

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: P639177

Luminaire Tested: GWS-SA5B-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639177  
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-SA5B-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**

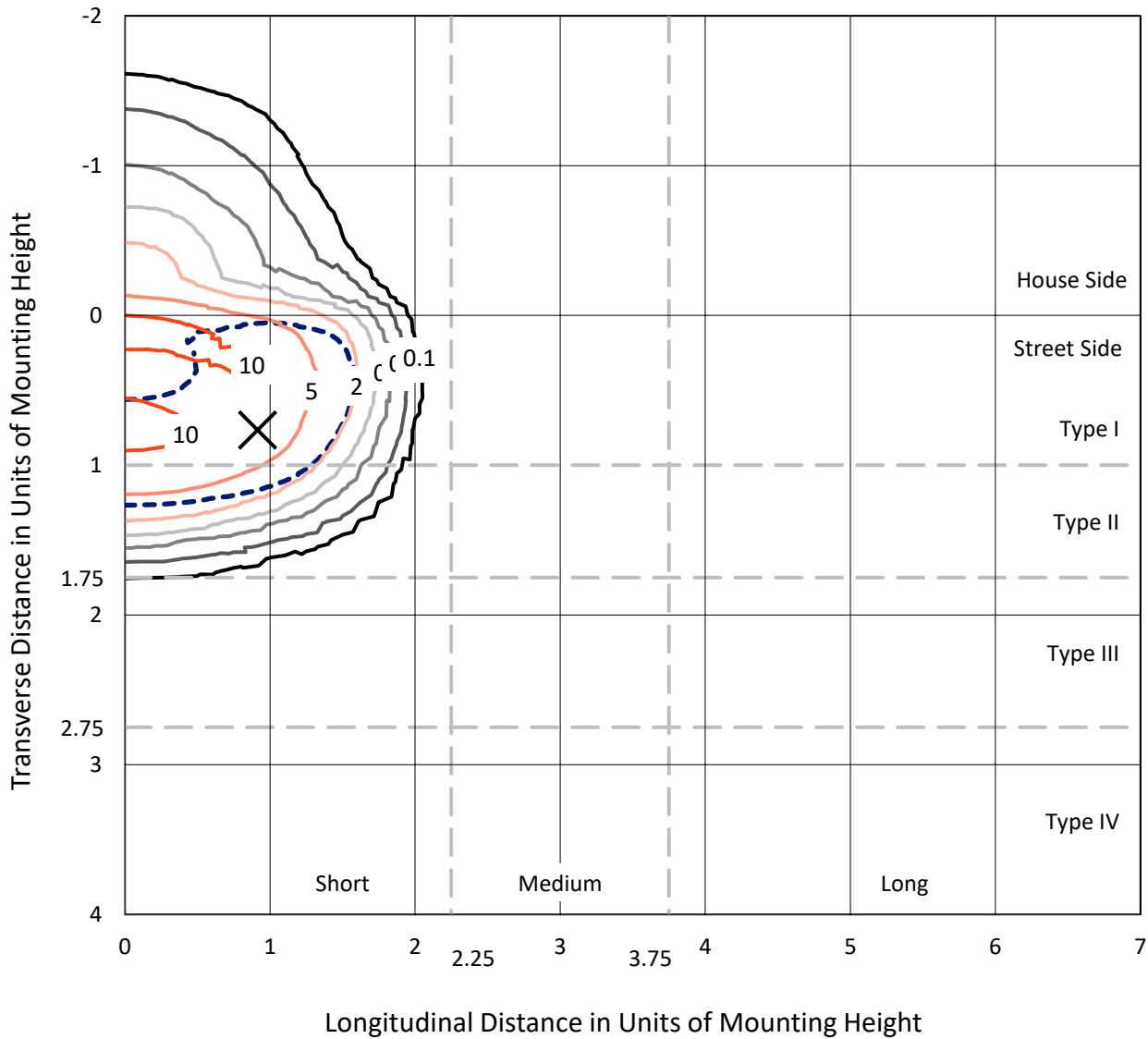
Lumens per Lamp: N/A  
Luminaire Lumens: 13189.4 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

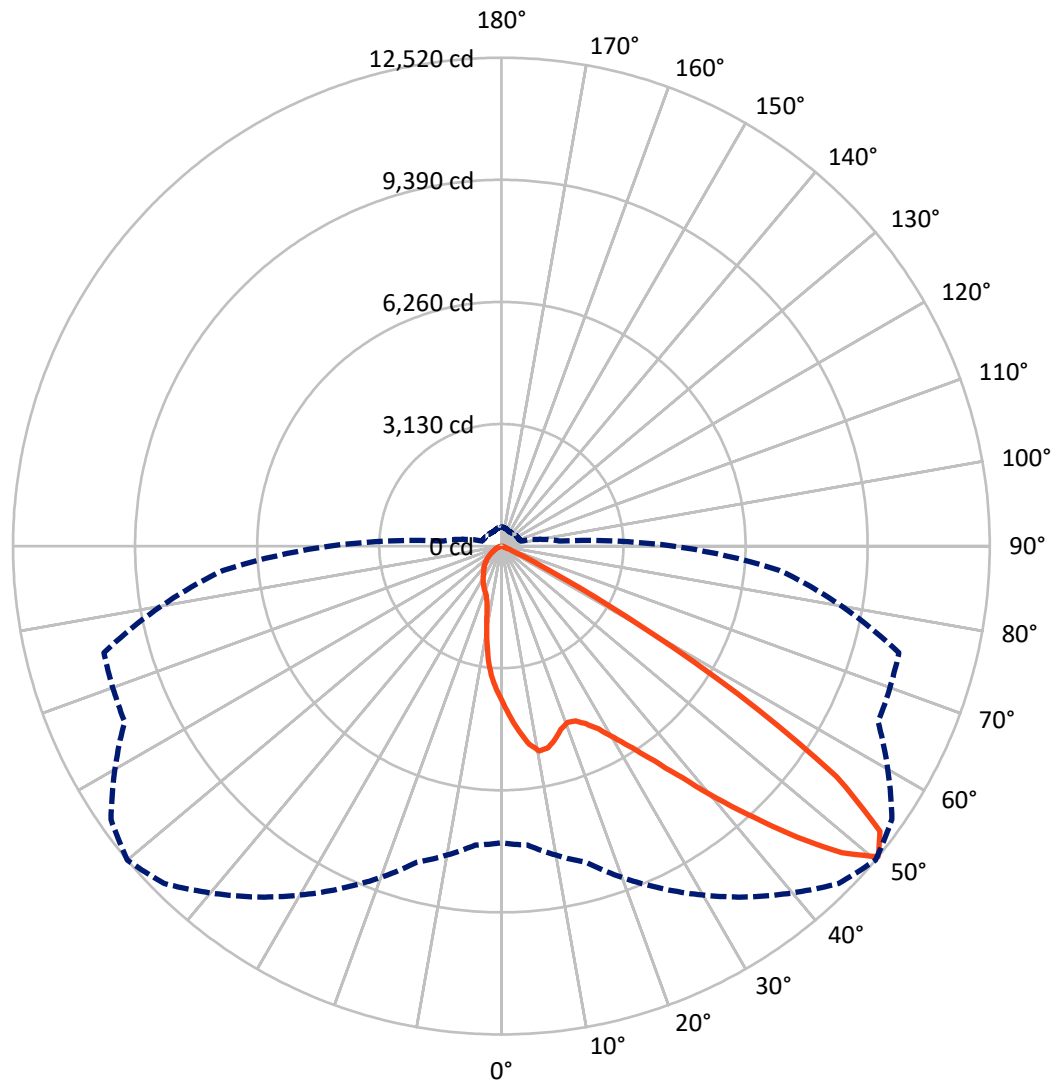
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.8 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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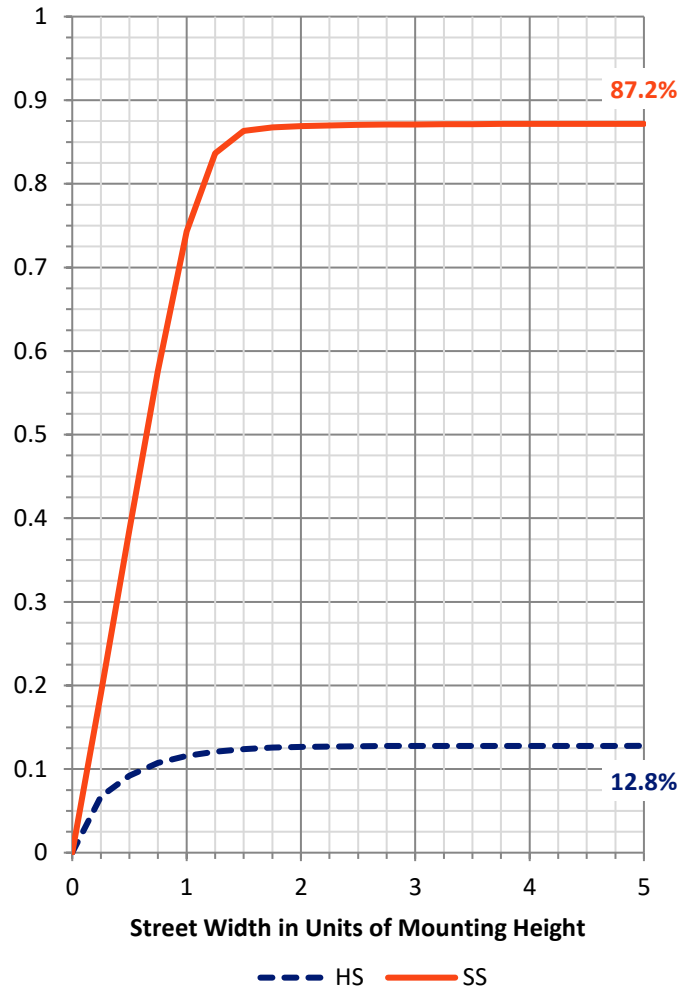
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1694.6	0.0	1694.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	11494.8	0.0	11494.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	13189.4	0.0	13189.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.7	2.8
10°-20°	956.4	7.3
20°-30°	1578.4	12.0
30°-40°	2604.6	19.7
40°-50°	4121.1	31.2
50°-60°	3120.2	23.7
60°-70°	390.5	3.0
70°-80°	44.2	0.3
80°-90°	3.4	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°	13189.4	100.0
0°-180°	13189.4	100.0

**Coefficient of Utilization**



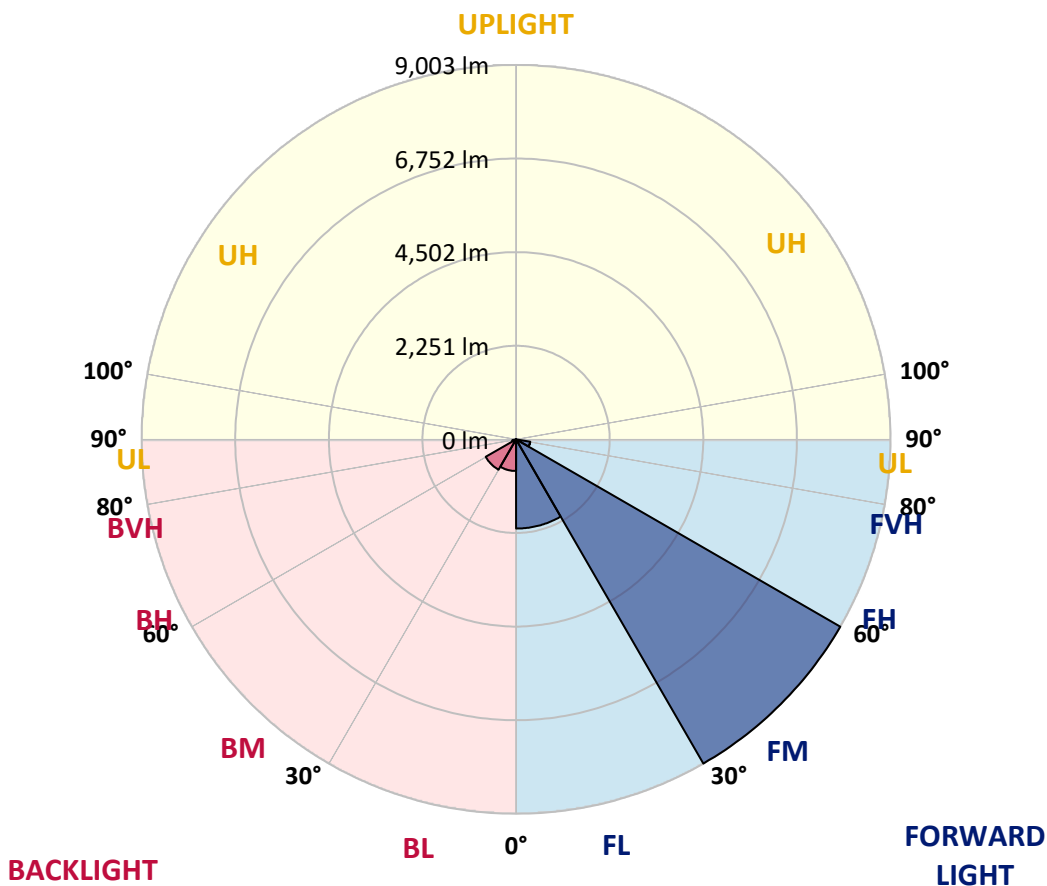
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.8	16.3			
FM (30°-60°)	9003.2	68.3			
FH (60°-80°)	345.3	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	760.6	5.8	B2/1000		
BM (30°-60°)	842.8	6.4	B1/1000		
BH (60°-80°)	89.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4553.3	4589.7	4579.6	4531.9	4480.4	4444.0	4387.5	4370.0	4241.9	4152.8	4058.6
5°	5103.1	5114.4	5101.9	5044.1	4953.7	4867.1	4774.2	4720.2	4505.5	4312.2	4115.1
7.5°	5234.9	5221.1	5245.0	5273.8	5261.3	5223.6	5125.7	5066.7	4810.6	4495.5	4196.7
10°	4823.2	4791.8	4880.9	5030.3	5187.2	5364.2	5339.1	5344.1	5108.1	4726.5	4303.4
12.5°	4277.1	4264.5	4331.0	4504.3	4811.9	5213.6	5310.2	5472.2	5380.5	4976.3	4425.2
15°	4037.3	4043.6	4083.7	4193.0	4413.9	4913.5	5145.8	5438.3	5624.1	5218.6	4559.5
17.5°	4073.7	4096.3	4095.0	4131.4	4265.8	4666.2	4937.4	5331.6	5812.4	5497.3	4713.9
20°	4321.0	4343.6	4309.7	4282.1	4327.3	4603.5	4828.2	5223.6	5939.2	5778.5	4877.1
22.5°	4691.3	4717.7	4637.4	4558.3	4529.4	4706.4	4869.6	5179.7	6035.9	6035.9	5022.8
25°	5139.5	5175.9	5051.6	4911.0	4830.7	4923.6	5046.6	5278.9	6135.0	6266.8	5121.9
27.5°	5640.4	5641.7	5535.0	5376.8	5226.1	5237.4	5311.5	5502.3	6244.2	6515.4	5199.8
30°	6204.1	6207.8	6066.0	5876.4	5686.9	5635.4	5698.2	5842.5	6471.5	6828.0	5307.7
32.5°	6932.2	6949.8	6746.4	6467.7	6221.6	6125.0	6161.4	6313.3	6833.0	7219.7	5469.7
35°	7916.4	7935.2	7635.2	7267.4	6875.7	6730.1	6766.5	6919.6	7356.5	7775.8	5728.3
37.5°	8888.1	8913.2	8609.4	8266.7	7729.4	7488.3	7526.0	7671.6	8142.4	8544.1	6142.6
40°	9559.7	9593.6	9499.4	9268.4	8770.1	8453.7	8498.9	8551.6	9007.3	9463.0	6679.9
42.5°	9913.7	9961.4	10001.6	10119.6	9857.2	9592.3	9515.8	9519.5	9887.3	10399.5	7238.5
45°	9935.1	9981.5	10187.4	10643.1	10842.7	10787.5	10648.1	10554.0	10559.0	11023.5	7587.5
47.5°	9244.6	9331.2	9716.6	10609.2	11359.9	11818.1	11747.8	11524.4	10841.4	11064.9	7549.8
50°	7608.8	7694.2	8394.7	9679.0	10983.3	12229.9	12519.9	12219.8	10656.9	10548.9	7161.9
52.5°	5526.2	5535.0	5989.4	7489.6	9456.8	11470.4	12153.3	12124.4	10375.7	9923.8	6632.2
55°	2625.0	2593.6	3104.5	4226.9	6540.5	9277.2	10428.4	10754.8	9976.5	9471.8	6221.6
57.5°	764.5	779.6	1006.8	1649.6	3271.5	5929.1	7141.8	7749.4	8188.8	7787.1	4825.7
60°	342.7	344.0	382.9	502.2	1089.7	2758.1	3692.1	4444.0	4896.0	4536.9	2394.0
62.5°	248.6	249.8	264.9	283.7	370.3	934.0	1384.7	1845.4	1879.3	1230.3	606.3
65°	207.1	207.1	209.6	209.6	222.2	333.9	420.6	542.3	457.0	339.0	237.3
67.5°	167.0	168.2	170.7	170.7	167.0	167.0	180.8	198.3	212.2	262.4	218.4
70°	130.6	129.3	129.3	130.6	126.8	108.0	116.8	133.1	145.6	204.6	189.6
72.5°	101.7	102.9	101.7	96.7	87.9	64.0	69.0	86.6	92.9	128.0	128.0
75°	76.6	77.8	72.8	55.2	36.4	20.1	26.4	42.7	54.0	62.8	46.4
77.5°	10.0	10.0	7.5	7.5	6.3	7.5	7.5	10.0	15.1	15.1	11.3
80°	1.3	1.3	1.3	2.5	3.8	5.0	5.0	5.0	5.0	6.3	6.3
82.5°	1.3	1.3	1.3	1.3	3.8	3.8	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	3.8	5.0	5.0	5.0
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°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4002.1	3929.3	3841.5	3781.2	3695.8	3639.3	3559.0	3505.0	3458.6	3422.2	3442.2
5°	4003.4	3887.9	3708.4	3555.2	3388.3	3235.1	3070.7	2941.3	2824.6	2771.9	2800.7
7.5°	4028.5	3862.8	3587.9	3315.4	2995.3	2679.0	2382.7	2141.7	2022.4	1965.9	1983.5
10°	4077.5	3851.5	3453.5	3001.6	2481.9	2050.0	1762.5	1599.3	1532.8	1497.7	1503.9
12.5°	4122.7	3844.0	3279.0	2588.6	1958.4	1590.6	1441.2	1418.6	1432.4	1433.6	1432.4
15°	4184.2	3830.2	3063.1	2164.3	1566.7	1374.6	1378.4	1411.0	1443.7	1453.7	1451.2
17.5°	4249.4	3808.8	2784.4	1757.5	1329.4	1311.9	1355.8	1399.7	1432.4	1437.4	1438.7
20°	4317.2	3764.9	2466.8	1434.9	1219.0	1264.2	1313.1	1345.8	1369.6	1377.1	1379.7
22.5°	4348.6	3672.0	2100.2	1203.9	1144.9	1205.2	1241.6	1284.3	1291.8	1264.2	1269.2
25°	4332.3	3515.1	1742.5	1048.2	1070.8	1131.1	1185.1	1163.7	1132.3	1112.3	1118.5
27.5°	4280.8	3306.7	1392.2	934.0	991.7	1068.3	1074.6	1050.8	1045.7	1029.4	1034.4
30°	4225.6	3066.9	1119.8	842.4	911.4	991.7	972.9	981.7	983.0	964.1	970.4
32.5°	4191.7	2815.8	891.3	780.8	859.9	875.0	912.7	930.2	931.5	887.6	895.1
35°	4203.0	2568.5	754.5	730.6	812.2	808.5	861.2	871.2	798.4	738.2	744.4
37.5°	4294.6	2340.0	676.6	691.7	729.4	758.2	798.4	731.9	715.6	687.9	691.7
40°	4465.4	2145.4	630.2	667.9	672.9	719.3	657.8	666.6	667.9	650.3	654.1
42.5°	4665.0	1983.5	602.6	654.1	641.5	649.0	587.5	605.1	623.9	616.4	617.6
45°	4765.4	1825.3	578.7	606.3	610.1	538.6	524.7	543.6	567.4	571.2	572.5
47.5°	4676.3	1674.7	553.6	537.3	562.4	490.9	474.5	480.8	508.4	523.5	526.0
50°	4403.9	1501.4	516.0	475.8	462.0	440.6	425.6	426.8	458.2	484.6	489.6
52.5°	4021.0	1320.7	454.4	403.0	371.6	387.9	391.7	384.1	413.0	439.4	444.4
55°	3649.4	1094.7	360.3	327.7	298.8	333.9	344.0	333.9	342.7	360.3	361.5
57.5°	2569.8	618.9	276.2	271.2	247.3	286.2	302.5	287.5	272.4	283.7	286.2
60°	1191.4	323.9	212.2	212.2	205.9	246.1	273.7	252.3	223.5	228.5	232.2
62.5°	372.8	204.6	155.7	146.9	168.2	209.6	232.2	210.9	177.0	177.0	182.0
65°	210.9	175.8	123.0	113.0	136.8	168.2	182.0	159.4	129.3	126.8	126.8
67.5°	195.8	167.0	109.2	91.6	96.7	108.0	113.0	97.9	89.1	87.9	89.1
70°	161.9	139.3	87.9	62.8	59.0	57.7	60.3	56.5	54.0	55.2	59.0
72.5°	100.4	84.1	55.2	37.7	32.6	31.4	31.4	31.4	30.1	30.1	30.1
75°	36.4	31.4	25.1	18.8	16.3	15.1	15.1	16.3	15.1	13.8	12.6
77.5°	11.3	10.0	10.0	10.0	8.8	7.5	6.3	6.3	5.0	3.8	3.8
80°	6.3	6.3	6.3	6.3	5.0	5.0	3.8	2.5	1.3	1.3	0.0
82.5°	6.3	6.3	6.3	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
85°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	1.3	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)