

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: P640167

Luminaire Tested: GWS-SA5D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

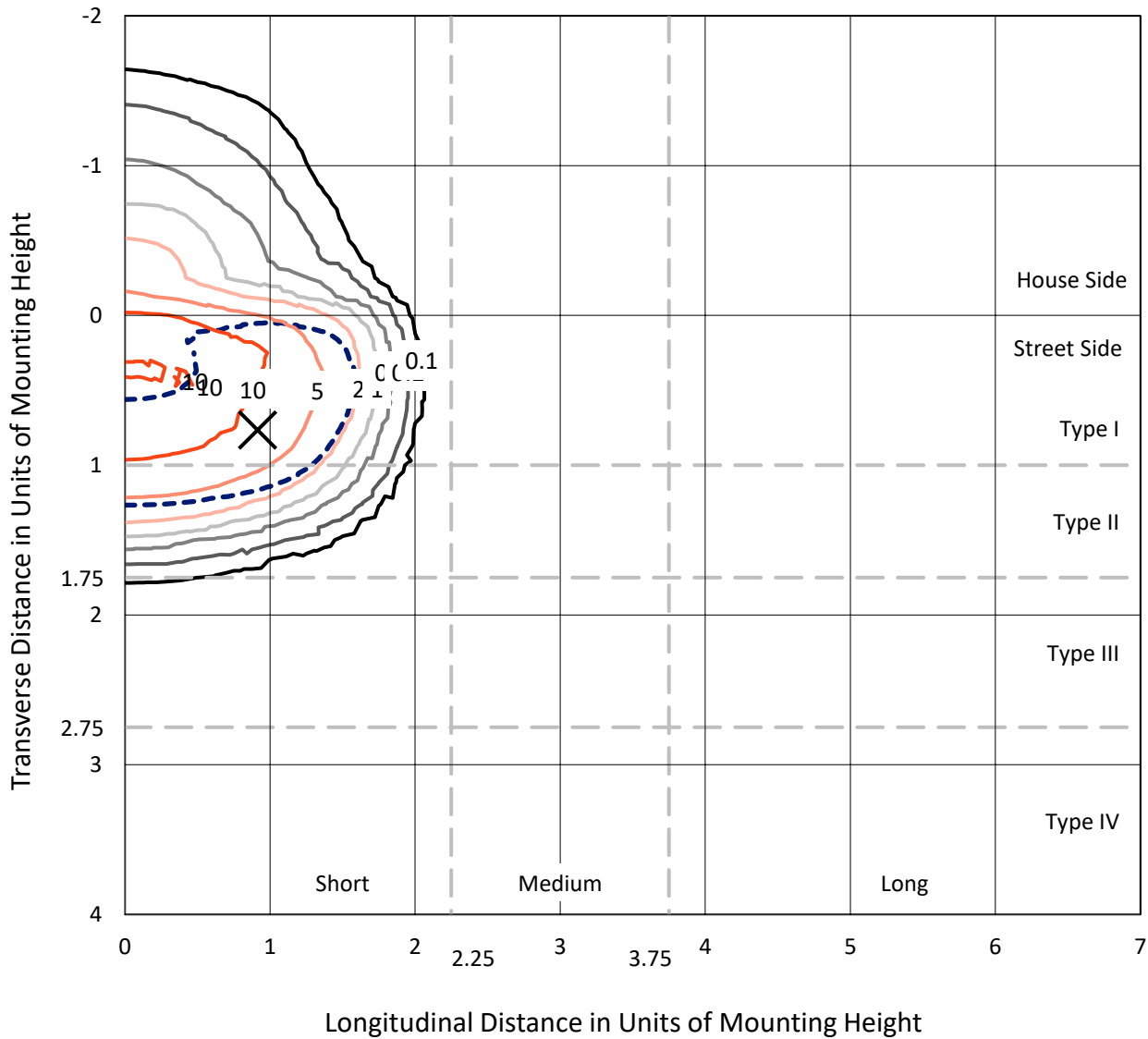
Lumens per Lamp: N/A  
Luminaire Lumens: 22315.1 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

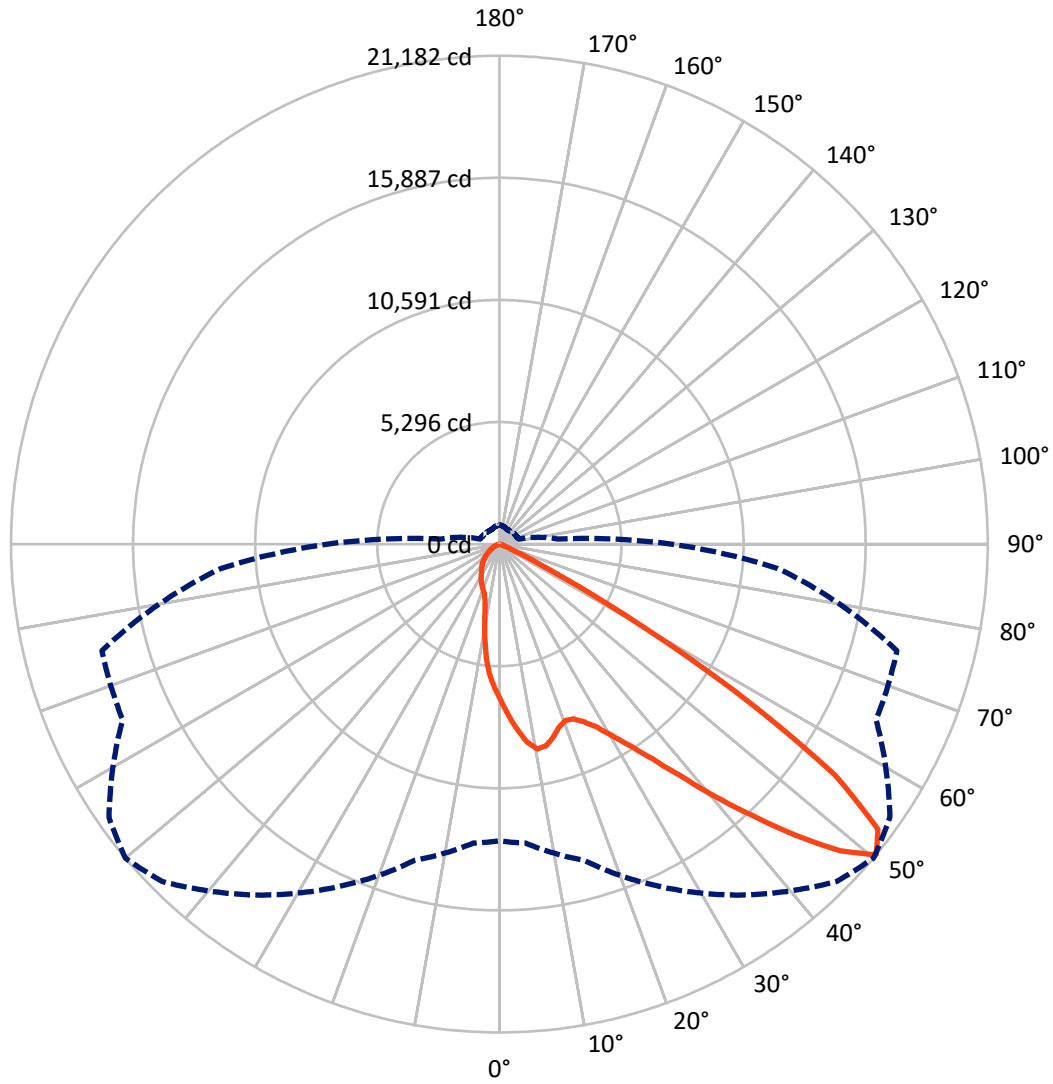
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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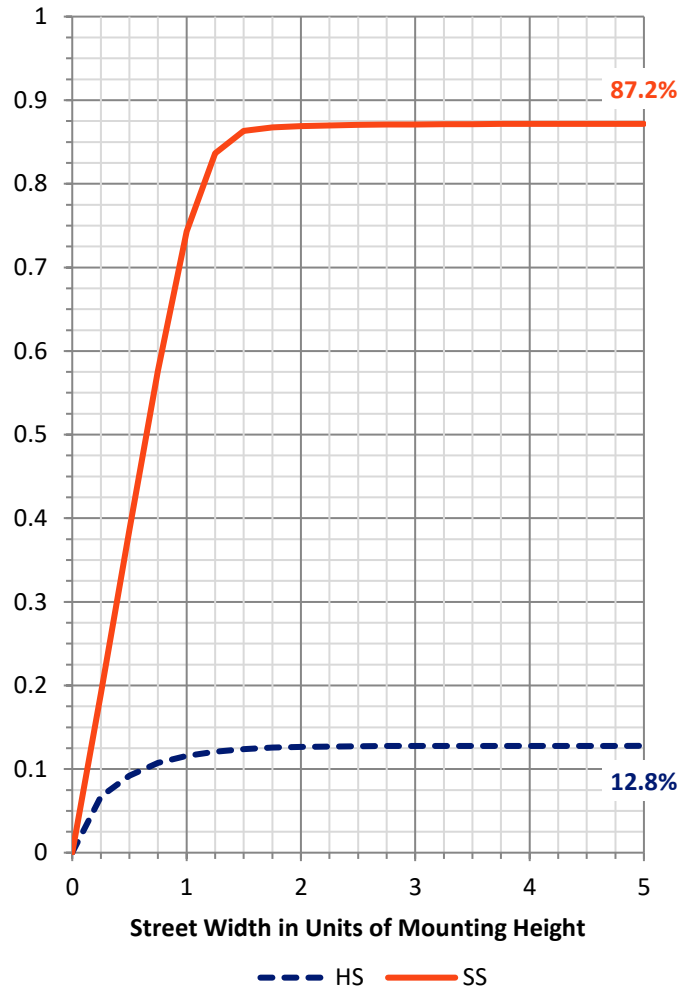
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2867.1	0.0	2867.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	19448.0	0.0	19448.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	22315.1	0.0	22315.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.1	2.8
10°-20°	1618.1	7.3
20°-30°	2670.4	12.0
30°-40°	4406.8	19.7
40°-50°	6972.5	31.2
50°-60°	5279.0	23.7
60°-70°	660.7	3.0
70°-80°	74.7	0.3
80°-90°	5.7	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°	22315.1	100.0
0°-180°	22315.1	100.0

**Coefficient of Utilization**



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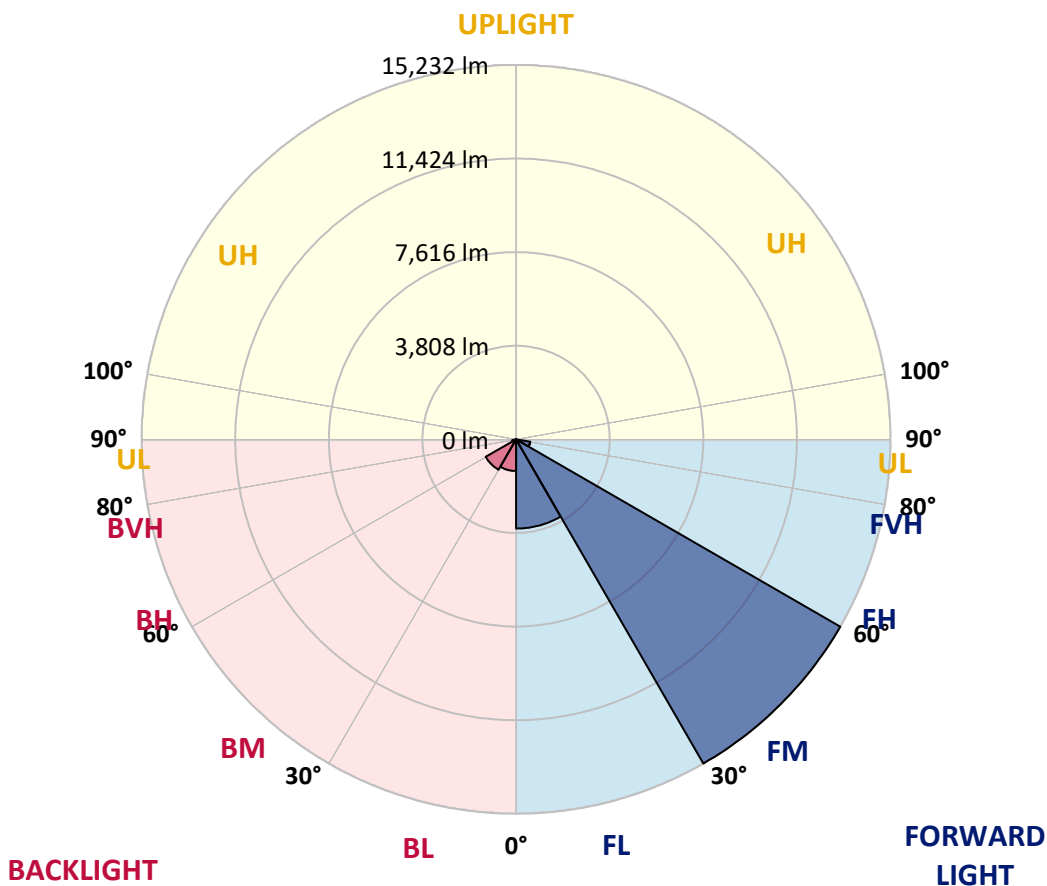
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.8	16.3			
FM (30°-60°)	15232.4	68.3			
FH (60°-80°)	584.1	2.6			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1286.9	5.8	B3/2500		
BM (30°-60°)	1425.9	6.4	B2/2500		
BH (60°-80°)	151.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6
2.5°	7703.6	7765.2	7748.2	7667.5	7580.4	7518.8	7423.3	7393.5	7176.9	7026.1	6866.8
5°	8633.9	8653.0	8631.8	8534.1	8381.2	8234.6	8077.4	7986.1	7622.9	7295.8	6962.4
7.5°	8856.9	8833.6	8873.9	8922.8	8901.5	8837.8	8672.2	8572.3	8139.0	7605.9	7100.4
10°	8160.3	8107.2	8258.0	8510.7	8776.2	9075.7	9033.2	9041.7	8642.4	7996.7	7281.0
12.5°	7236.4	7215.1	7327.7	7620.8	8141.2	8820.8	8984.4	9258.4	9103.3	8419.4	7487.0
15°	6830.7	6841.3	6909.3	7094.1	7467.9	8313.2	8706.1	9201.0	9515.4	8829.3	7714.2
17.5°	6892.3	6930.5	6928.4	6990.0	7217.2	7894.8	8353.6	9020.5	9834.0	9300.9	7975.5
20°	7310.7	7348.9	7291.6	7244.9	7321.3	7788.6	8168.8	8837.8	10048.5	9776.6	8251.6
22.5°	7937.3	7981.9	7845.9	7712.1	7663.3	7962.8	8238.9	8763.5	10212.0	10212.0	8498.0
25°	8695.5	8757.1	8546.8	8309.0	8173.0	8330.2	8538.3	8931.3	10379.8	10602.8	8665.8
27.5°	9543.0	9545.1	9364.6	9097.0	8842.1	8861.2	8986.5	9309.3	10564.6	11023.4	8797.5
30°	10496.6	10503.0	10263.0	9942.3	9621.6	9534.5	9640.7	9884.9	10949.1	11552.3	8980.1
32.5°	11728.5	11758.3	11414.2	10942.7	10526.4	10362.8	10424.4	10681.4	11560.8	12214.9	9254.1
35°	13393.7	13425.6	12918.0	12295.6	11633.0	11386.6	11448.2	11707.3	12446.4	13155.9	9691.7
37.5°	15037.7	15080.2	14566.2	13986.3	13077.3	12669.5	12733.2	12979.6	13776.1	14455.7	10392.6
40°	16174.0	16231.4	16072.1	15681.3	14838.0	14302.8	14379.3	14468.5	15239.5	16010.5	11301.6
42.5°	16773.0	16853.7	16921.6	17121.3	16677.4	16229.2	16099.7	16106.0	16728.4	17594.9	12246.8
45°	16809.1	16887.7	17236.0	18007.0	18344.7	18251.3	18015.5	17856.2	17864.7	18650.6	12837.3
47.5°	15640.9	15787.4	16439.5	17949.6	19219.8	19995.0	19876.1	19498.0	18342.6	18720.6	12773.5
50°	12873.4	13017.8	14203.0	16375.8	18582.6	20691.7	21182.3	20674.7	18030.4	17847.7	12117.2
52.5°	9349.7	9364.6	10133.4	12671.6	15999.8	19406.7	20562.1	20513.3	17554.6	16790.0	11220.9
55°	4441.2	4388.1	5252.6	7151.4	11065.9	15696.1	17643.8	18196.0	16879.2	16025.3	10526.4
57.5°	1293.5	1319.0	1703.4	2790.9	5535.1	10031.5	12083.3	13111.3	13854.6	13175.0	8164.5
60°	579.8	582.0	647.8	849.6	1843.6	4666.4	6246.6	7518.8	8283.5	7676.0	4050.4
62.5°	420.5	422.7	448.2	480.0	626.6	1580.2	2342.7	3122.2	3179.6	2081.5	1025.9
65°	350.5	350.5	354.7	354.7	375.9	565.0	711.5	917.6	773.1	573.5	401.4
67.5°	282.5	284.6	288.9	288.9	282.5	282.5	305.9	335.6	359.0	443.9	369.6
70°	220.9	218.8	218.8	220.9	214.5	182.7	197.5	225.1	246.4	346.2	320.7
72.5°	172.0	174.2	172.0	163.5	148.7	108.3	116.8	146.6	157.2	216.6	216.6
75°	129.6	131.7	123.2	93.5	61.6	34.0	44.6	72.2	91.3	106.2	78.6
77.5°	17.0	17.0	12.7	12.7	10.6	12.7	12.7	17.0	25.5	25.5	19.1
80°	2.1	2.1	2.1	4.2	6.4	8.5	8.5	8.5	8.5	10.6	10.6
82.5°	2.1	2.1	2.1	2.1	6.4	6.4	8.5	8.5	8.5	8.5	8.5
85°	0.0	0.0	0.0	2.1	4.2	6.4	6.4	8.5	8.5	8.5	8.5
87.5°	0.0	0.0	0.0	2.1	4.2	6.4	6.4	6.4	8.5	8.5	8.5
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°	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6	6760.6
2.5°	6771.2	6648.0	6499.3	6397.4	6253.0	6157.4	6021.4	5930.1	5851.5	5789.9	5823.9
5°	6773.3	6577.9	6274.2	6015.1	5732.6	5473.5	5195.2	4976.5	4778.9	4689.7	4738.6
7.5°	6815.8	6535.4	6070.3	5609.4	5067.8	4532.5	4031.3	3623.5	3421.7	3326.1	3355.9
10°	6898.6	6516.3	5843.0	5078.4	4199.1	3468.4	2982.1	2705.9	2593.4	2533.9	2544.5
12.5°	6975.1	6503.6	5547.8	4379.6	3313.4	2691.1	2438.3	2400.1	2423.4	2425.6	2423.4
15°	7079.2	6480.2	5182.5	3661.7	2650.7	2325.7	2332.1	2387.3	2442.6	2459.6	2455.3
17.5°	7189.6	6444.1	4711.0	2973.6	2249.3	2219.5	2293.9	2368.2	2423.4	2431.9	2434.1
20°	7304.3	6369.8	4173.6	2427.7	2062.4	2138.8	2221.7	2276.9	2317.2	2330.0	2334.2
22.5°	7357.4	6212.6	3553.4	2036.9	1937.1	2039.0	2100.6	2172.8	2185.6	2138.8	2147.3
25°	7329.8	5947.1	2948.1	1773.5	1811.7	1913.7	2005.0	1968.9	1915.8	1881.8	1892.5
27.5°	7242.7	5594.5	2355.5	1580.2	1677.9	1807.5	1818.1	1777.8	1769.3	1741.7	1750.1
30°	7149.3	5188.9	1894.6	1425.2	1542.0	1677.9	1646.1	1660.9	1663.1	1631.2	1641.8
32.5°	7091.9	4764.1	1508.0	1321.1	1454.9	1480.4	1544.1	1573.9	1576.0	1501.6	1514.4
35°	7111.0	4345.6	1276.5	1236.1	1374.2	1367.8	1457.0	1474.0	1350.8	1248.9	1259.5
37.5°	7266.1	3959.1	1144.8	1170.3	1234.0	1282.9	1350.8	1238.3	1210.7	1163.9	1170.3
40°	7555.0	3629.9	1066.2	1130.0	1138.4	1217.0	1113.0	1127.8	1130.0	1100.2	1106.6
42.5°	7892.7	3355.9	1019.5	1106.6	1085.3	1098.1	994.0	1023.8	1055.6	1042.9	1045.0
45°	8062.6	3088.2	979.1	1025.9	1032.2	911.2	887.8	919.7	960.0	966.4	968.5
47.5°	7911.8	2833.4	936.7	909.1	951.5	830.5	802.9	813.5	860.2	885.7	889.9
50°	7450.9	2540.3	873.0	805.0	781.6	745.5	720.0	722.1	775.2	819.9	828.3
52.5°	6803.1	2234.4	768.9	681.8	628.7	656.3	662.7	649.9	698.8	743.4	751.9
55°	6174.4	1852.1	609.6	554.4	505.5	565.0	582.0	565.0	579.8	609.6	611.7
57.5°	4347.8	1047.1	467.3	458.8	418.4	484.3	511.9	486.4	460.9	480.0	484.3
60°	2015.6	548.0	359.0	359.0	348.3	416.3	463.0	426.9	378.1	386.6	392.9
62.5°	630.8	346.2	263.4	248.5	284.6	354.7	392.9	356.8	299.5	299.5	308.0
65°	356.8	297.4	208.1	191.2	231.5	284.6	308.0	269.7	218.8	214.5	214.5
67.5°	331.3	282.5	184.8	155.0	163.5	182.7	191.2	165.7	150.8	148.7	150.8
70°	274.0	235.8	148.7	106.2	99.8	97.7	102.0	95.6	91.3	93.5	99.8
72.5°	169.9	142.3	93.5	63.7	55.2	53.1	53.1	53.1	51.0	51.0	51.0
75°	61.6	53.1	42.5	31.9	27.6	25.5	25.5	27.6	25.5	23.4	21.2
77.5°	19.1	17.0	17.0	17.0	14.9	12.7	10.6	10.6	8.5	6.4	6.4
80°	10.6	10.6	10.6	10.6	8.5	8.5	6.4	4.2	2.1	2.1	0.0
82.5°	10.6	10.6	10.6	8.5	8.5	8.5	6.4	4.2	2.1	0.0	0.0
85°	8.5	8.5	8.5	8.5	8.5	8.5	6.4	4.2	2.1	0.0	0.0
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.4	4.2	2.1	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)