

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: P637663

Luminaire Tested: GWS-SA4D-730-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637663  
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-SA4D-730-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

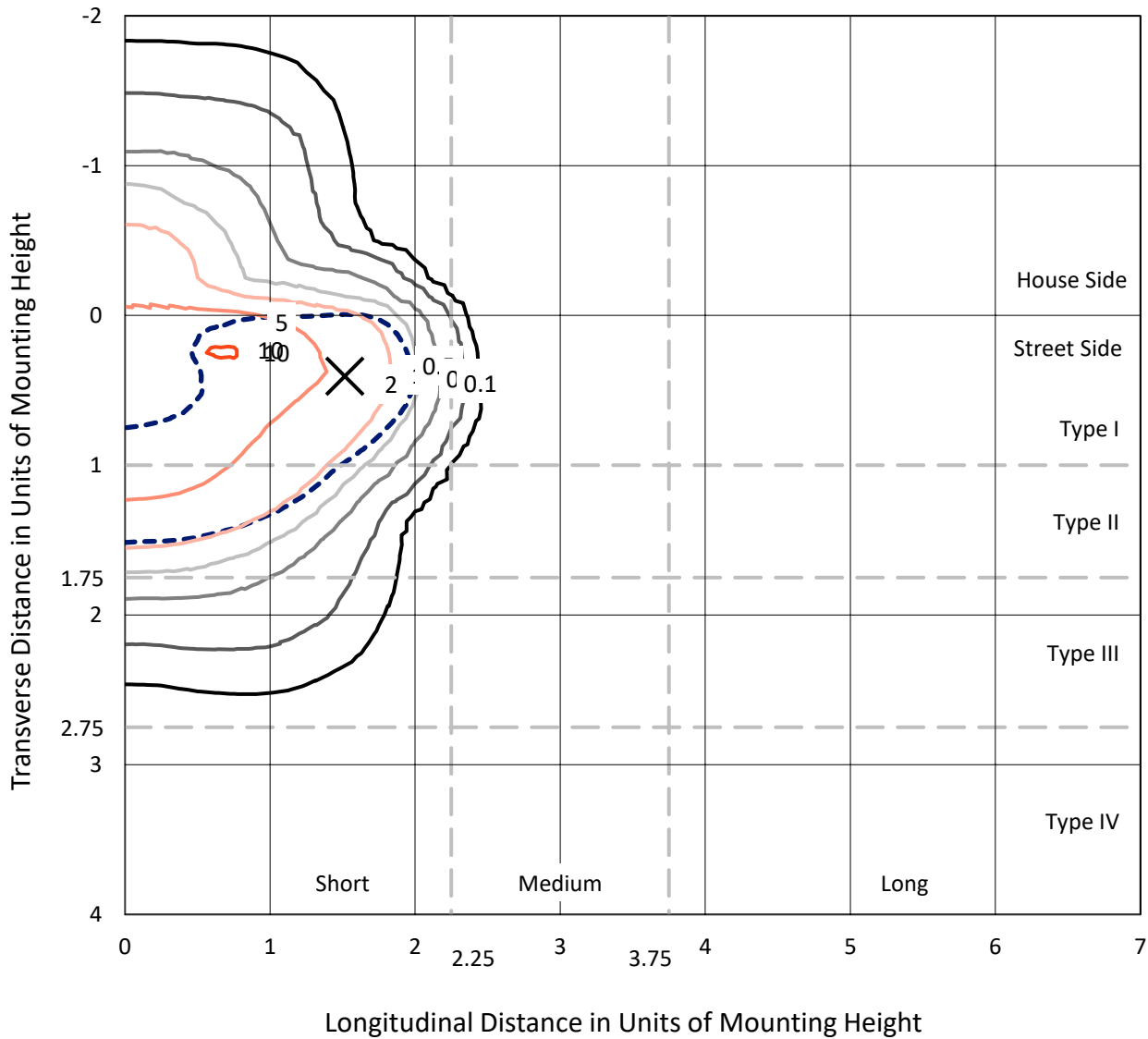
Lumens per Lamp: N/A  
Luminaire Lumens: 13246.2 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

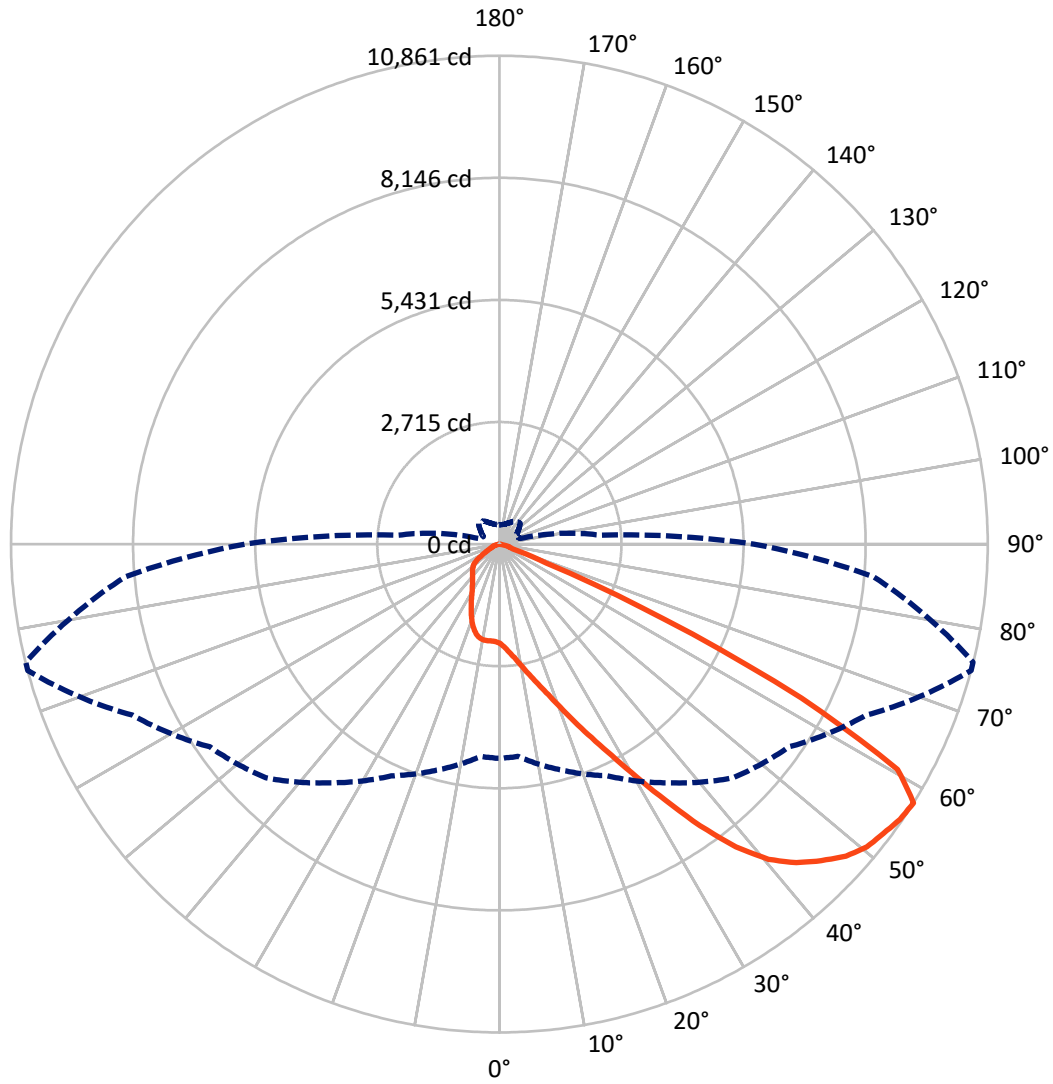
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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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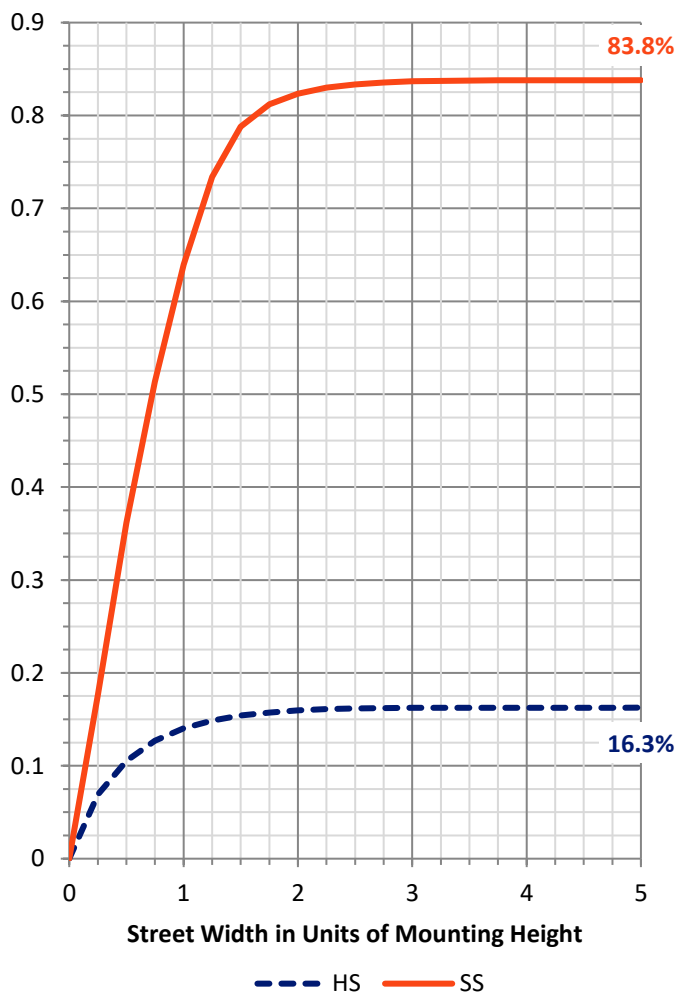
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2163.7	0.0	2163.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	11082.5	0.0	11082.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	13246.2	0.0	13246.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	1.7
10°-20°	730.3	5.5
20°-30°	1337.3	10.1
30°-40°	2218.8	16.8
40°-50°	3388.6	25.6
50°-60°	3807.7	28.7
60°-70°	1404.4	10.6
70°-80°	134.2	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°	13246.2	100.0
0°-180°	13246.2	100.0

**Coefficient of Utilization**



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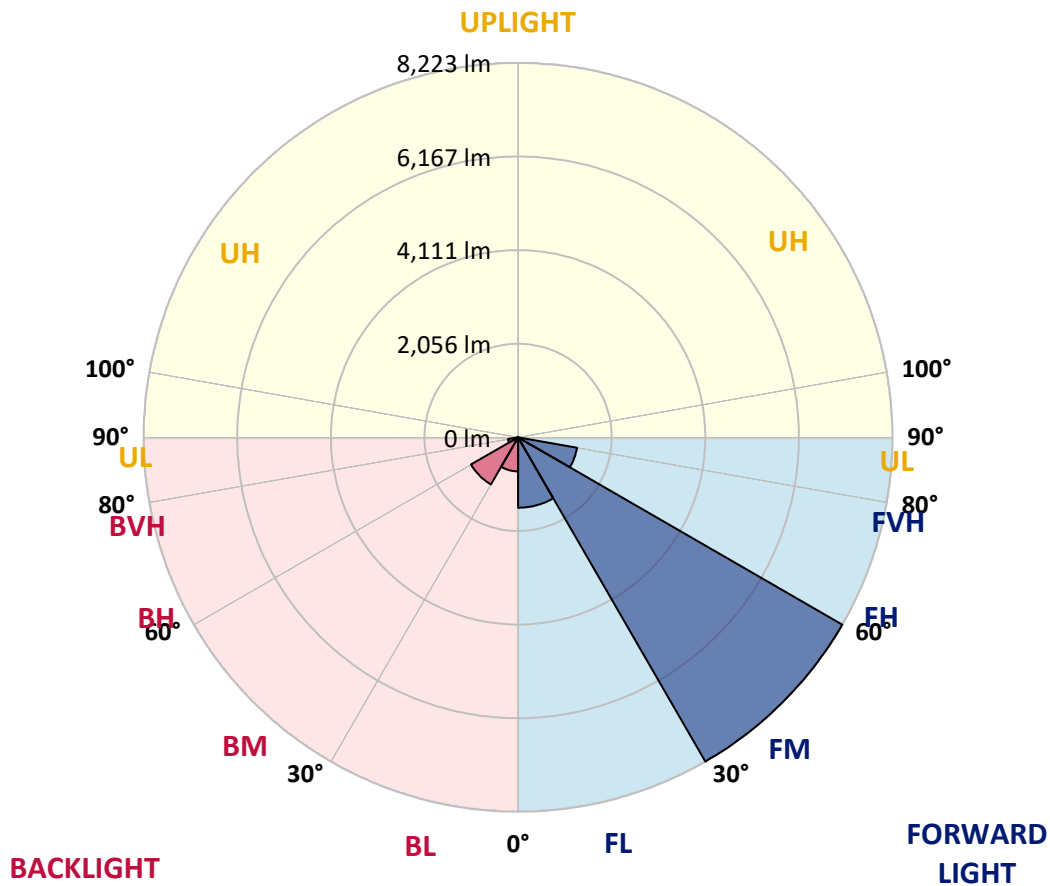
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.8	11.7			
FM (30°-60°)	8222.6	62.1			
FH (60°-80°)	1314.0	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	746.6	5.6	B2/1000		
BM (30°-60°)	1192.4	9.0	B2/2500		
BH (60°-80°)	224.7	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°	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3
2.5°	2468.3	2493.8	2485.8	2469.9	2460.3	2426.7	2405.9	2345.2	2302.0	2297.2	2257.2
5°	2780.0	2775.2	2768.8	2749.6	2733.6	2680.9	2618.5	2516.2	2425.1	2413.9	2329.2
7.5°	2951.0	2954.2	2957.4	2954.2	2943.0	2903.1	2834.3	2714.4	2575.4	2565.8	2431.5
10°	3021.4	3027.8	3043.8	3074.1	3101.3	3098.1	3058.1	2935.1	2764.0	2748.0	2567.4
12.5°	3054.9	3062.9	3088.5	3146.1	3219.6	3277.2	3283.5	3173.2	2984.6	2959.0	2728.8
15°	3101.3	3109.3	3141.3	3216.4	3323.5	3437.0	3510.6	3440.2	3229.2	3202.0	2906.3
17.5°	3122.1	3133.3	3179.6	3278.8	3417.8	3592.1	3758.3	3751.9	3518.5	3497.8	3112.5
20°	3162.1	3170.0	3211.6	3318.7	3486.6	3737.6	4017.3	4118.0	3871.8	3841.5	3361.9
22.5°	3288.3	3291.5	3310.7	3377.9	3534.5	3843.1	4281.1	4544.9	4289.1	4249.1	3641.6
25°	3494.6	3493.0	3501.0	3512.2	3627.3	3950.2	4535.3	5026.0	4767.1	4723.9	3958.2
27.5°	3756.7	3756.7	3775.9	3743.9	3790.3	4082.9	4786.2	5579.2	5323.4	5262.6	4305.1
30°	4065.3	4063.7	4108.4	4057.3	4071.7	4292.3	5056.4	6181.8	5994.8	5919.7	4704.7
32.5°	4484.1	4474.5	4525.7	4455.3	4407.4	4608.8	5385.7	6811.7	6798.9	6683.8	5206.7
35°	5013.2	4997.3	5013.2	4944.5	4858.2	5051.6	5817.3	7439.9	7690.9	7569.4	5804.6
37.5°	5539.2	5590.3	5607.9	5489.6	5419.3	5612.7	6336.9	8002.7	8543.0	8416.7	6426.4
40°	6159.5	6143.5	6204.2	6071.5	6026.8	6241.0	6845.3	8421.5	9217.6	9097.7	6979.5
42.5°	6616.7	6645.4	6720.6	6647.0	6611.9	6813.3	7272.1	8666.1	9686.0	9567.7	7374.4
45°	7165.0	7185.8	7214.5	7153.8	7117.0	7315.2	7580.6	8773.2	10042.5	9914.6	7639.8
47.5°	7758.1	7774.1	7774.1	7649.4	7531.1	7612.6	7786.8	8833.9	10370.2	10247.1	7836.4
50°	8183.3	8191.3	8261.6	8173.7	7916.3	7790.0	7881.2	8893.1	10587.6	10472.5	7900.3
52.5°	7806.0	7796.4	8028.2	8210.5	8279.2	8028.2	8044.2	8979.4	10693.1	10594.0	7951.5
55°	6573.5	6557.5	6883.6	7326.4	7932.3	8253.6	8240.8	9030.6	10809.8	10749.1	8136.9
57.5°	4765.5	4738.3	5192.3	5684.7	6479.2	7350.4	7862.0	9001.8	10861.0	10856.2	8352.7
60°	2864.7	2842.3	3270.8	3788.7	4402.6	5278.6	6127.5	8063.4	10176.8	10186.4	7791.6
62.5°	1763.3	1784.1	2170.9	2434.7	2663.3	2927.1	3417.8	5424.1	7539.1	7601.4	5475.2
65°	1186.2	1202.2	1560.2	1892.8	1892.8	1547.5	1328.4	2592.9	4022.1	3916.6	2589.8
67.5°	796.1	813.7	1096.6	1485.1	1541.1	1079.1	538.7	773.7	1120.6	1087.1	641.0
70°	468.4	487.6	730.6	1018.3	1122.2	751.3	359.7	327.7	318.1	308.5	249.4
72.5°	209.4	217.4	372.5	518.0	473.2	316.5	254.2	262.2	247.8	243.0	203.0
75°	63.9	67.1	95.9	111.9	113.5	113.5	153.5	206.2	195.0	196.6	156.7
77.5°	16.0	16.0	25.6	24.0	12.8	11.2	28.8	46.4	48.0	43.2	32.0
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
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°	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3	2209.3
2.5°	2239.7	2198.1	2170.9	2132.5	2105.4	2076.6	2051.0	2030.2	2019.0	2015.8	2017.4
5°	2290.8	2225.3	2161.3	2087.8	2036.6	1988.7	1950.3	1919.9	1905.5	1900.7	1900.7
7.5°	2369.1	2278.0	2164.5	2049.4	1963.1	1888.0	1843.2	1809.6	1796.8	1793.6	1784.1
10°	2471.5	2346.8	2159.7	1980.7	1859.2	1780.9	1748.9	1739.3	1744.1	1745.7	1744.1
12.5°	2594.5	2418.7	2129.4	1880.0	1748.9	1700.9	1704.1	1729.7	1758.5	1772.9	1776.1
15°	2725.6	2484.2	2060.6	1760.1	1654.6	1653.0	1699.3	1758.5	1814.4	1838.4	1844.8
17.5°	2872.7	2537.0	1955.1	1632.2	1573.0	1619.4	1702.5	1793.6	1868.8	1908.7	1916.7
20°	3034.2	2580.2	1820.8	1512.3	1501.1	1584.2	1699.3	1811.2	1903.9	1948.7	1956.7
22.5°	3202.0	2610.5	1665.8	1402.0	1435.6	1544.3	1669.0	1777.7	1865.6	1916.7	1923.1
25°	3393.9	2613.7	1507.5	1309.3	1374.8	1489.9	1595.4	1684.9	1758.5	1803.2	1808.0
27.5°	3561.7	2575.4	1366.8	1234.1	1318.9	1422.8	1493.1	1542.7	1593.8	1619.4	1621.0
30°	3755.1	2508.2	1234.1	1173.4	1261.3	1339.6	1374.8	1386.0	1390.8	1395.6	1389.2
32.5°	3985.3	2426.7	1135.0	1114.2	1195.8	1248.5	1258.1	1235.7	1208.6	1170.2	1160.6
35°	4268.3	2353.2	1053.5	1056.7	1123.8	1155.8	1147.8	1099.8	1047.1	1000.7	992.7
37.5°	4575.2	2290.8	991.1	1000.7	1045.5	1067.9	1043.9	991.1	967.2	927.2	928.8
40°	4847.0	2239.7	935.2	944.8	965.6	986.3	948.0	912.8	957.6	954.4	957.6
42.5°	5040.4	2196.5	887.2	882.4	896.8	911.2	882.4	864.8	940.0	919.2	930.4
45°	5153.9	2156.5	847.3	818.5	840.9	866.4	847.3	824.9	850.5	754.5	746.6
47.5°	5230.7	2134.1	812.1	756.1	796.1	840.9	800.9	746.6	709.8	626.7	620.3
50°	5238.7	2123.0	770.5	692.2	743.4	791.3	745.0	669.8	617.1	580.3	575.5
52.5°	5280.2	2145.3	713.0	610.7	666.6	743.4	711.4	636.2	564.3	532.3	525.9
55°	5465.7	2239.7	617.1	498.8	580.3	706.6	684.2	567.5	498.8	479.6	474.8
57.5°	5657.5	2258.8	486.0	394.9	505.2	653.8	625.1	522.7	455.6	433.2	428.4
60°	5173.1	1860.8	364.5	326.1	446.0	604.3	578.7	495.6	417.2	390.1	385.3
62.5°	3398.6	1005.5	289.3	276.6	375.7	511.6	527.5	447.6	372.5	343.7	342.1
65°	1566.6	466.8	222.2	219.0	294.1	407.6	454.0	391.7	314.9	289.3	289.3
67.5°	426.8	231.8	174.2	161.5	199.8	273.4	330.9	292.5	223.8	193.4	191.8
70°	212.6	187.0	156.7	139.1	143.9	169.5	195.0	163.1	113.5	92.7	91.1
72.5°	174.2	153.5	132.7	118.3	108.7	103.9	100.7	81.5	52.8	40.0	38.4
75°	129.5	110.3	94.3	76.7	65.5	60.7	54.4	40.0	22.4	12.8	11.2
77.5°	28.8	27.2	25.6	19.2	17.6	14.4	11.2	8.0	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)