

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: P531737

Luminaire Tested: **GALN-SA7A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23761 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

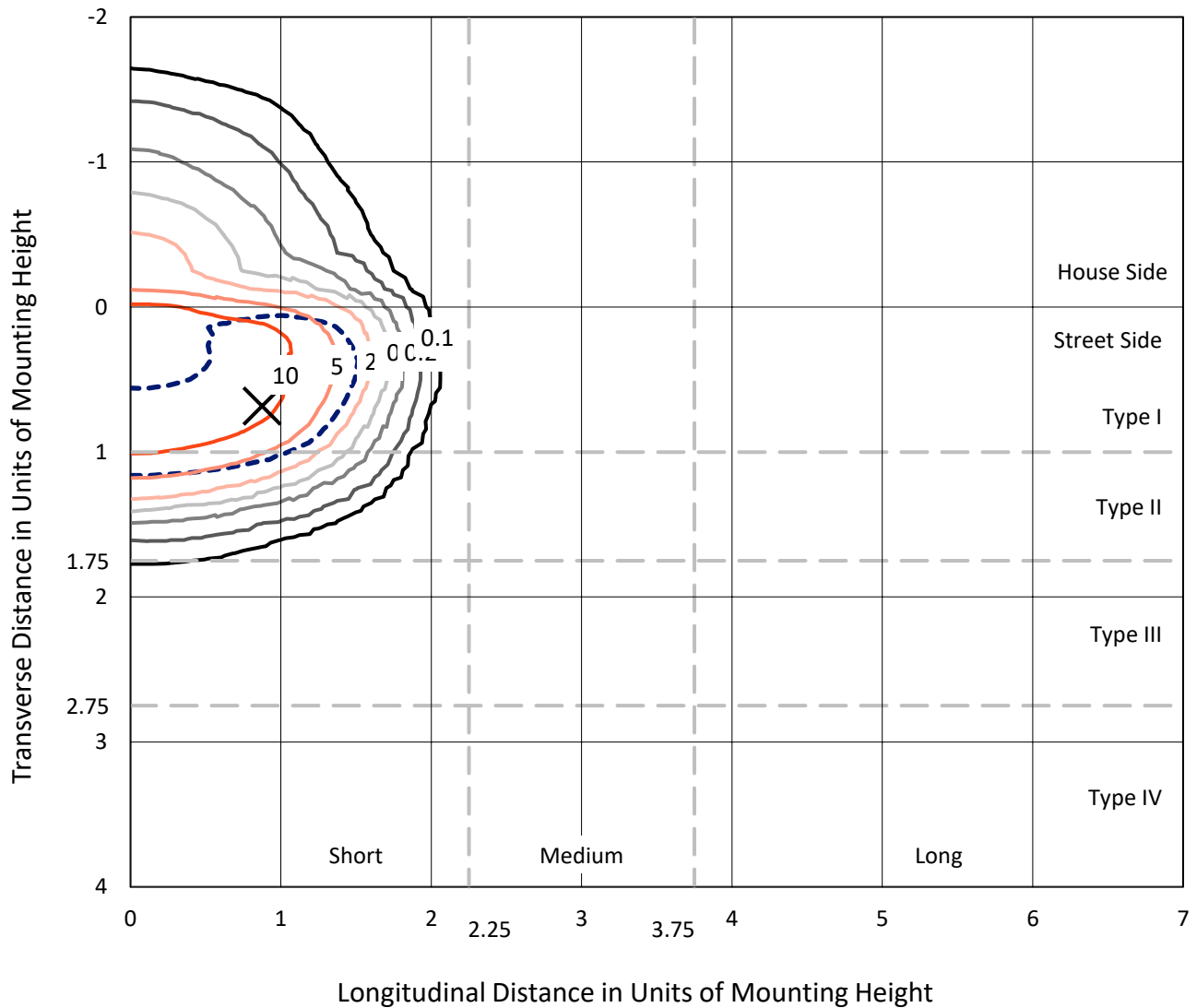
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

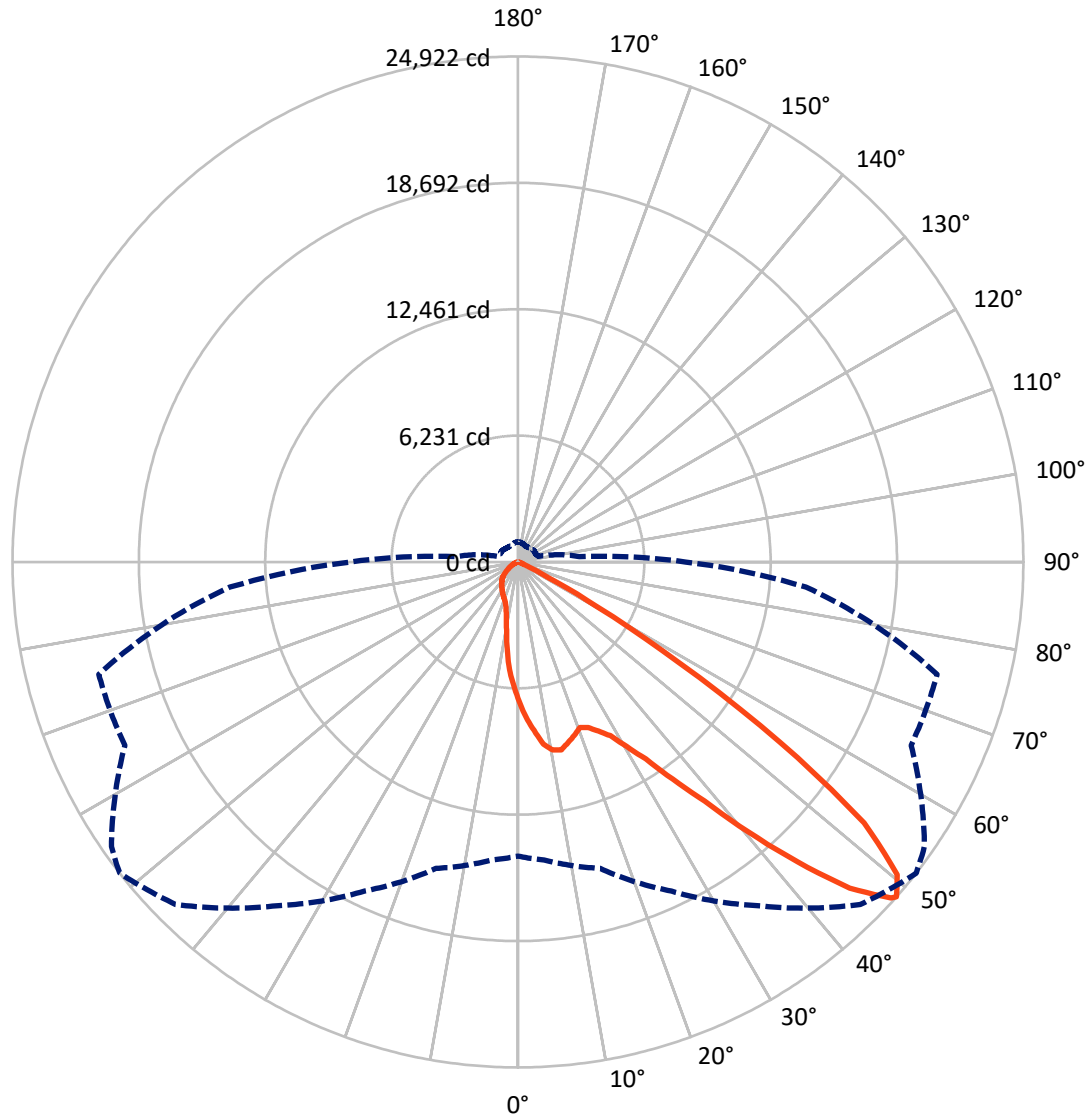
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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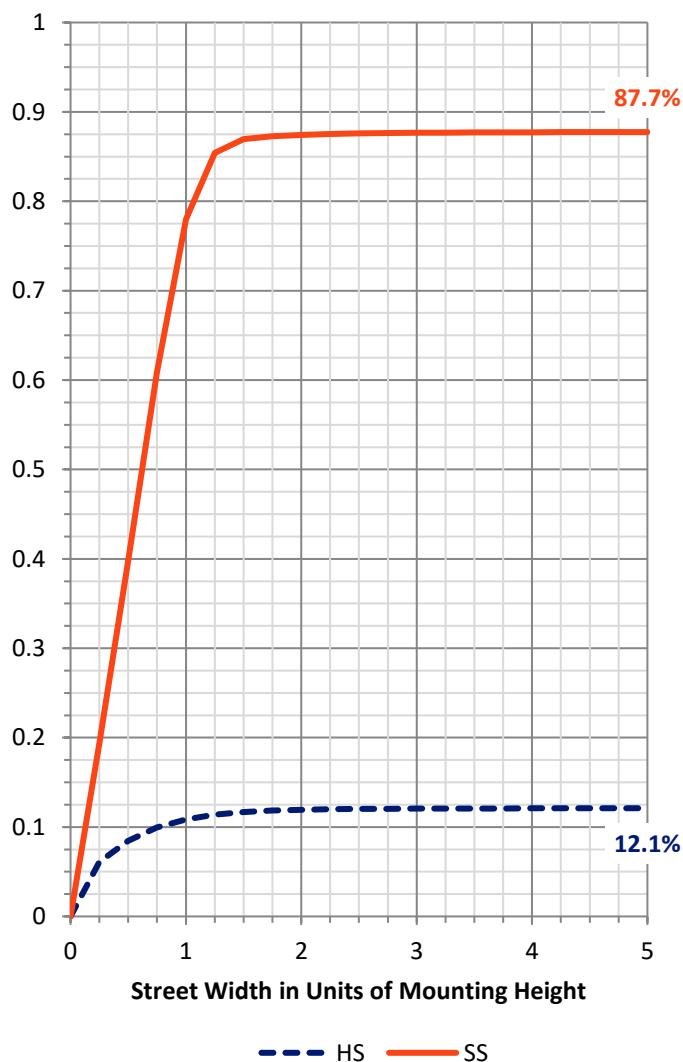
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2893.1	0.0	2893.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	20867.9	0.0	20867.9
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	23761.0	0.0	23761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.1	2.6
10°-20°	1641.3	6.9
20°-30°	2802.4	11.8
30°-40°	5160.6	21.7
40°-50°	8014.4	33.7
50°-60°	4823.3	20.3
60°-70°	557.9	2.3
70°-80°	108.0	0.5
80°-90°	25.0	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°	23761.0	100.0
0°-180°	23761.0	100.0

**Coefficient of Utilization**



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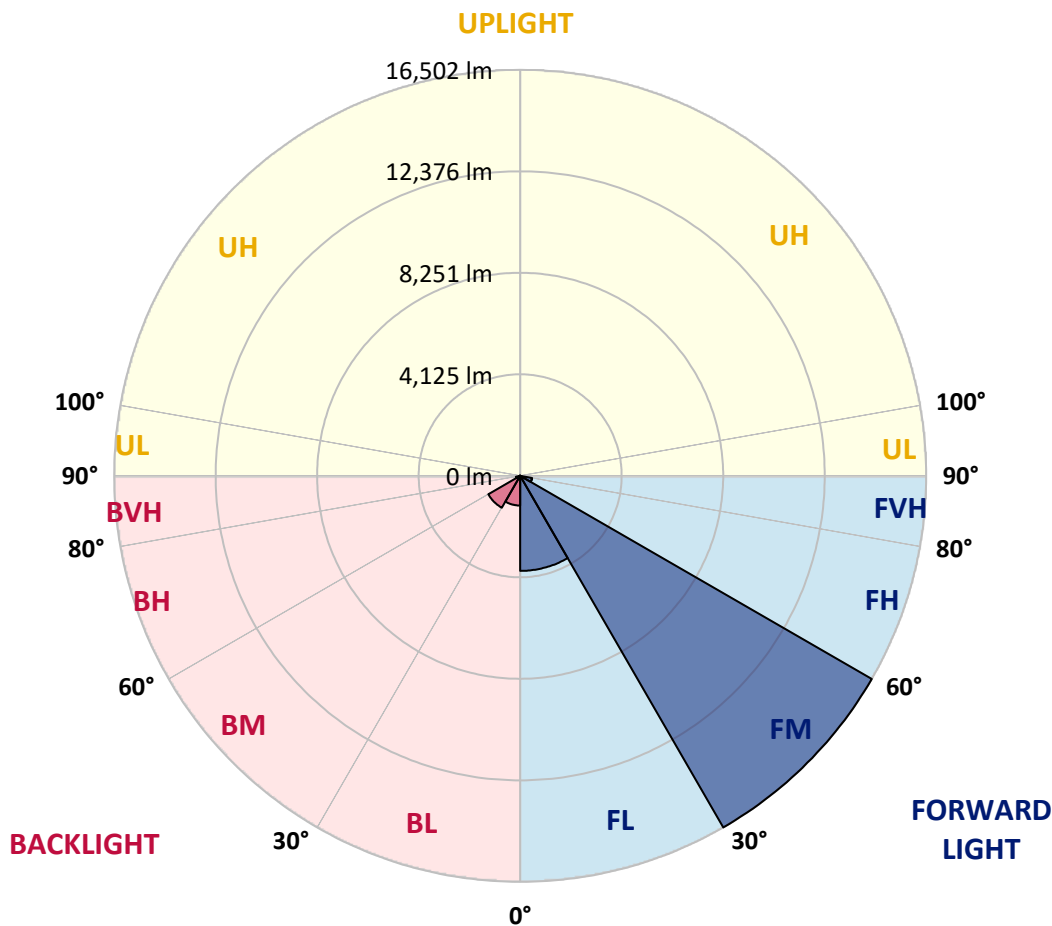
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3863.2	16.3			
FM (30°-60°)	16501.6	69.4			
FH (60°-80°)	491.2	2.1			G0/660
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	1208.5	5.1	B3/2500		
BM (30°-60°)	1496.9	6.3	B2/2500		
BH (60°-80°)	174.6	0.7	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
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°	52°	55°	65°	75°	85°
0°	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8
2.5°	8316.6	8126.1	8143.4	8018.7	7946.0	7828.2	7668.8	7637.7	7464.5	7228.9	6989.9
5°	9064.8	9019.7	9078.6	8898.5	8905.4	8711.4	8337.4	8344.3	7946.0	7561.5	7190.8
7.5°	9113.3	9009.3	9068.2	9227.6	9321.1	9286.4	9075.1	8891.6	8514.0	7949.4	7409.1
10°	8160.7	8358.1	8420.5	8683.7	9057.8	9452.7	9428.5	9438.8	9123.6	8385.9	7596.1
12.5°	7589.2	7457.6	7668.8	7828.2	8392.8	9158.3	9508.1	9584.3	9608.6	8808.4	7783.2
15°	7329.4	7329.4	7364.0	7409.1	7817.8	8524.4	9237.9	9459.6	9982.7	9362.6	8077.6
17.5°	7492.2	7485.3	7533.8	7440.2	7592.6	8136.5	8988.6	9241.4	10401.8	9906.5	8309.6
20°	7987.5	8011.8	7980.6	7710.4	7720.8	8129.5	8711.4	9109.8	10685.8	10377.5	8617.9
22.5°	8676.8	8690.7	8514.0	8219.6	8133.0	8333.9	8870.8	9175.6	10914.4	10942.1	8711.4
25°	9473.5	9418.1	9383.4	8967.8	8704.5	8877.7	9231.0	9407.7	11056.4	11427.1	8978.2
27.5°	10578.4	10467.6	10256.3	9885.7	9691.7	9445.8	9698.6	9989.6	11461.7	12106.0	9269.1
30°	12209.9	12112.9	11700.7	11222.7	10713.5	10471.1	10550.7	10710.1	12192.6	12892.3	9653.6
32.5°	14665.7	14461.4	13865.6	12954.6	12261.8	11593.3	11572.5	11742.3	12847.2	13979.9	10110.8
35°	17370.9	17308.6	16432.3	15493.6	14153.1	13120.9	13138.2	13228.2	14101.1	15407.0	10710.1
37.5°	19168.7	19511.6	18953.9	17945.9	16820.2	15344.6	14970.5	15001.7	15822.6	17097.3	11790.8
40°	20557.6	20266.7	20332.5	20097.0	19328.0	18323.5	17495.6	17332.8	17814.3	18967.8	12864.5
42.5°	19951.5	19965.3	20370.6	20928.3	21118.8	21046.0	20200.9	19892.6	19518.5	20498.8	13886.4
45°	18240.4	18597.1	19123.6	20599.2	21894.7	23110.5	22944.2	22431.6	20696.2	21711.1	14475.2
47.5°	15510.9	15497.0	16359.5	18278.5	21156.9	24004.1	24759.2	24399.0	21531.0	21576.0	14354.0
48°	14502.9	14752.3	15642.5	17900.9	20689.3	23872.5	24922.0	24468.3	21388.9	21395.9	14250.1
50°	10720.5	10675.4	11783.8	14554.9	18479.4	22431.6	24236.2	24589.5	21385.5	20484.9	13522.7
52.5°	5663.3	5857.3	6664.3	9151.4	13065.4	18358.1	21378.6	21929.3	20630.4	18995.5	12476.6
55°	2407.3	2175.3	2795.3	4132.3	7350.2	12265.3	15684.1	16910.3	17443.7	16809.8	10914.4
57.5°	859.0	938.7	1080.7	1555.2	3089.7	6712.8	9352.3	10304.8	12085.2	12334.6	7436.8
60°	550.7	561.1	606.2	713.5	1160.4	2587.5	4437.1	5195.7	6002.8	6196.7	3470.7
62.5°	426.0	429.5	450.3	467.6	550.7	1004.5	1666.1	1974.4	2050.6	1763.1	911.0
65°	356.8	360.2	367.2	367.2	391.4	471.1	581.9	640.8	623.5	616.6	516.1
67.5°	273.6	280.6	294.4	294.4	308.3	287.5	322.1	342.9	387.9	471.1	439.9
70°	214.8	218.2	228.6	235.5	235.5	207.8	232.1	252.9	284.0	349.8	346.4
72.5°	166.3	173.2	180.1	180.1	169.7	142.0	166.3	183.6	204.4	242.5	235.5
75°	128.2	128.2	131.6	107.4	83.1	72.7	100.5	121.2	152.4	159.3	131.6
77.5°	34.6	38.1	34.6	31.2	34.6	52.0	65.8	76.2	97.0	97.0	86.6
80°	0.0	3.5	10.4	20.8	34.6	48.5	58.9	65.8	76.2	83.1	79.7
82.5°	0.0	3.5	10.4	20.8	31.2	38.1	52.0	55.4	62.3	72.7	72.7
85°	0.0	3.5	6.9	13.9	20.8	24.2	24.2	20.8	20.8	17.3	13.9
87.5°	0.0	0.0	3.5	6.9	6.9	10.4	10.4	10.4	10.4	10.4	10.4
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°	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8	6861.8
2.5°	6896.4	6789.0	6626.2	6369.9	6124.0	5964.7	5812.3	5642.5	5549.0	5542.1	5490.1
5°	6979.6	6737.1	6349.1	5909.2	5438.2	5032.9	4624.2	4357.5	4118.5	3986.8	3962.6
7.5°	7024.6	6709.4	6082.4	5344.6	4541.0	3879.5	3422.2	3086.2	2954.6	2857.6	2854.2
10°	7118.1	6660.9	5684.1	4596.5	3602.3	2933.8	2618.6	2466.2	2393.5	2365.8	2324.2
12.5°	7187.4	6570.8	5275.4	3827.5	2847.2	2431.6	2293.0	2258.4	2261.9	2275.7	2258.4
15°	7284.4	6491.2	4724.6	3141.7	2390.0	2189.1	2189.1	2196.0	2244.5	2251.5	2248.0
17.5°	7277.4	6335.3	4156.6	2587.5	2112.9	2085.2	2095.6	2161.4	2192.6	2203.0	2178.7
20°	7360.6	6189.8	3571.2	2209.9	1957.0	1998.6	2067.9	2085.2	2123.3	2130.2	2102.5
22.5°	7336.3	5826.1	3027.4	1912.0	1839.3	1918.9	1988.2	2009.0	1998.6	1977.8	1974.4
25°	7291.3	5514.4	2528.6	1714.6	1752.7	1839.3	1905.1	1867.0	1846.2	1849.7	1853.1
27.5°	7211.6	5119.5	2116.4	1576.0	1634.9	1763.1	1759.6	1745.8	1766.5	1749.2	1766.5
30°	7197.8	4724.6	1776.9	1451.3	1548.3	1641.8	1648.8	1673.0	1697.3	1666.1	1697.3
32.5°	7218.6	4291.6	1534.5	1375.1	1496.4	1499.8	1576.0	1600.3	1583.0	1513.7	1520.6
35°	7377.9	3959.1	1357.8	1333.6	1413.2	1416.7	1489.4	1458.3	1382.1	1340.5	1364.7
37.5°	7713.9	3682.0	1274.7	1295.5	1302.4	1347.4	1350.9	1288.5	1295.5	1292.0	1305.9
40°	8143.4	3470.7	1215.8	1260.8	1253.9	1285.1	1160.4	1195.0	1226.2	1236.6	1243.5
42.5°	8437.8	3318.3	1177.7	1205.4	1191.5	1136.1	1066.8	1101.5	1125.7	1163.8	1170.8
45°	8569.4	3197.1	1132.7	1108.4	1108.4	1008.0	980.3	987.2	1042.6	1084.2	1077.2
47.5°	8354.7	3079.3	1053.0	980.3	1004.5	921.4	890.2	890.2	949.1	1001.0	990.6
48°	8271.5	3030.8	1056.5	952.5	969.9	907.5	876.3	869.4	935.2	983.7	983.7
50°	7859.4	2850.7	966.4	876.3	841.7	834.8	814.0	820.9	862.5	907.5	907.5
52.5°	7055.8	2462.8	817.5	751.6	689.3	730.9	741.3	727.4	748.2	789.7	786.3
55°	5888.5	1891.2	654.7	623.5	575.0	620.0	640.8	623.5	602.7	633.9	633.9
57.5°	3772.1	1018.4	523.0	530.0	481.5	526.5	543.8	502.3	464.1	488.4	484.9
60°	1700.7	609.6	429.5	419.1	387.9	439.9	467.6	419.1	367.2	384.5	401.8
62.5°	637.3	433.0	325.6	318.7	311.7	360.2	374.1	336.0	284.0	294.4	297.9
65°	467.6	381.0	259.8	235.5	249.4	284.0	277.1	239.0	204.4	204.4	211.3
67.5°	398.3	332.5	211.3	183.6	183.6	187.0	173.2	152.4	142.0	148.9	155.9
70°	311.7	263.2	166.3	142.0	128.2	114.3	100.5	97.0	86.6	97.0	93.5
72.5°	200.9	176.7	128.2	107.4	97.0	79.7	65.8	62.3	52.0	48.5	48.5
75°	107.4	107.4	100.5	86.6	76.2	62.3	52.0	41.6	27.7	20.8	20.8
77.5°	76.2	83.1	90.1	83.1	69.3	52.0	41.6	27.7	13.9	6.9	6.9
80°	72.7	83.1	90.1	79.7	69.3	52.0	38.1	20.8	10.4	3.5	3.5
82.5°	65.8	76.2	83.1	72.7	62.3	45.0	34.6	20.8	10.4	3.5	3.5
85°	13.9	17.3	20.8	20.8	24.2	31.2	24.2	17.3	6.9	3.5	3.5
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	6.9	6.9	3.5	3.5	3.5
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)