

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: P641953

Luminaire Tested: GWS-SA6B-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

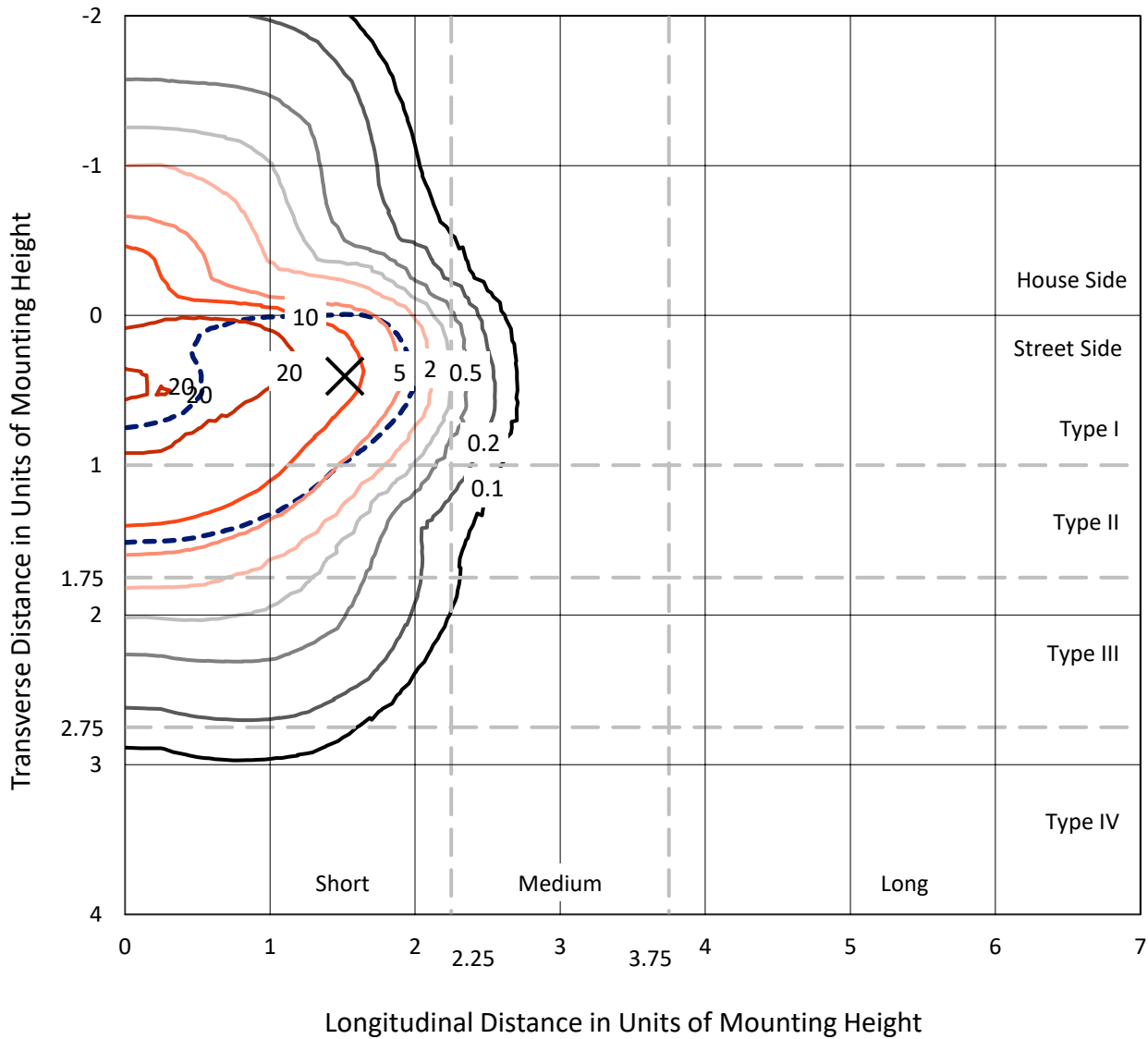
Lumens per Lamp: N/A  
Luminaire Lumens: 9990.6 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

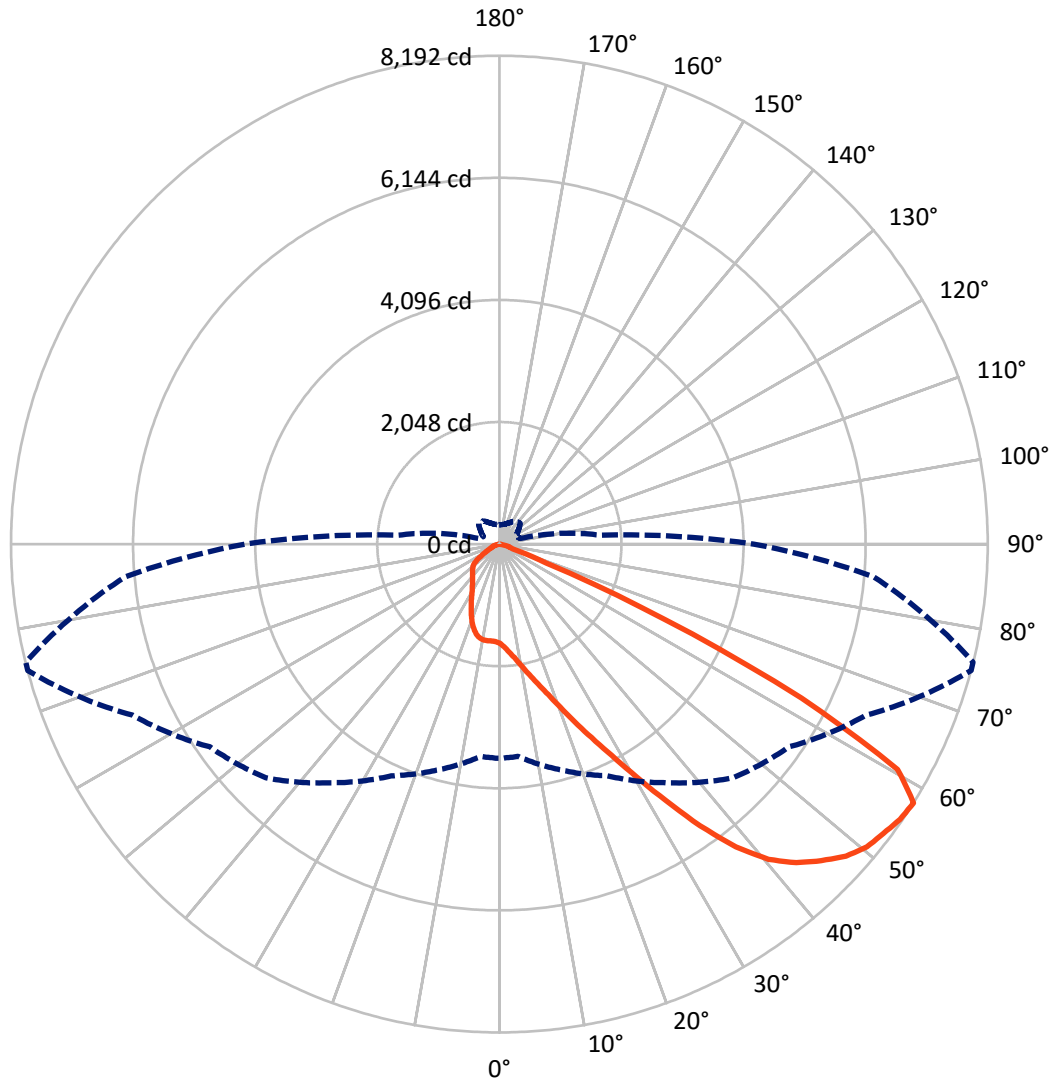
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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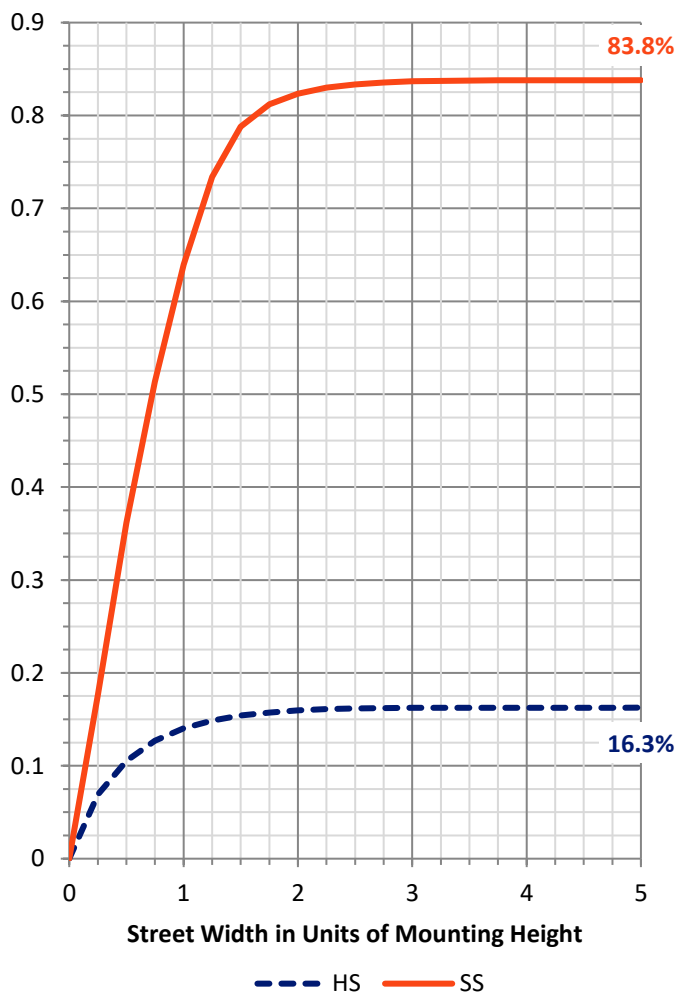
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1631.9	0.0	1631.9
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8358.7	0.0	8358.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	9990.6	0.0	9990.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	1.7
10°-20°	550.8	5.5
20°-30°	1008.6	10.1
30°-40°	1673.4	16.8
40°-50°	2555.7	25.6
50°-60°	2871.8	28.7
60°-70°	1059.3	10.6
70°-80°	101.2	1.0
80°-90°	0.1	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°	9990.6	100.0
0°-180°	9990.6	100.0

**Coefficient of Utilization**



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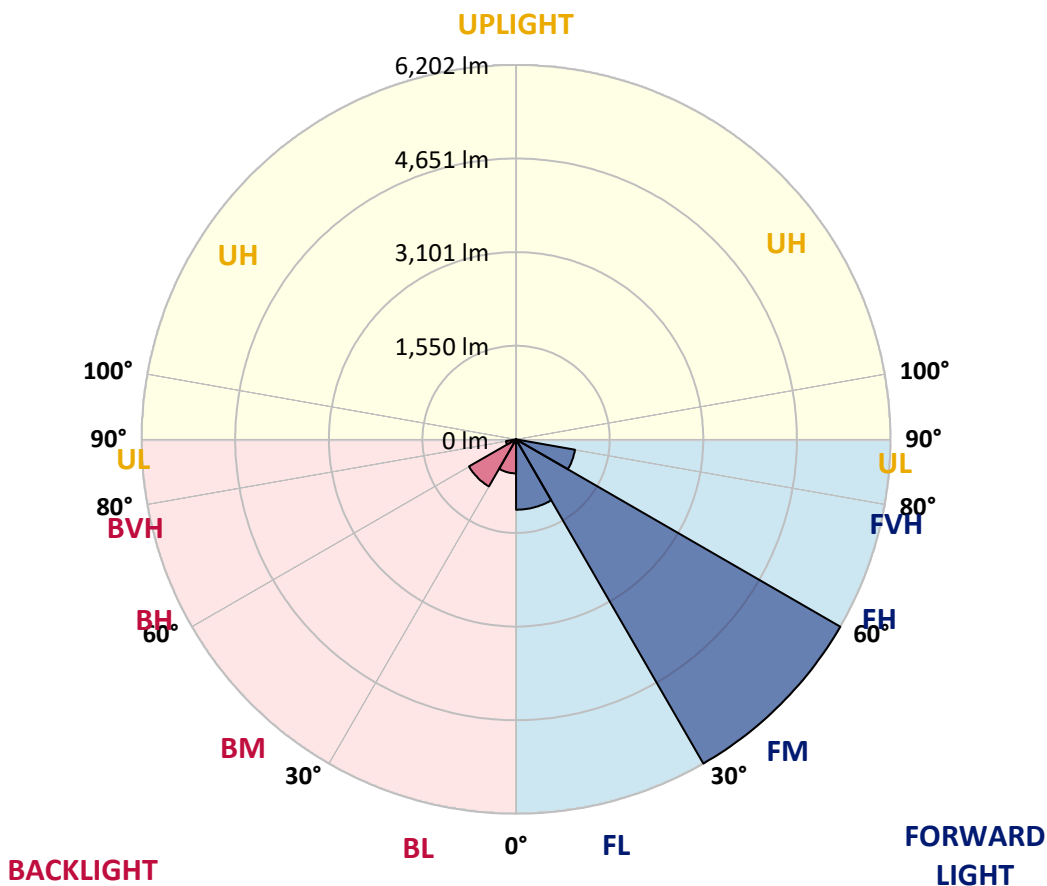
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.9	11.7			
FM (30°-60°)	6201.7	62.1			
FH (60°-80°)	991.0	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	563.1	5.6	B2/1000		
BM (30°-60°)	899.3	9.0	B1/1000		
BH (60°-80°)	169.5	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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°	45°	55°	65°	75°	76°	85°
0°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1861.6	1880.9	1874.9	1862.8	1855.6	1830.3	1814.6	1768.8	1736.2	1732.6	1702.5
5°	2096.7	2093.1	2088.3	2073.8	2061.8	2022.0	1975.0	1897.8	1829.1	1820.6	1756.7
7.5°	2225.7	2228.2	2230.6	2228.2	2219.7	2189.6	2137.7	2047.3	1942.4	1935.2	1833.9
10°	2278.8	2283.6	2295.7	2318.6	2339.1	2336.7	2306.5	2213.7	2084.7	2072.6	1936.4
12.5°	2304.1	2310.1	2329.4	2372.8	2428.3	2471.7	2476.5	2393.3	2251.1	2231.8	2058.1
15°	2339.1	2345.1	2369.2	2425.9	2506.7	2592.3	2647.7	2594.7	2435.5	2415.0	2192.0
17.5°	2354.8	2363.2	2398.2	2472.9	2577.8	2709.2	2834.6	2829.8	2653.8	2638.1	2347.5
20°	2384.9	2390.9	2422.3	2503.1	2629.7	2819.0	3030.0	3105.9	2920.2	2897.3	2535.6
22.5°	2480.1	2482.6	2497.0	2547.7	2665.8	2898.5	3228.9	3427.8	3234.9	3204.8	2746.6
25°	2635.7	2634.5	2640.5	2648.9	2735.8	2979.3	3420.6	3790.8	3595.4	3562.9	2985.3
27.5°	2833.4	2833.4	2847.9	2823.8	2858.7	3079.4	3609.9	4207.9	4015.0	3969.2	3247.0
30°	3066.1	3064.9	3098.7	3060.1	3070.9	3237.3	3813.7	4662.5	4521.4	4464.7	3548.4
32.5°	3382.0	3374.8	3413.4	3360.3	3324.1	3476.1	4062.0	5137.5	5127.9	5041.1	3927.0
35°	3781.1	3769.1	3781.1	3729.3	3664.2	3810.0	4387.6	5611.4	5800.7	5709.0	4377.9
37.5°	4177.8	4216.4	4229.6	4140.4	4087.4	4233.3	4779.4	6035.8	6443.3	6348.1	4847.0
40°	4645.6	4633.5	4679.4	4579.3	4545.5	4707.1	5162.9	6351.7	6952.1	6861.7	5264.1
42.5°	4990.4	5012.1	5068.8	5013.3	4986.8	5138.7	5484.8	6536.2	7305.4	7216.2	5561.9
45°	5404.0	5419.7	5441.4	5395.6	5367.8	5517.3	5717.5	6616.9	7574.3	7477.8	5762.1
47.5°	5851.3	5863.4	5863.4	5769.3	5680.1	5741.6	5873.0	6662.8	7821.4	7728.6	5910.4
50°	6172.0	6178.1	6231.1	6164.8	5970.7	5875.4	5944.2	6707.4	7985.4	7898.6	5958.6
52.5°	5887.5	5880.3	6055.1	6192.5	6244.4	6055.1	6067.1	6772.5	8065.0	7990.2	5997.2
55°	4957.9	4945.8	5191.8	5525.8	5982.7	6225.1	6215.4	6811.1	8153.0	8107.2	6137.1
57.5°	3594.2	3573.7	3916.2	4287.5	4886.7	5543.9	5929.7	6789.4	8191.6	8188.0	6299.8
60°	2160.6	2143.8	2466.9	2857.5	3320.5	3981.3	4621.5	6081.6	7675.6	7682.8	5876.6
62.5°	1329.9	1345.6	1637.4	1836.3	2008.7	2207.7	2577.8	4091.0	5686.1	5733.2	4129.6
65°	894.6	906.7	1176.8	1427.6	1427.6	1167.1	1001.9	1955.7	3033.6	2954.0	1953.3
67.5°	600.4	613.7	827.1	1120.1	1162.3	813.9	406.3	583.6	845.2	819.9	483.5
70°	353.3	367.7	551.0	768.0	846.4	566.7	271.3	247.2	239.9	232.7	188.1
72.5°	157.9	164.0	280.9	390.7	356.9	238.7	191.7	197.7	186.9	183.3	153.1
75°	48.2	50.6	72.3	84.4	85.6	85.6	115.7	155.5	147.1	148.3	118.2
77.5°	12.1	12.1	19.3	18.1	9.6	8.4	21.7	35.0	36.2	32.6	24.1
80°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1689.2	1657.9	1637.4	1608.4	1587.9	1566.2	1546.9	1531.3	1522.8	1520.4	1521.6
5°	1727.8	1678.4	1630.1	1574.7	1536.1	1499.9	1471.0	1448.1	1437.2	1433.6	1433.6
7.5°	1786.9	1718.1	1632.5	1545.7	1480.6	1423.9	1390.2	1364.9	1355.2	1352.8	1345.6
10°	1864.0	1770.0	1628.9	1493.9	1402.2	1343.2	1319.0	1311.8	1315.4	1316.6	1315.4
12.5°	1956.9	1824.2	1606.0	1417.9	1319.0	1282.9	1285.3	1304.6	1326.3	1337.1	1339.5
15°	2055.7	1873.7	1554.2	1327.5	1247.9	1246.7	1281.7	1326.3	1368.5	1386.6	1391.4
17.5°	2166.7	1913.5	1474.6	1231.0	1186.4	1221.4	1284.1	1352.8	1409.5	1439.6	1445.6
20°	2288.4	1946.0	1373.3	1140.6	1132.2	1194.9	1281.7	1366.1	1436.0	1469.8	1475.8
22.5°	2415.0	1968.9	1256.4	1057.4	1082.7	1164.7	1258.8	1340.8	1407.1	1445.6	1450.5
25°	2559.7	1971.3	1137.0	987.5	1036.9	1123.7	1203.3	1270.8	1326.3	1360.0	1363.7
27.5°	2686.3	1942.4	1030.9	930.8	994.7	1073.1	1126.1	1163.5	1202.1	1221.4	1222.6
30°	2832.2	1891.8	930.8	885.0	951.3	1010.4	1036.9	1045.4	1049.0	1052.6	1047.8
32.5°	3005.8	1830.3	856.1	840.4	901.9	941.7	948.9	932.0	911.5	882.6	875.3
35°	3219.2	1774.8	794.6	797.0	847.6	871.7	865.7	829.5	789.7	754.8	748.7
37.5°	3450.7	1727.8	747.5	754.8	788.5	805.4	787.3	747.5	729.5	699.3	700.5
40°	3655.7	1689.2	705.3	712.6	728.2	743.9	715.0	688.5	722.2	719.8	722.2
42.5°	3801.6	1656.6	669.2	665.6	676.4	687.3	665.6	652.3	709.0	693.3	701.7
45°	3887.2	1626.5	639.0	617.3	634.2	653.5	639.0	622.1	641.4	569.1	563.1
47.5°	3945.1	1609.6	612.5	570.3	600.4	634.2	604.1	563.1	535.3	472.6	467.8
50°	3951.1	1601.2	581.2	522.1	560.7	596.8	561.9	505.2	465.4	437.7	434.1
52.5°	3982.5	1618.1	537.7	460.6	502.8	560.7	536.5	479.9	425.6	401.5	396.7
55°	4122.3	1689.2	465.4	376.2	437.7	532.9	516.0	428.0	376.2	361.7	358.1
57.5°	4267.0	1703.7	366.5	297.8	381.0	493.1	471.4	394.3	343.6	326.7	323.1
60°	3901.7	1403.4	274.9	246.0	336.4	455.8	436.5	373.8	314.7	294.2	290.6
62.5°	2563.3	758.4	218.2	208.6	283.3	385.8	397.9	337.6	280.9	259.2	258.0
65°	1181.6	352.1	167.6	165.2	221.9	307.5	342.4	295.4	237.5	218.2	218.2
67.5°	321.9	174.8	131.4	121.8	150.7	206.2	249.6	220.6	168.8	145.9	144.7
70°	160.4	141.1	118.2	104.9	108.5	127.8	147.1	123.0	85.6	69.9	68.7
72.5°	131.4	115.7	100.1	89.2	82.0	78.4	76.0	61.5	39.8	30.1	28.9
75°	97.7	83.2	71.1	57.9	49.4	45.8	41.0	30.1	16.9	9.6	8.4
77.5°	21.7	20.5	19.3	14.5	13.3	10.9	8.4	6.0	2.4	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)