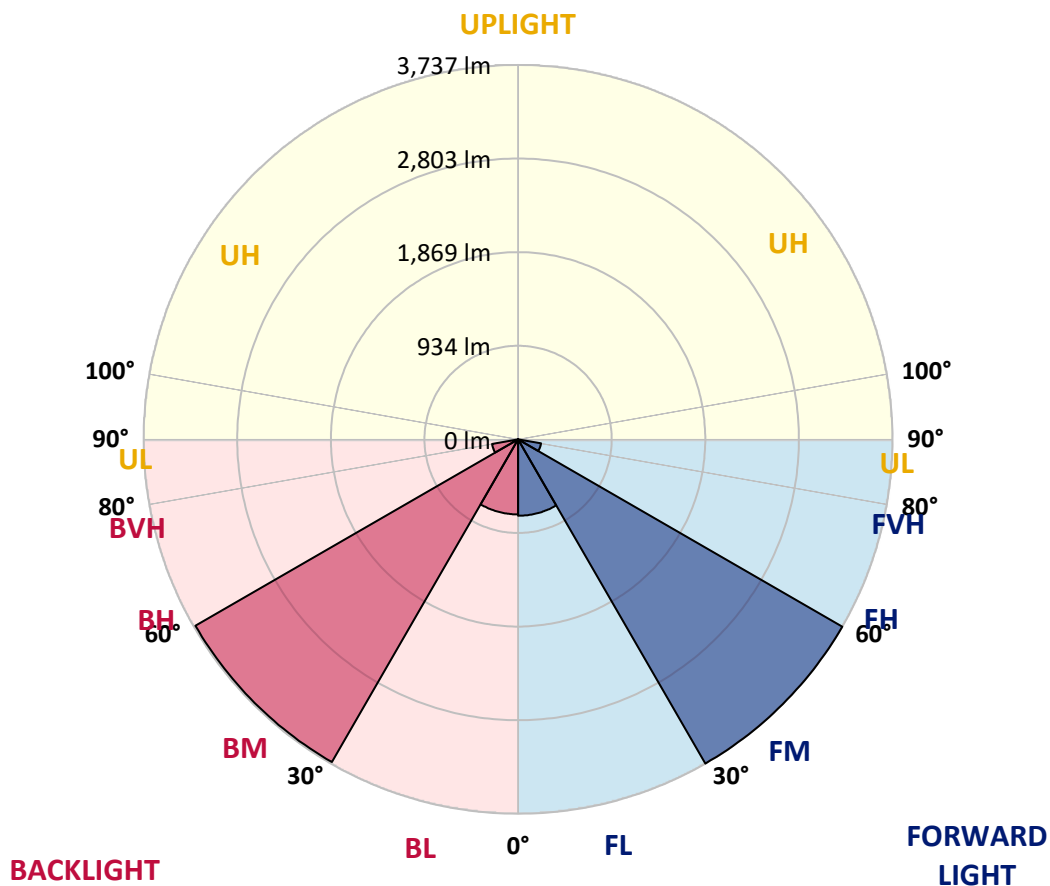
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.5	8.1			
FM (30°-60°)	3737.1	39.5			
FH (60°-80°)	232.7	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	749.3	7.9	B2/1000		
BM (30°-60°)	3718.9	39.3	B3/5000		
BH (60°-80°)	263.8	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°	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2
2.5°	1321.1	1324.2	1328.4	1332.6	1337.8	1343.0	1346.2	1355.6	1353.5	1361.9	1361.9
5°	1306.4	1309.6	1314.8	1324.2	1335.7	1347.2	1355.6	1374.5	1384.9	1401.7	1408.0
7.5°	1313.7	1317.9	1324.2	1338.9	1356.7	1374.5	1383.9	1414.2	1435.2	1466.6	1484.4
10°	1337.8	1342.0	1352.5	1377.6	1400.6	1425.7	1437.3	1476.0	1509.5	1552.4	1577.5
12.5°	1365.0	1370.3	1391.2	1428.9	1468.7	1502.2	1517.9	1560.8	1595.3	1643.5	1683.3
15°	1393.3	1401.7	1434.1	1489.6	1546.1	1591.1	1607.9	1653.9	1688.5	1739.8	1784.8
17.5°	1459.2	1468.7	1505.3	1565.0	1642.4	1694.8	1709.4	1757.6	1783.8	1818.3	1865.4
20°	1541.9	1559.7	1604.8	1677.0	1761.8	1812.0	1822.5	1869.6	1867.5	1882.2	1923.0
22.5°	1644.5	1657.1	1706.3	1792.1	1887.4	1942.9	1966.9	1986.8	1960.7	1948.1	1974.3
25°	1751.3	1766.0	1819.3	1913.6	2020.3	2084.2	2104.1	2119.8	2077.9	2030.8	2033.9
27.5°	1889.5	1899.9	1952.3	2052.8	2159.6	2231.8	2249.6	2276.8	2221.3	2145.9	2125.0
30°	2053.8	2064.3	2119.8	2225.5	2331.2	2393.0	2420.2	2453.7	2393.0	2298.8	2274.7
32.5°	2246.4	2256.9	2328.1	2437.0	2523.8	2590.8	2617.0	2652.6	2604.4	2498.7	2471.5
35°	2476.7	2483.0	2566.8	2685.1	2777.2	2842.1	2859.9	2901.7	2848.4	2742.6	2728.0
37.5°	2743.7	2751.0	2842.1	2979.2	3073.4	3145.6	3173.9	3185.4	3120.5	3002.2	2990.7
40°	3036.8	3060.9	3149.8	3297.4	3403.2	3494.2	3519.4	3480.6	3389.6	3228.3	3207.4
42.5°	3342.4	3363.4	3462.8	3623.0	3745.5	3838.6	3839.7	3755.9	3601.0	3378.0	3346.6
45°	3596.8	3605.2	3733.9	3895.2	4045.9	4111.8	4118.1	3966.3	3732.9	3464.9	3397.9
47.5°	3771.6	3785.2	3897.3	4052.2	4218.6	4278.3	4265.7	4076.3	3795.7	3521.4	3410.5
50°	3773.7	3796.8	3918.2	4067.9	4229.1	4301.3	4283.5	4107.7	3831.3	3523.5	3380.1
52.5°	3439.8	3477.5	3675.3	3892.0	4139.1	4262.6	4266.8	4148.5	3817.7	3490.0	3352.9
55°	2595.0	2635.9	2885.0	3254.5	3731.9	4076.3	4135.9	4100.3	3802.0	3504.7	3401.1
57.5°	1373.4	1342.0	1480.2	1846.6	2446.4	3055.6	3230.4	3515.2	3627.2	3522.5	3490.0
60°	299.4	319.3	425.0	572.6	954.7	1437.3	1607.9	2095.7	2675.6	2933.1	3119.5
62.5°	128.8	126.7	131.9	149.7	218.8	364.3	444.9	726.5	1146.3	1574.4	1864.4
65°	105.7	106.8	111.0	111.0	103.6	104.7	109.9	166.4	268.0	375.8	504.6
67.5°	79.6	80.6	87.9	90.0	84.8	75.4	74.3	62.8	65.9	82.7	85.8
70°	50.2	50.2	54.4	56.5	56.5	52.3	51.3	45.0	44.0	50.2	56.5
72.5°	27.2	27.2	29.3	30.4	29.3	28.3	28.3	27.2	26.2	30.4	38.7
75°	11.5	11.5	12.6	12.6	11.5	11.5	11.5	11.5	11.5	13.6	20.9
77.5°	2.1	3.1	4.2	3.1	2.1	2.1	2.1	3.1	3.1	4.2	6.3
80°	1.0	1.0	2.1	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°	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2	1346.2
2.5°	1369.2	1357.7	1361.9	1364.0	1360.8	1358.8	1347.2	1344.1	1338.9	1330.5	1328.4
5°	1415.3	1405.9	1404.8	1398.5	1383.9	1366.1	1344.1	1334.7	1324.2	1313.7	1311.6
7.5°	1492.7	1481.2	1473.9	1453.0	1419.5	1391.2	1354.6	1334.7	1321.1	1307.5	1304.3
10°	1592.2	1578.6	1557.6	1518.9	1473.9	1433.1	1390.2	1364.0	1343.0	1324.2	1323.2
12.5°	1697.9	1683.3	1645.6	1596.4	1541.9	1504.3	1449.8	1413.2	1381.8	1353.5	1350.4
15°	1808.9	1791.1	1739.8	1681.2	1630.9	1592.2	1532.5	1473.9	1425.7	1384.9	1380.7
17.5°	1893.7	1871.7	1811.0	1767.0	1726.2	1686.4	1619.4	1541.9	1478.1	1428.9	1417.4
20°	1947.1	1926.1	1868.5	1844.5	1825.6	1797.4	1717.8	1637.2	1566.0	1505.3	1494.8
22.5°	1998.3	1973.2	1923.0	1923.0	1937.6	1926.1	1840.3	1748.2	1664.4	1594.3	1578.6
25°	2055.9	2036.0	2000.4	2029.8	2066.4	2065.3	1977.4	1862.3	1766.0	1687.4	1671.7
27.5°	2139.7	2119.8	2107.2	2162.7	2208.8	2205.6	2109.3	1984.7	1883.2	1805.7	1791.1
30°	2287.3	2268.4	2254.8	2321.8	2380.4	2358.4	2252.7	2132.3	2029.8	1941.8	1931.4
32.5°	2484.1	2464.2	2446.4	2513.4	2565.7	2537.5	2437.0	2323.9	2205.6	2119.8	2098.8
35°	2742.6	2700.8	2683.0	2762.5	2784.5	2753.1	2656.8	2557.3	2431.7	2333.3	2319.7
37.5°	3009.6	2960.4	2947.8	3016.9	3052.5	3041.0	2927.9	2824.3	2688.2	2579.3	2563.6
40°	3237.8	3192.8	3170.8	3278.6	3359.2	3366.5	3265.0	3138.3	2978.2	2865.1	2836.8
42.5°	3371.8	3333.0	3327.8	3495.3	3627.2	3721.4	3600.0	3469.1	3300.6	3172.9	3149.8
45°	3402.1	3377.0	3421.0	3640.8	3846.0	4017.6	3914.0	3775.8	3593.7	3458.6	3436.7
47.5°	3399.0	3390.6	3469.1	3716.2	3975.8	4187.2	4135.9	3979.9	3804.1	3662.8	3641.8
50°	3354.0	3355.0	3485.9	3753.8	4028.1	4233.3	4182.0	4037.5	3880.5	3741.3	3724.5
52.5°	3336.2	3329.9	3454.5	3742.3	4081.5	4212.3	4097.2	3934.9	3760.1	3588.4	3563.3
55°	3399.0	3383.3	3458.6	3732.9	4087.8	4200.8	3897.3	3545.5	3187.5	2984.4	2967.7
57.5°	3493.2	3476.4	3512.0	3663.8	3760.1	3493.2	2868.2	2300.9	1932.4	1776.4	1708.4
60°	3119.5	3108.0	3080.7	2897.6	2485.1	1874.8	1277.1	814.4	585.2	473.2	473.2
62.5°	1935.5	1919.8	1772.2	1316.9	956.8	553.8	304.6	190.5	144.5	135.0	134.0
65°	543.3	540.2	447.0	316.1	201.0	124.6	109.9	112.0	109.9	106.8	105.7
67.5°	81.7	90.0	90.0	73.3	70.1	78.5	92.1	98.4	93.2	87.9	85.8
70°	52.3	56.5	54.4	47.1	50.2	58.6	65.9	67.0	63.9	58.6	57.6
72.5°	36.6	40.8	33.5	30.4	31.4	34.5	37.7	37.7	36.6	34.5	32.5
75°	22.0	22.0	15.7	14.7	14.7	15.7	15.7	17.8	17.8	16.7	15.7
77.5°	7.3	8.4	5.2	4.2	4.2	4.2	5.2	6.3	6.3	5.2	4.2
80°	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	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)