

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531717

Luminaire Tested: **GALN-SA7A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17352 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

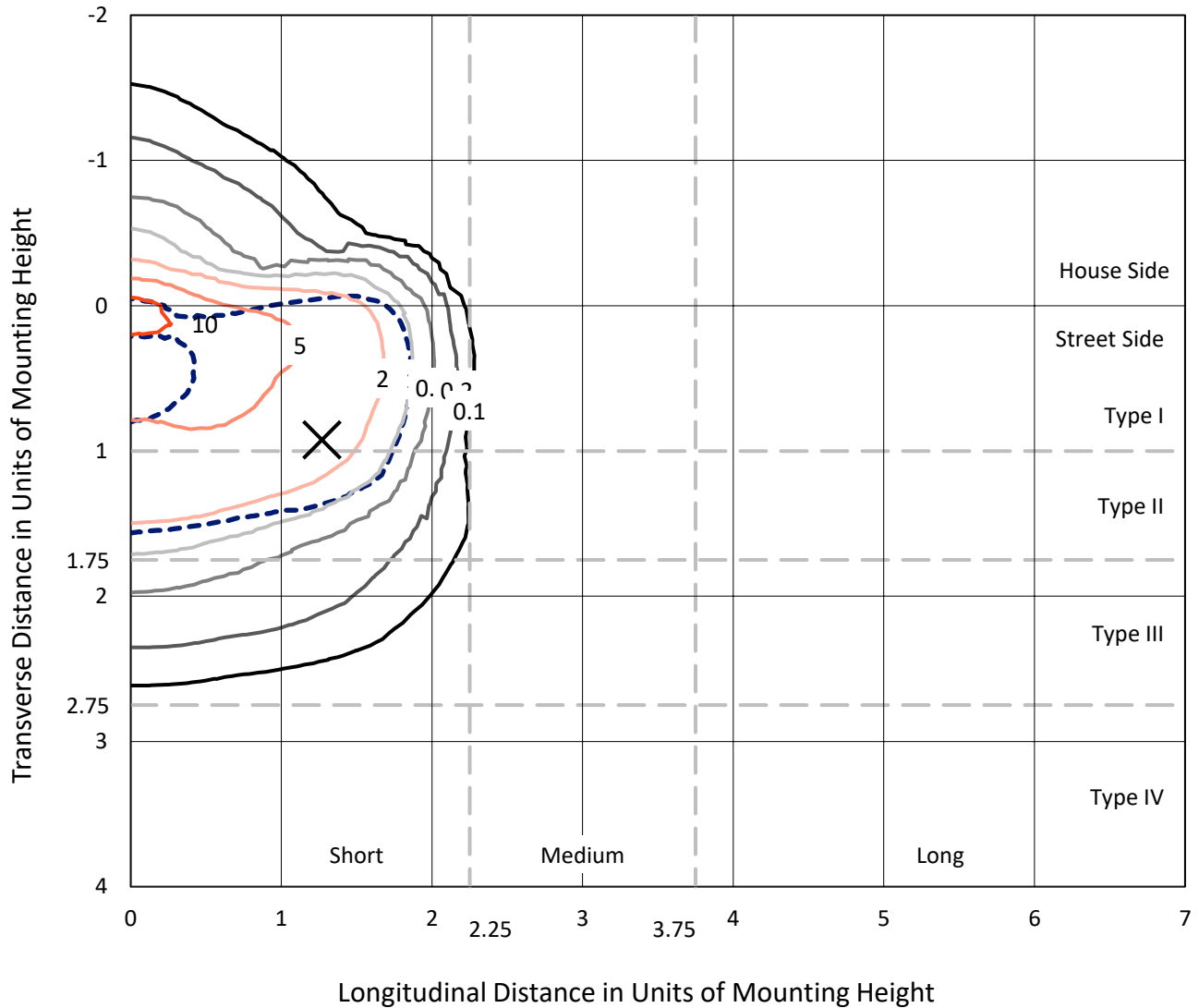
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

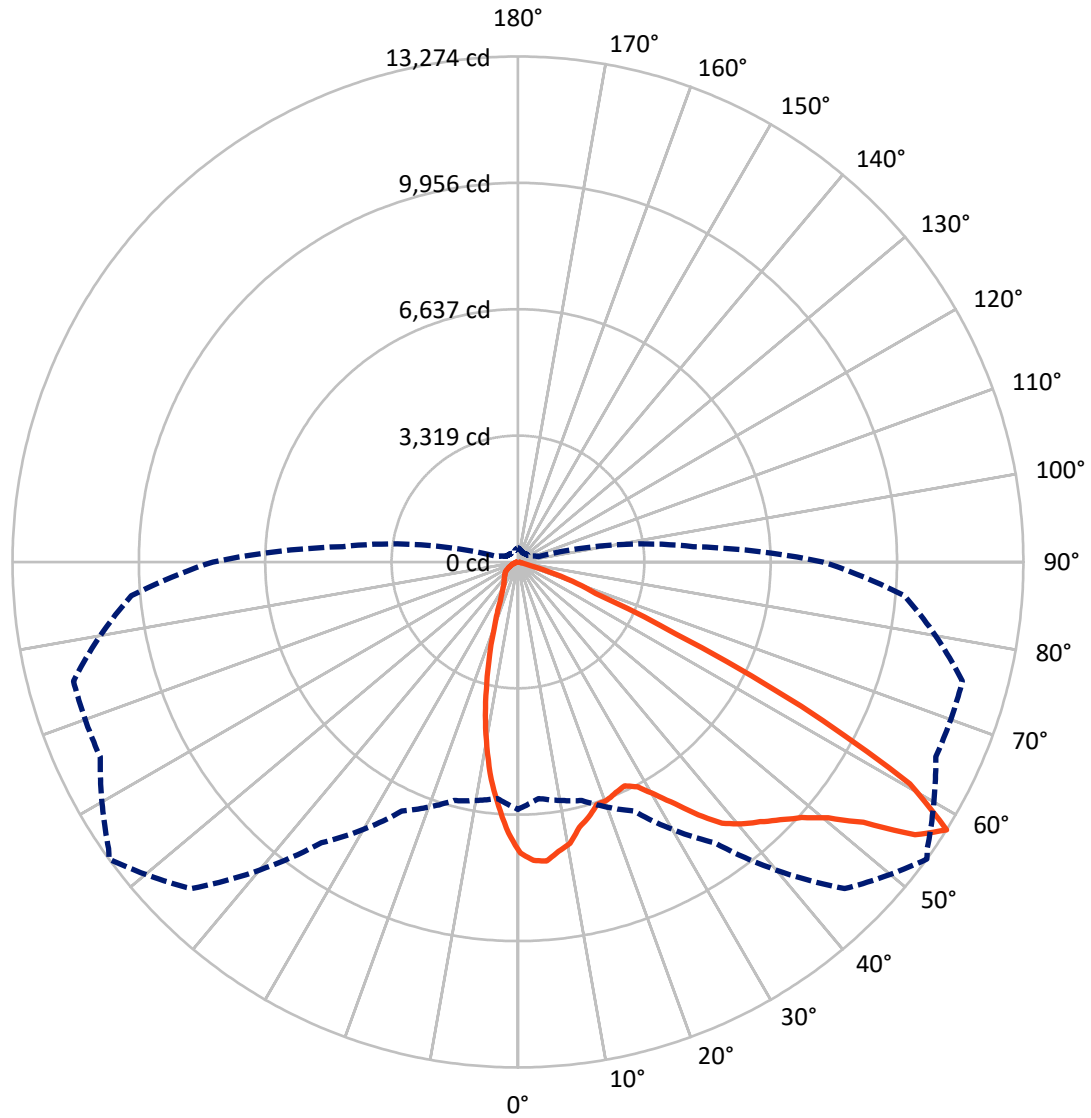
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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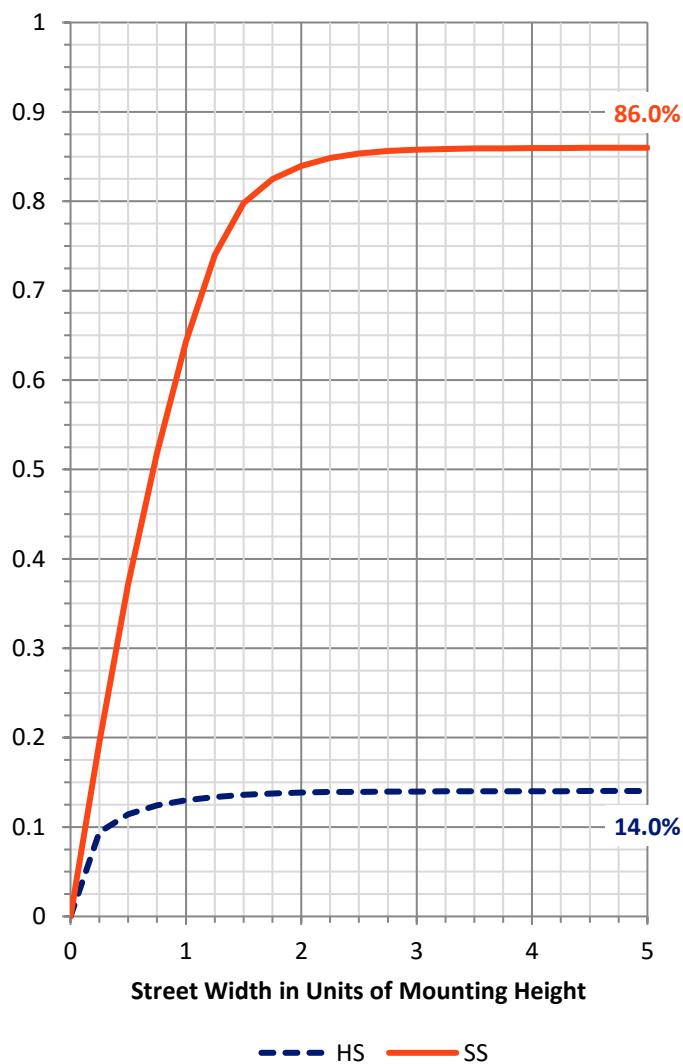
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2452.1	0.0	2452.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	14899.9	0.0	14899.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	17352.0	0.0	17352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.7	3.7
10°-20°	1365.6	7.9
20°-30°	1809.7	10.4
30°-40°	2630.1	15.2
40°-50°	3900.0	22.5
50°-60°	4876.8	28.1
60°-70°	1923.7	11.1
70°-80°	191.5	1.1
80°-90°	14.9	0.1
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°	17352.0	100.0
0°-180°	17352.0	100.0

**Coefficient of Utilization**

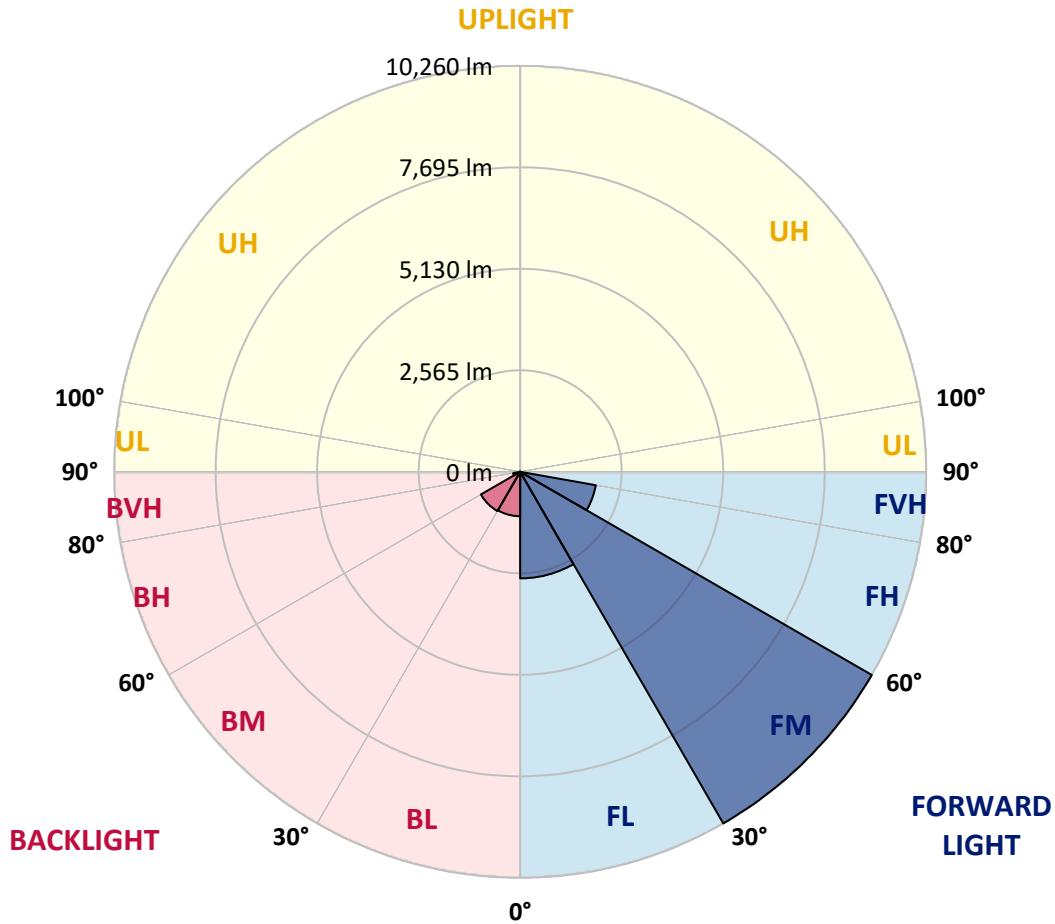


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.5	15.5			
FM (30°-60°)	10260.2	59.1			
FH (60°-80°)	1939.4	11.2			G2/5000
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	1121.5	6.5	B3/2500		
BM (30°-60°)	1146.7	6.6	B2/2500		
BH (60°-80°)	175.8	1.0	B1/500		G1/500
BVH (80°-90°)	8.1	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8
2.5°	8089.1	8005.2	8011.6	7982.6	7943.9	7972.9	7847.1	7876.1	7872.9	7701.9	7588.9
5°	7885.8	7976.1	7882.6	7960.0	7885.8	7966.4	7889.0	7830.9	7737.4	7611.5	7401.8
7.5°	7540.5	7453.4	7479.2	7576.0	7592.2	7772.9	7676.1	7750.3	7711.5	7463.1	7175.9
10°	6846.8	6827.5	6956.5	7085.6	7243.7	7437.3	7511.5	7469.6	7440.5	7346.9	6963.0
12.5°	6314.4	6369.3	6366.1	6579.0	6846.8	6956.5	7150.1	7143.7	7305.0	7130.8	6762.9
15°	5807.9	5836.9	5972.4	6104.7	6401.6	6714.5	6953.3	6985.6	7179.2	7056.6	6608.1
17.5°	5498.1	5456.2	5562.6	5720.7	6024.0	6433.8	6698.4	6775.8	7040.4	7014.6	6430.6
20°	5191.6	5191.6	5278.7	5465.8	5743.3	6204.7	6675.8	6653.2	7040.4	6966.2	6240.2
22.5°	5088.3	5140.0	5162.5	5304.5	5633.6	6030.5	6579.0	6621.0	7095.3	6943.6	6156.3
25°	5230.3	5162.5	5169.0	5281.9	5591.7	5946.6	6508.0	6601.6	7195.3	7056.6	6088.6
27.5°	5252.9	5320.6	5340.0	5417.4	5623.9	5972.4	6685.5	6875.9	7443.7	7321.1	6107.9
30°	5449.7	5517.5	5514.2	5646.5	5788.5	6182.1	7082.4	7121.1	7956.8	7653.5	6227.3
32.5°	5688.5	5759.5	5782.0	5936.9	6049.9	6566.1	7566.4	7666.4	8450.4	8176.2	6540.3
35°	5985.3	5959.5	6062.8	6217.6	6459.6	7127.5	8156.8	8324.6	8982.8	8853.8	6863.0
37.5°	6356.4	6324.1	6424.1	6675.8	7004.9	7792.2	8702.1	8811.8	9370.0	9482.9	7459.9
40°	6617.7	6630.6	6933.9	7272.7	7621.2	8424.6	9047.4	9153.8	9641.0	10070.2	7911.6
42.5°	7053.3	7134.0	7498.6	7911.6	8276.2	8898.9	9328.1	9431.3	9766.9	10541.3	8521.4
45°	7685.7	7650.2	8053.6	8515.0	8918.3	9392.6	9660.4	9624.9	9841.1	11009.1	8905.4
47.5°	8498.8	8505.3	8773.1	9166.7	9586.2	9821.7	10031.5	9905.6	9996.0	11502.8	9418.4
50°	9053.8	9102.2	9318.4	9721.7	9931.4	10292.8	10560.6	10483.2	10454.1	11799.6	9741.1
52.5°	9195.8	9341.0	9457.1	9960.5	10450.9	11022.0	11364.0	11528.6	11012.3	11899.7	10150.8
55°	8124.6	8253.6	8663.4	9353.9	10647.7	12177.1	12648.2	12651.5	11741.6	12344.9	10438.0
57.5°	6495.1	6233.8	6485.4	7217.9	9002.2	12128.7	13274.2	13122.5	12106.2	12083.6	10189.6
60°	4491.4	4426.9	4443.0	4733.4	6230.5	9647.5	11828.7	12025.5	11147.9	10473.5	8066.5
62.5°	3558.9	3504.1	3433.1	3400.8	3868.7	6011.1	8344.0	8621.4	7795.4	6792.0	4781.8
65°	2787.8	2755.5	2765.2	2894.3	2891.0	3410.5	4562.4	4449.5	3562.2	2632.9	1503.6
67.5°	1881.1	1929.5	1968.2	2358.6	2558.7	2374.8	2203.8	2139.2	1158.3	487.2	332.3
70°	1058.3	1064.8	1106.7	1474.6	1942.4	1842.4	1519.7	1519.7	577.6	177.5	190.4
72.5°	577.6	558.2	519.5	635.6	864.7	877.6	677.6	590.5	171.0	116.2	106.5
75°	280.7	277.5	238.8	196.8	187.1	154.9	119.4	109.7	77.4	74.2	64.5
77.5°	58.1	54.9	29.0	29.0	32.3	35.5	45.2	45.2	54.9	54.9	45.2
80°	0.0	0.0	3.2	12.9	22.6	32.3	38.7	38.7	45.2	45.2	35.5
82.5°	0.0	0.0	3.2	9.7	19.4	29.0	35.5	38.7	45.2	48.4	38.7
85°	0.0	0.0	0.0	6.5	16.1	22.6	19.4	19.4	16.1	12.9	6.5
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°	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8	7643.8
2.5°	7530.9	7524.4	7376.0	7292.1	7140.4	7008.2	6901.7	6824.2	6824.2	6775.8	6730.7
5°	7317.9	7263.1	6946.8	6743.6	6456.4	6243.4	6098.3	5985.3	5807.9	5856.3	5665.9
7.5°	7053.3	6914.6	6495.1	6185.4	5788.5	5485.2	5175.4	4901.2	4636.6	4517.2	4581.8
10°	6769.4	6527.4	5962.7	5472.3	4978.6	4423.7	4062.3	3623.5	3352.4	3336.3	3265.3
12.5°	6469.3	6195.1	5507.8	4830.2	4181.7	3513.8	2962.0	2552.2	2368.3	2165.0	2203.8
15°	6243.4	5836.9	5001.2	4184.9	3323.4	2649.0	2094.1	1777.9	1603.6	1555.2	1539.1
17.5°	5998.2	5562.6	4485.0	3497.6	2607.1	1906.9	1506.8	1355.2	1287.4	1287.4	1277.7
20°	5743.3	5252.9	3971.9	2858.8	1955.3	1422.9	1206.7	1158.3	1155.1	1151.9	1151.9
22.5°	5575.5	4898.0	3507.3	2271.5	1474.6	1139.0	1048.6	1029.3	1042.2	1080.9	1080.9
25°	5398.1	4555.9	2994.3	1752.0	1142.2	977.7	926.0	938.9	971.2	1006.7	993.8
27.5°	5217.4	4333.3	2510.3	1374.5	935.7	855.0	835.7	864.7	900.2	932.5	922.8
30°	5175.4	4094.5	2052.1	1042.2	803.4	745.3	758.2	784.1	819.6	832.5	845.4
32.5°	5240.0	3907.4	1681.1	855.0	700.2	684.0	684.0	696.9	719.5	748.6	738.9
35°	5423.9	3800.9	1329.4	742.1	642.1	626.0	622.7	635.6	648.5	658.2	648.5
37.5°	5704.6	3717.0	1087.4	658.2	603.4	577.6	571.1	567.9	580.8	584.0	590.5
40°	6062.8	3762.2	922.8	606.6	564.7	535.6	516.3	516.3	516.3	525.9	529.2
42.5°	6450.0	3823.5	797.0	577.6	529.2	493.7	474.3	467.9	474.3	487.2	484.0
45°	6856.5	3942.9	716.3	532.4	496.9	451.7	425.9	419.5	435.6	461.4	458.2
47.5°	7237.2	4113.9	655.0	503.3	464.6	422.7	390.4	384.0	413.0	448.5	451.7
50°	7618.0	4410.7	632.4	480.8	442.0	393.6	364.6	358.2	390.4	435.6	445.3
52.5°	8056.8	4730.2	616.3	451.7	416.2	371.1	338.8	332.3	367.8	425.9	429.1
55°	8344.0	5001.2	603.4	400.1	367.8	335.6	309.8	306.5	345.2	396.9	409.8
57.5°	8008.4	4623.7	558.2	348.5	313.0	296.8	274.3	274.3	306.5	354.9	364.6
60°	6072.4	3042.7	396.9	280.7	264.6	254.9	245.2	245.2	271.0	306.5	309.8
62.5°	3555.7	1639.1	254.9	225.9	225.9	216.2	200.0	200.0	225.9	245.2	248.4
65°	1055.1	525.9	206.5	193.6	190.4	174.2	158.1	154.9	174.2	183.9	180.7
67.5°	303.3	242.0	171.0	161.3	158.1	132.3	122.6	119.4	122.6	116.2	112.9
70°	180.7	164.6	132.3	135.5	119.4	96.8	87.1	83.9	77.4	67.8	61.3
72.5°	100.0	100.0	96.8	103.3	83.9	64.5	54.9	45.2	35.5	29.0	25.8
75°	61.3	64.5	67.8	71.0	54.9	41.9	35.5	22.6	12.9	6.5	6.5
77.5°	41.9	45.2	48.4	51.6	45.2	38.7	29.0	16.1	3.2	0.0	0.0
80°	32.3	35.5	41.9	45.2	48.4	51.6	38.7	16.1	3.2	0.0	0.0
82.5°	35.5	38.7	48.4	45.2	45.2	45.2	35.5	16.1	3.2	0.0	0.0
85°	6.5	9.7	16.1	16.1	22.6	29.0	22.6	6.5	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)