

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: P647100

Luminaire Tested: **GALN-SA8C-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44887 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

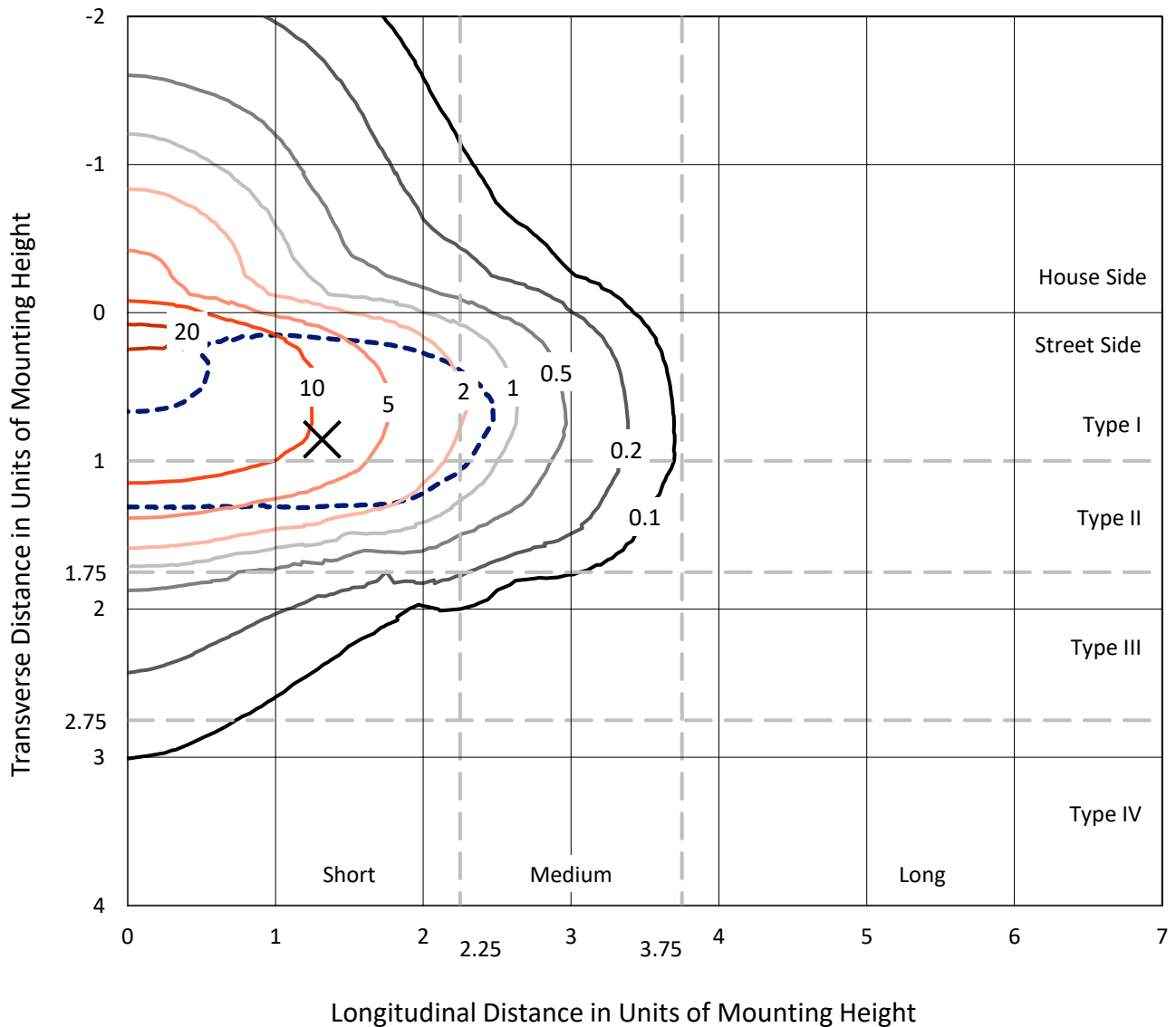
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

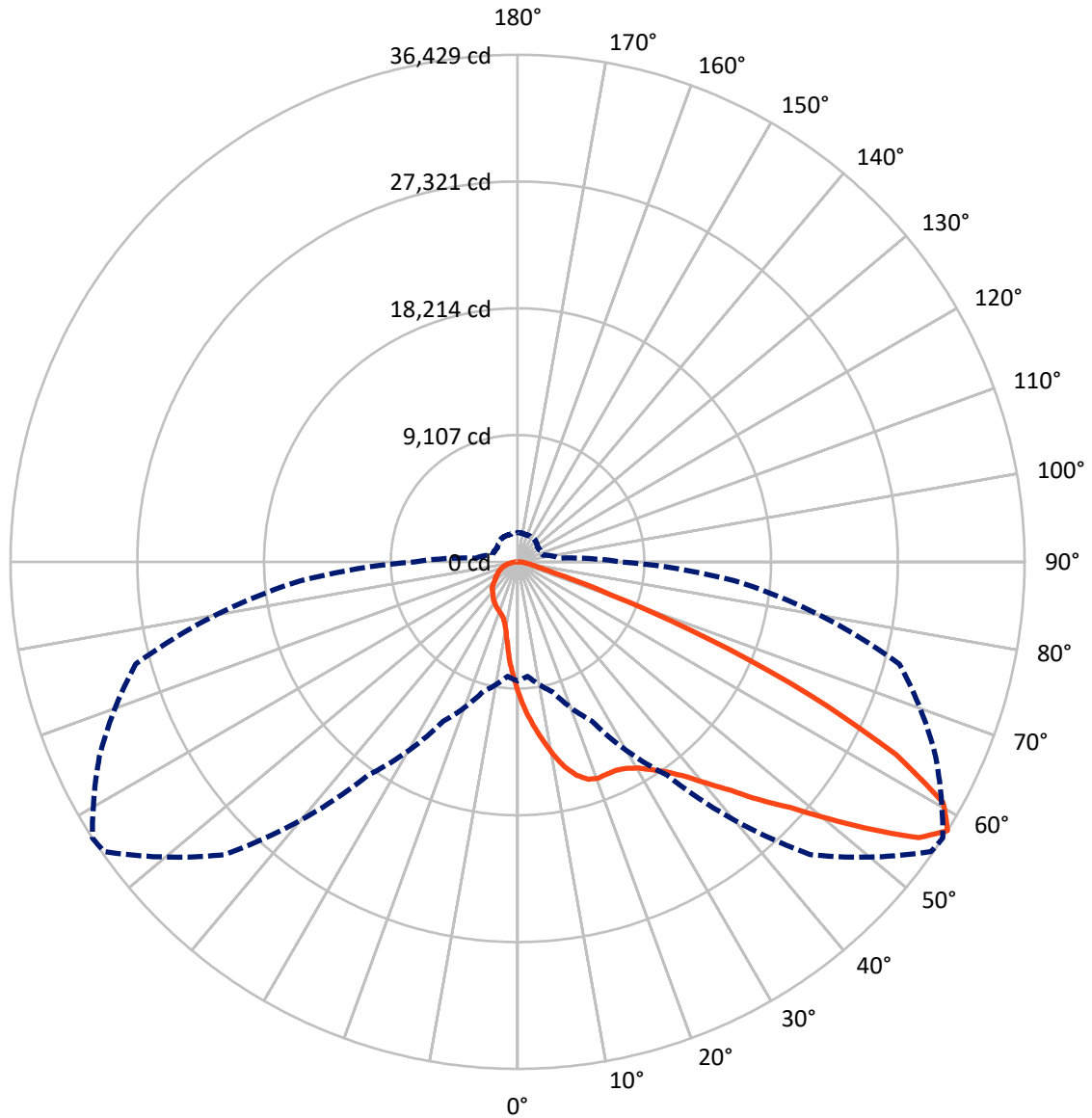
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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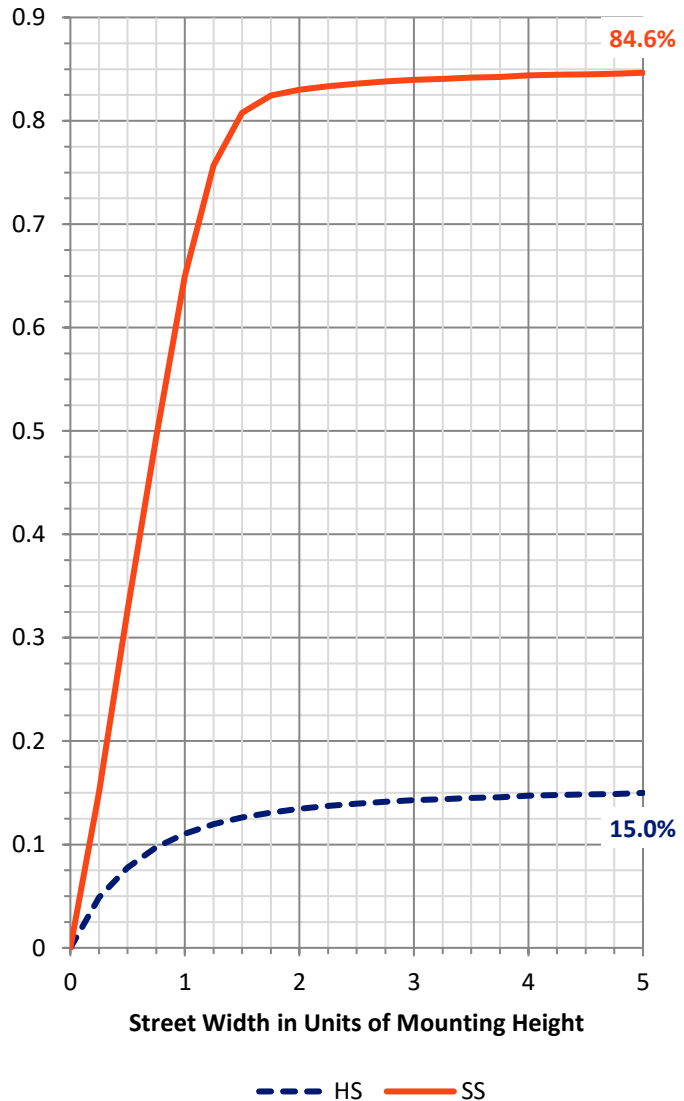
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6826.1	0.0	6826.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	38061.0	0.0	38061.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	44887.0	0.0	44887.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	906.3	2.0
10°-20°	2671.0	6.0
20°-30°	4435.3	9.9
30°-40°	6680.8	14.9
40°-50°	10030.7	22.3
50°-60°	11243.1	25.0
60°-70°	6580.0	14.7
70°-80°	1946.3	4.3
80°-90°	393.4	0.9
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°	44887.0	100.0
0°-180°	44887.0	100.0

**Coefficient of Utilization**



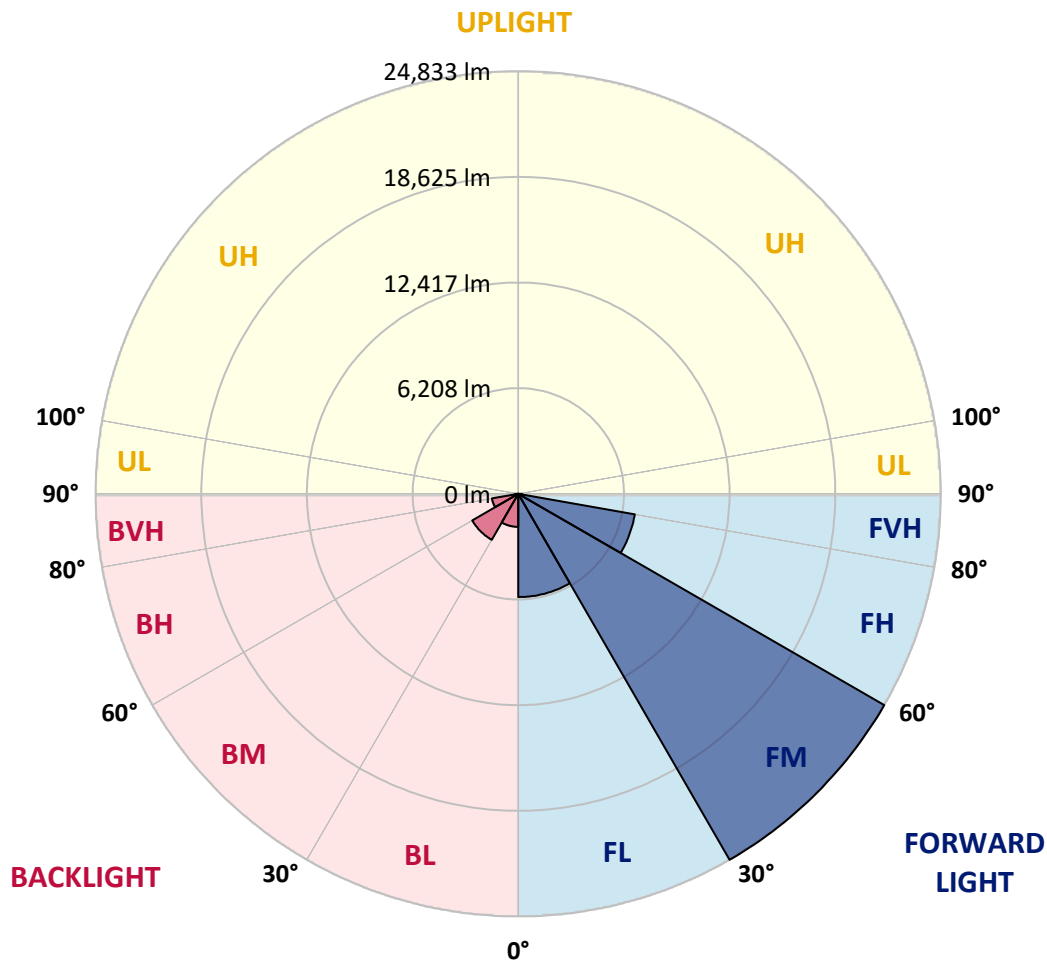
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6067.7	13.5			
FM (30°-60°)	24833.5	55.3			
FH (60°-80°)	6955.7	15.5			G3/7500
FVH (80°-90°)	204.1	0.5			G2/225
BL (0°-30°)	1945.0	4.3	B3/2500		
BM (30°-60°)	3121.2	7.0	B3/5000		
BH (60°-80°)	1570.6	3.5	B3/2500		G3/2500
BVH (80°-90°)	189.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2
2.5°	11717.8	11590.0	11489.3	11400.8	11285.4	10973.3	10661.2	10656.3	10408.2	10024.8	9631.8
5°	13626.9	13454.9	13477.1	13201.8	12926.7	12474.6	11813.6	11779.2	11250.9	10533.5	9803.7
7.5°	14870.2	14872.7	14803.9	14646.6	14349.3	13835.8	13086.4	12916.8	12182.1	11093.7	10000.3
10°	14806.3	14872.7	14988.2	15123.3	15214.2	14961.1	14278.1	14071.7	13115.9	11771.9	10219.0
12.5°	13956.2	14059.4	14224.0	14563.1	15111.0	15528.7	15295.3	15128.2	14197.0	12447.5	10459.8
15°	13425.5	13486.9	13577.8	13806.3	14396.0	15396.1	16000.4	15912.0	15216.7	13211.7	10730.1
17.5°	13263.3	13324.7	13354.2	13494.2	13914.4	14939.0	16278.1	16435.4	16120.9	13914.4	11002.8
20°	13425.5	13454.9	13454.9	13538.5	13867.7	14671.2	16265.8	16582.8	16862.9	14757.2	11258.3
22.5°	13850.6	13862.8	13845.6	13875.1	14120.8	14744.9	16150.3	16543.5	17462.5	15472.2	11457.3
25°	14540.9	14560.6	14447.6	14378.8	14558.2	15069.2	16214.2	16575.4	17931.7	16155.2	11590.0
27.5°	15324.8	15349.4	15211.7	15052.1	15135.5	15469.7	16464.8	16789.2	18283.1	16828.5	11673.6
30°	16285.5	16295.3	16064.3	15872.7	15818.6	16066.8	16892.4	17194.6	18720.4	17622.1	11798.9
32.5°	17268.4	17342.0	17044.7	16774.4	16683.5	16759.7	17523.9	17816.2	19241.4	18474.7	12000.3
35°	18604.9	18617.2	18261.0	17931.7	17632.0	17730.3	18332.2	18543.6	19961.3	19460.1	12285.3
37.5°	20273.4	20386.3	19894.9	19280.7	18912.1	18769.6	19310.2	19541.1	20971.2	20668.9	12715.4
40°	22125.9	22167.7	21747.6	21364.2	20691.0	20278.2	20651.7	20902.3	22216.8	22111.2	13214.1
42.5°	23290.6	23381.6	23413.5	23374.1	22868.0	22175.1	22317.6	22435.5	23691.2	23465.1	13725.2
45°	23683.7	23818.9	24275.9	25244.0	25298.0	24615.0	24283.3	24396.3	25298.0	24831.2	14214.2
47.5°	23032.6	23263.6	24106.4	26091.7	27578.2	27629.8	26629.8	26381.6	26762.5	25963.9	14568.0
50°	21349.5	21398.7	22688.6	25563.4	28647.1	30511.9	29477.5	29015.6	28153.2	26801.8	14811.2
52.5°	18745.0	18801.6	19882.6	23108.8	27988.6	32526.8	32809.3	31983.7	29566.0	27452.9	14971.0
55°	13914.4	14241.2	15430.4	18548.5	24868.1	32337.6	35458.1	34988.7	31273.6	27968.9	15221.6
57.5°	8555.5	8255.8	9666.1	12619.5	18703.3	29737.9	36276.2	36428.6	33153.3	28401.4	15641.8
60°	3936.2	3995.2	4577.5	6508.8	11400.8	23263.6	34168.1	35131.3	34192.7	28386.6	15747.4
62.5°	2712.6	2658.5	2511.2	2857.6	5199.2	14713.0	28860.8	30492.3	32109.0	27504.5	15327.2
65°	2425.1	2371.1	2086.1	1990.2	2388.3	6412.9	20981.0	23040.0	27035.2	25278.4	14280.5
67.5°	2265.5	2191.7	1896.9	1710.2	1705.2	2552.9	12371.4	14850.5	20052.2	21371.7	12373.8
70°	2098.4	2039.4	1747.0	1540.6	1452.2	1604.4	5437.5	7118.2	13020.0	15401.0	9639.1
72.5°	1931.3	1862.4	1599.6	1378.4	1262.9	1201.5	2083.6	2710.1	7356.5	9233.7	5909.3
75°	1688.0	1653.6	1430.0	1248.2	1122.9	970.5	1321.9	1508.6	3518.6	4240.9	2965.7
77.5°	1476.7	1439.9	1270.3	1091.0	1000.0	788.7	938.6	1024.6	1484.1	1719.9	1339.1
80°	1081.1	1118.0	1071.3	963.2	891.9	619.2	631.5	702.7	882.1	975.5	818.2
82.5°	685.5	754.3	825.6	742.0	675.7	489.0	437.4	464.4	602.0	638.8	363.6
85°	287.4	292.4	479.1	452.1	385.8	289.9	262.9	277.7	321.9	336.6	169.5
87.5°	110.6	108.1	169.5	157.2	120.4	83.5	83.5	93.3	127.8	117.9	54.0
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°	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2	9430.2
2.5°	9462.2	9287.7	8941.3	8511.3	8196.8	7843.0	7531.0	7307.3	7223.8	7184.5	7110.7
5°	9454.8	9110.8	8393.4	7641.5	7037.1	6417.9	5894.5	5555.5	5525.9	5299.9	5277.8
7.5°	9457.3	8931.4	7788.9	6683.2	5761.9	5127.9	4695.5	4582.4	4447.3	4412.9	4430.1
10°	9464.7	8703.0	7140.3	5734.8	4842.9	4427.6	4265.5	4221.2	4226.2	4240.9	4243.4
12.5°	9474.5	8481.8	6467.0	5014.9	4326.9	4154.9	4137.7	4177.0	4218.8	4250.8	4258.1
15°	9486.7	8228.8	5811.0	4435.0	4068.9	4054.1	4110.7	4177.0	4236.0	4282.7	4290.1
17.5°	9472.0	7933.9	5260.6	4078.7	3926.4	3997.7	4091.0	4174.6	4228.6	4272.8	4277.8
20°	9437.7	7604.7	4729.9	3828.1	3838.0	3953.4	4054.1	4132.8	4191.8	4213.9	4231.1
22.5°	9304.9	7211.5	4268.0	3634.0	3732.3	3892.0	4012.4	4059.1	3992.8	3946.1	3958.4
25°	9078.9	6700.4	3838.0	3476.8	3636.5	3806.0	3928.9	3815.9	3761.8	3742.1	3752.0
27.5°	8796.3	6140.2	3513.6	3312.2	3513.6	3710.2	3675.8	3656.1	3631.6	3599.6	3607.0
30°	8491.6	5592.3	3238.4	3184.4	3380.9	3494.0	3508.7	3540.6	3513.6	3464.5	3484.1
32.5°	8209.1	5076.3	3029.6	3076.3	3287.6	3270.4	3380.9	3417.8	3292.5	3127.9	3135.2
35°	7968.3	4597.1	2872.4	2970.6	3127.9	3135.2	3245.8	3118.1	2982.9	2904.2	2909.2
37.5°	7786.5	4223.7	2769.2	2879.7	2924.0	3017.3	2958.3	2892.0	2874.8	2820.8	2823.2
40°	7678.3	3896.9	2702.8	2808.5	2801.1	2864.9	2675.7	2742.1	2766.7	2749.5	2751.9
42.5°	7570.3	3665.9	2634.0	2710.1	2707.7	2582.4	2540.6	2597.1	2661.0	2668.4	2663.5
45°	7484.2	3486.6	2562.8	2560.3	2609.4	2412.8	2400.6	2435.0	2525.9	2570.1	2567.6
47.5°	7388.4	3336.7	2454.6	2385.8	2400.6	2307.2	2287.5	2302.3	2412.8	2484.1	2503.7
50°	7268.0	3186.8	2319.5	2226.1	2164.7	2208.9	2213.9	2216.3	2326.8	2408.0	2425.1
52.5°	7172.2	3073.8	2164.7	2095.9	2022.2	2120.4	2157.3	2162.3	2228.6	2294.9	2307.2
55°	7228.7	3009.9	2012.3	1963.2	1896.9	2029.5	2100.8	2110.7	2125.4	2174.5	2181.9
57.5°	7398.3	3024.7	1889.5	1825.6	1776.5	1921.4	2041.8	2049.2	2039.4	2098.4	2108.1
60°	7449.9	3017.3	1798.6	1673.3	1643.8	1805.9	1955.9	1970.6	1968.1	2054.1	2071.3
62.5°	7233.7	2924.0	1707.6	1545.5	1525.8	1688.0	1835.4	1894.4	1906.7	2029.5	2051.7
65°	6725.0	2732.3	1587.3	1410.3	1410.3	1562.7	1719.9	1801.1	1835.4	2000.1	2024.6
67.5°	6054.2	2506.2	1464.4	1294.8	1290.0	1442.3	1597.1	1680.6	1734.7	1958.3	1973.0
70°	5024.7	2201.6	1312.1	1169.6	1169.6	1307.1	1447.2	1548.0	1626.6	1879.7	1879.7
72.5°	3442.4	1830.5	1127.8	1027.1	1029.5	1157.3	1299.8	1412.8	1506.2	1722.4	1727.3
75°	2177.0	1430.0	926.3	874.7	884.6	1005.0	1152.3	1270.3	1457.0	1702.8	1710.2
77.5°	1157.3	1005.0	737.1	724.8	737.1	847.7	1012.3	1174.5	1461.9	1476.7	1452.2
80°	749.4	712.5	582.3	557.7	562.7	683.1	901.8	1115.5	1174.5	1189.2	1135.2
82.5°	407.9	452.1	412.8	388.2	388.2	533.2	769.1	887.0	842.7	700.2	668.3
85°	174.5	211.3	213.8	186.7	179.4	329.3	516.0	484.1	449.7	430.0	425.1
87.5°	49.2	68.8	68.8	51.6	39.3	90.9	103.2	29.5	0.0	2.4	4.9
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)