

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: P639016

Luminaire Tested: GWS-SA5B-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639016  
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-SA5B-722-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

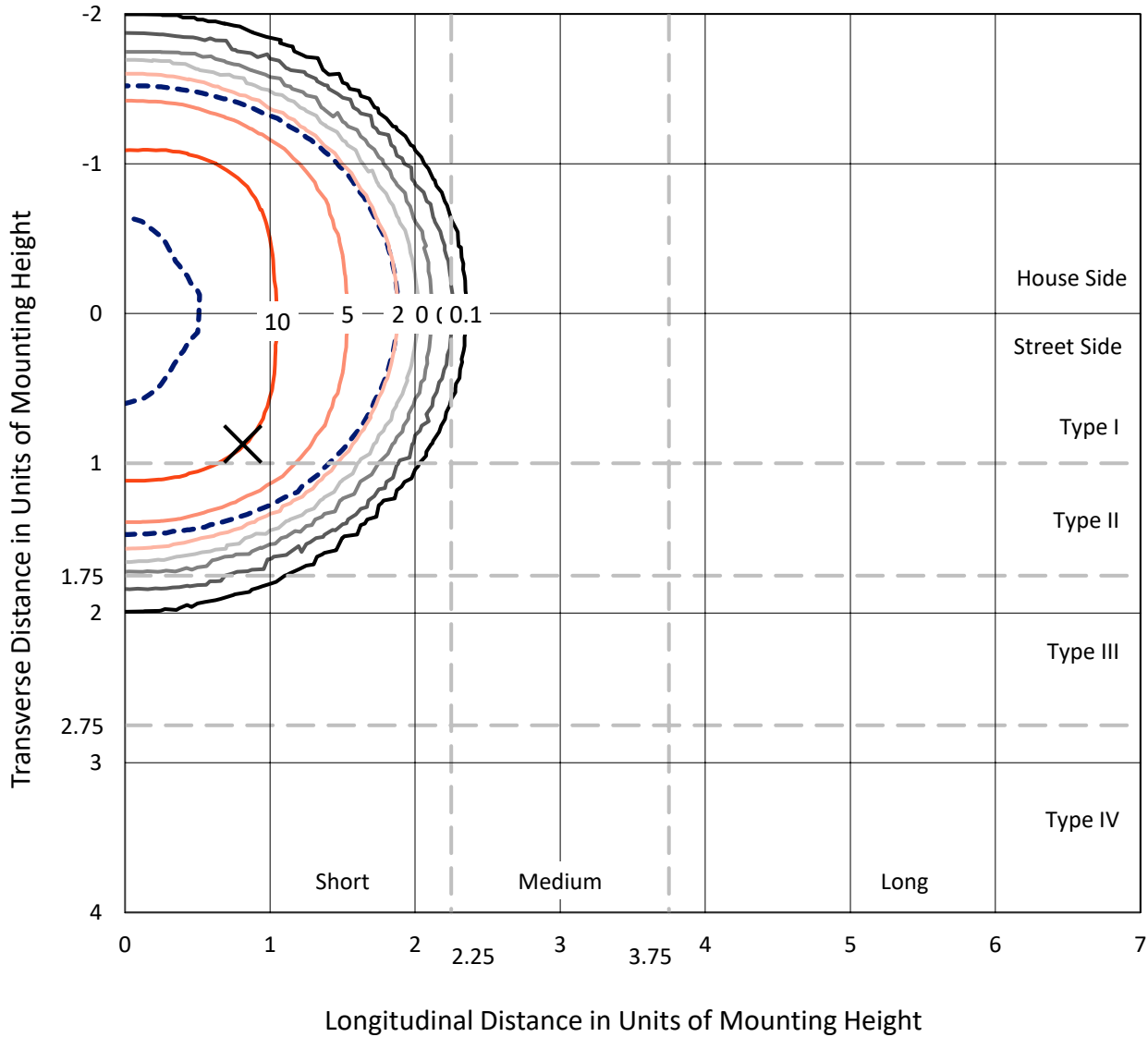
Lumens per Lamp: N/A  
Luminaire Lumens: 8476.7 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

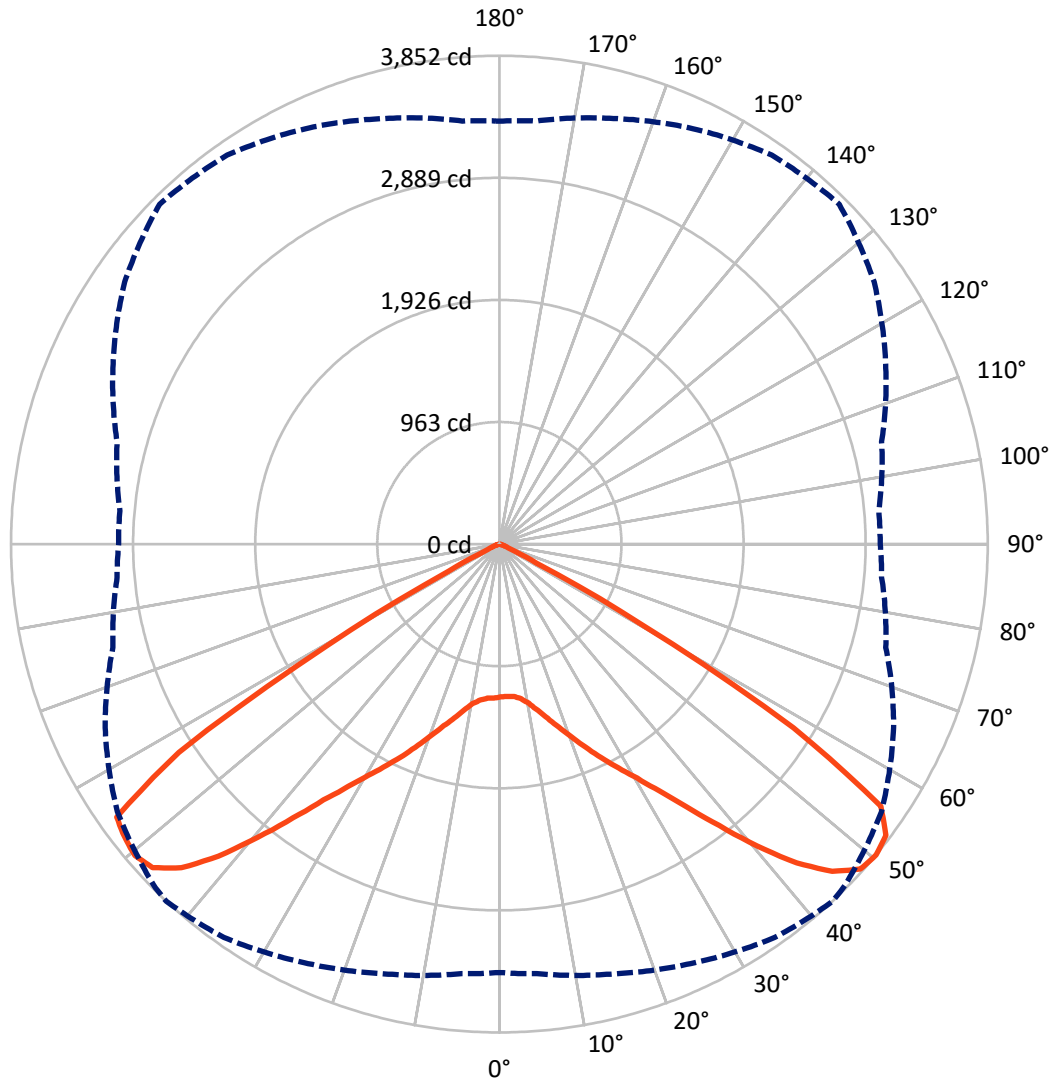
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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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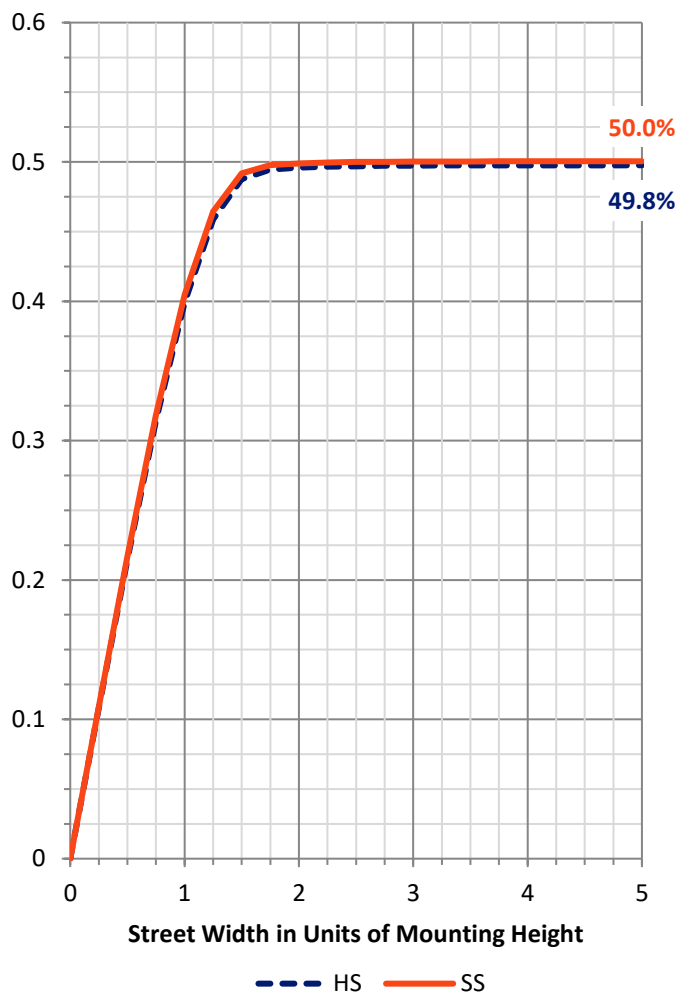
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4238.2	0.0	4238.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4238.5	0.0	4238.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8476.7	0.0	8476.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	1.4
10°-20°	408.6	4.8
20°-30°	826.6	9.8
30°-40°	1533.7	18.1
40°-50°	2545.9	30.0
50°-60°	2598.2	30.7
60°-70°	426.1	5.0
70°-80°	18.7	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°	8476.7	100.0
0°-180°	8476.7	100.0

**Coefficient of Utilization**

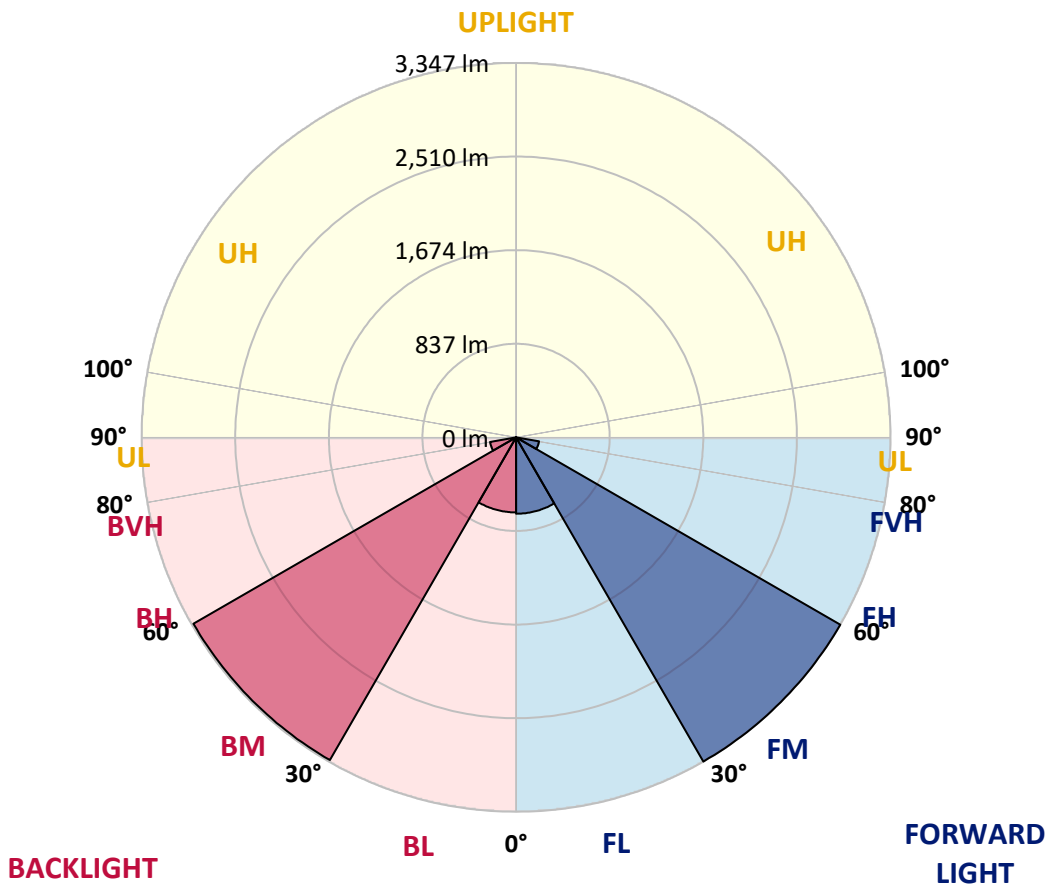


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.9	8.1			
FM (30°-60°)	3347.0	39.5			
FH (60°-80°)	208.4	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	671.0	7.9	B2/1000		
BM (30°-60°)	3330.7	39.3	B3/5000		
BH (60°-80°)	236.3	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°	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1183.2	1186.0	1189.7	1193.5	1198.2	1202.9	1205.7	1214.1	1212.2	1219.7	1219.7
5°	1170.0	1172.9	1177.6	1186.0	1196.3	1206.6	1214.1	1231.0	1240.4	1255.4	1261.0
7.5°	1176.6	1180.4	1186.0	1199.1	1215.1	1231.0	1239.4	1266.6	1285.4	1313.5	1329.4
10°	1198.2	1201.9	1211.3	1233.8	1254.4	1276.9	1287.2	1321.9	1351.9	1390.4	1412.9
12.5°	1222.6	1227.2	1246.0	1279.7	1315.4	1345.4	1359.4	1397.9	1428.8	1471.9	1507.6
15°	1247.9	1255.4	1284.4	1334.1	1384.7	1425.1	1440.1	1481.3	1512.3	1558.2	1598.5
17.5°	1306.9	1315.4	1348.2	1401.6	1471.0	1517.9	1531.0	1574.1	1597.6	1628.5	1670.7
20°	1381.0	1396.9	1437.2	1501.9	1577.9	1622.9	1632.3	1674.4	1672.6	1685.7	1722.3
22.5°	1472.9	1484.1	1528.2	1605.1	1690.4	1740.1	1761.6	1779.5	1756.0	1744.8	1768.2
25°	1568.5	1581.6	1629.4	1713.8	1809.5	1866.6	1884.5	1898.5	1861.0	1818.8	1821.6
27.5°	1692.3	1701.6	1748.5	1838.5	1934.1	1998.8	2014.8	2039.1	1989.5	1922.0	1903.2
30°	1839.5	1848.8	1898.5	1993.2	2087.9	2143.2	2167.6	2197.6	2143.2	2058.8	2037.3
32.5°	2012.0	2021.3	2085.1	2182.6	2260.4	2320.4	2343.9	2375.7	2332.6	2237.9	2213.5
35°	2218.2	2223.8	2298.8	2404.8	2487.3	2545.4	2561.4	2598.9	2551.0	2456.4	2443.2
37.5°	2457.3	2463.9	2545.4	2668.2	2752.6	2817.3	2842.6	2852.9	2794.8	2688.9	2678.6
40°	2719.8	2741.4	2821.1	2953.3	3047.9	3129.5	3152.0	3117.3	3035.8	2891.4	2872.6
42.5°	2993.6	3012.3	3101.4	3244.8	3354.5	3438.0	3438.9	3363.9	3225.1	3025.4	2997.3
45°	3221.4	3228.9	3344.2	3488.6	3623.6	3682.7	3688.3	3552.3	3343.3	3103.3	3043.3
47.5°	3378.0	3390.1	3490.5	3629.2	3778.3	3831.7	3820.5	3650.8	3399.5	3153.9	3054.5
50°	3379.8	3400.5	3509.2	3643.3	3787.7	3852.4	3836.4	3678.9	3431.4	3155.8	3027.3
52.5°	3080.8	3114.5	3291.7	3485.8	3707.0	3817.7	3821.4	3715.5	3419.2	3125.8	3002.9
55°	2324.2	2360.7	2583.9	2914.8	3342.3	3650.8	3704.2	3672.3	3405.1	3138.9	3046.1
57.5°	1230.1	1201.9	1325.7	1653.8	2191.0	2736.7	2893.2	3148.3	3248.6	3154.8	3125.8
60°	268.1	285.9	380.6	512.8	855.0	1287.2	1440.1	1877.0	2396.4	2627.0	2793.9
62.5°	115.3	113.4	118.1	134.1	195.9	326.3	398.5	650.7	1026.6	1410.1	1669.8
65°	94.7	95.6	99.4	99.4	92.8	93.8	98.4	149.1	240.0	336.6	451.9
67.5°	71.3	72.2	78.8	80.6	75.9	67.5	66.6	56.3	59.1	74.1	76.9
70°	45.0	45.0	48.8	50.6	50.6	46.9	45.9	40.3	39.4	45.0	50.6
72.5°	24.4	24.4	26.3	27.2	26.3	25.3	25.3	24.4	23.4	27.2	34.7
75°	10.3	10.3	11.3	11.3	10.3	10.3	10.3	10.3	10.3	12.2	18.8
77.5°	1.9	2.8	3.8	2.8	1.9	1.9	1.9	2.8	2.8	3.8	5.6
80°	0.9	0.9	1.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1226.3	1216.0	1219.7	1221.6	1218.8	1216.9	1206.6	1203.8	1199.1	1191.6	1189.7
5°	1267.6	1259.1	1258.2	1252.6	1239.4	1223.5	1203.8	1195.4	1186.0	1176.6	1174.7
7.5°	1336.9	1326.6	1320.1	1301.3	1271.3	1246.0	1213.2	1195.4	1183.2	1171.0	1168.2
10°	1426.0	1413.8	1395.1	1360.4	1320.1	1283.5	1245.1	1221.6	1202.9	1186.0	1185.1
12.5°	1520.7	1507.6	1473.8	1429.7	1381.0	1347.2	1298.5	1265.7	1237.6	1212.2	1209.4
15°	1620.1	1604.1	1558.2	1505.7	1460.7	1426.0	1372.6	1320.1	1276.9	1240.4	1236.6
17.5°	1696.0	1676.3	1621.9	1582.6	1546.0	1510.4	1450.4	1381.0	1323.8	1279.7	1269.4
20°	1743.8	1725.1	1673.5	1651.9	1635.1	1609.8	1538.5	1466.3	1402.6	1348.2	1338.8
22.5°	1789.8	1767.3	1722.3	1722.3	1735.4	1725.1	1648.2	1565.7	1490.7	1427.9	1413.8
25°	1841.3	1823.5	1791.6	1817.9	1850.7	1849.8	1771.0	1667.9	1581.6	1511.3	1497.3
27.5°	1916.3	1898.5	1887.3	1937.0	1978.2	1975.4	1889.1	1777.6	1686.6	1617.3	1604.1
30°	2048.5	2031.6	2019.5	2079.5	2132.0	2112.3	2017.6	1909.8	1817.9	1739.1	1729.8
32.5°	2224.8	2207.0	2191.0	2251.0	2297.9	2272.6	2182.6	2081.3	1975.4	1898.5	1879.8
35°	2456.4	2418.9	2402.9	2474.2	2493.9	2465.7	2379.5	2290.4	2177.9	2089.8	2077.6
37.5°	2695.4	2651.4	2640.1	2702.0	2733.9	2723.6	2622.3	2529.5	2407.6	2310.1	2296.0
40°	2899.8	2859.5	2839.8	2936.4	3008.6	3015.1	2924.2	2810.7	2667.3	2566.0	2540.7
42.5°	3019.8	2985.1	2980.4	3130.4	3248.6	3333.0	3224.2	3107.0	2956.1	2841.7	2821.1
45°	3047.0	3024.5	3063.9	3260.8	3444.5	3598.3	3505.5	3381.7	3218.6	3097.6	3077.9
47.5°	3044.2	3036.7	3107.0	3328.3	3560.8	3750.2	3704.2	3564.5	3407.0	3280.5	3261.7
50°	3003.9	3004.8	3122.0	3362.0	3607.7	3791.4	3745.5	3616.1	3475.5	3350.8	3335.8
52.5°	2987.9	2982.3	3093.9	3351.7	3655.5	3772.7	3669.5	3524.2	3367.6	3213.9	3191.4
55°	3044.2	3030.1	3097.6	3343.3	3661.1	3762.3	3490.5	3175.4	2854.8	2672.9	2657.9
57.5°	3128.6	3113.6	3145.4	3281.4	3367.6	3128.6	2568.9	2060.7	1730.7	1591.0	1530.1
60°	2793.9	2783.6	2759.2	2595.1	2225.7	1679.1	1143.8	729.4	524.1	423.8	423.8
62.5°	1733.5	1719.4	1587.3	1179.4	856.9	496.0	272.8	170.6	129.4	120.9	120.0
65°	486.6	483.8	400.3	283.1	180.0	111.6	98.4	100.3	98.4	95.6	94.7
67.5°	73.1	80.6	80.6	65.6	62.8	70.3	82.5	88.1	83.4	78.8	76.9
70°	46.9	50.6	48.8	42.2	45.0	52.5	59.1	60.0	57.2	52.5	51.6
72.5°	32.8	36.6	30.0	27.2	28.1	30.9	33.8	33.8	32.8	30.9	29.1
75°	19.7	19.7	14.1	13.1	13.1	14.1	14.1	15.9	15.9	15.0	14.1
77.5°	6.6	7.5	4.7	3.8	3.8	3.8	4.7	5.6	5.6	4.7	3.8
80°	0.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	0.9
82.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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)