

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: P652377

Luminaire Tested: **GALN-SA5B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652377  
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-SA5B-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA 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: 17877.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

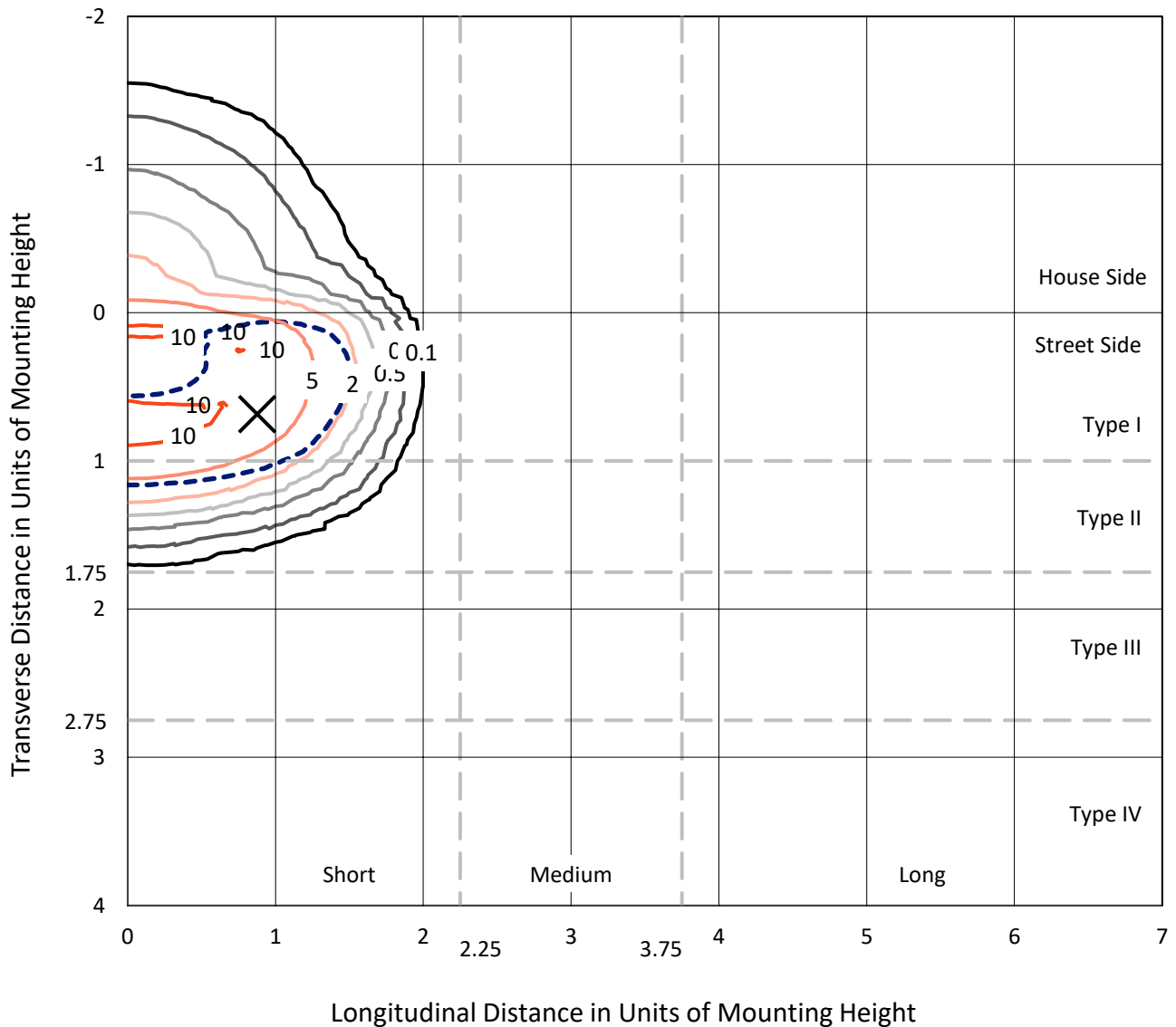
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

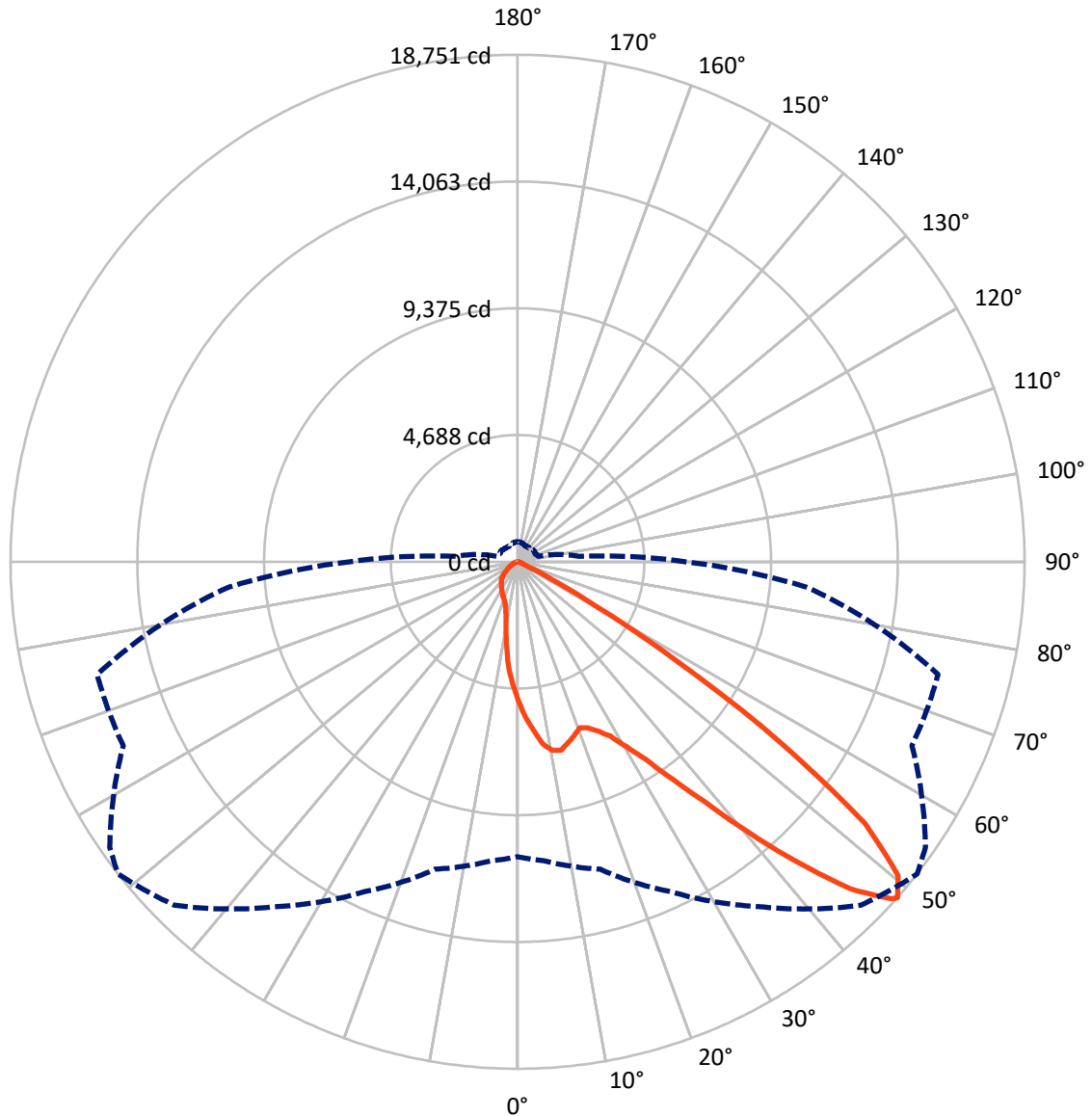
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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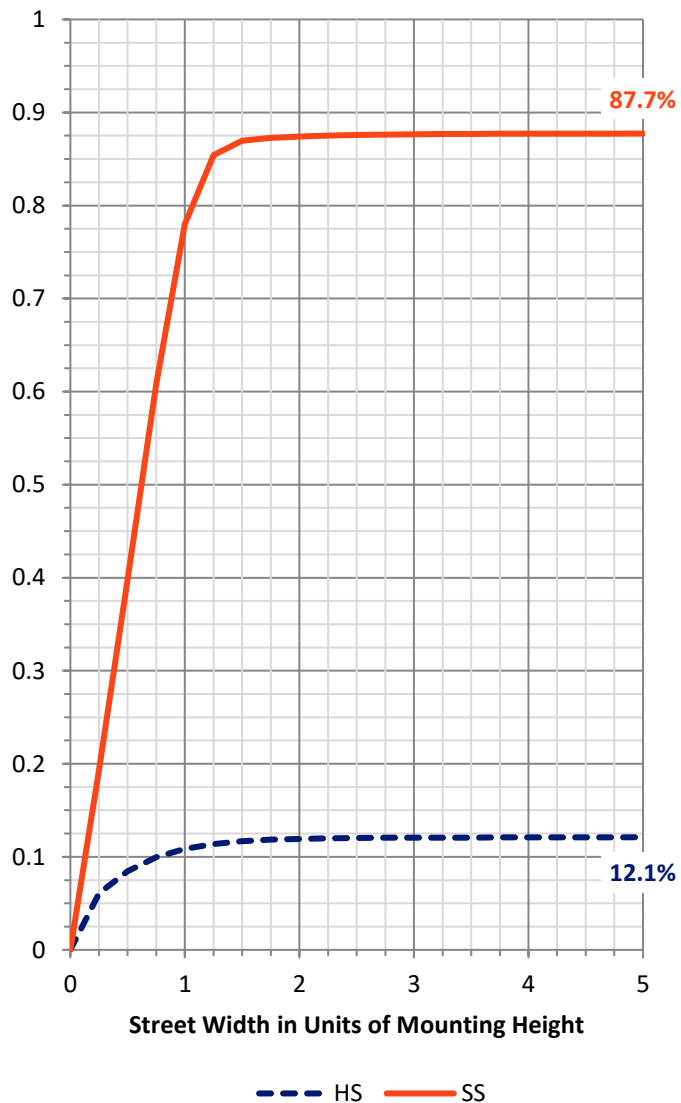
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2176.7	0.0	2176.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	15700.4	0.0	15700.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	17877.1	0.0	17877.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.5	2.6
10°-20°	1234.9	6.9
20°-30°	2108.5	11.8
30°-40°	3882.7	21.7
40°-50°	6029.9	33.7
50°-60°	3628.9	20.3
60°-70°	419.7	2.3
70°-80°	81.3	0.5
80°-90°	18.8	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°	17877.1	100.0
0°-180°	17877.1	100.0

**Coefficient of Utilization**

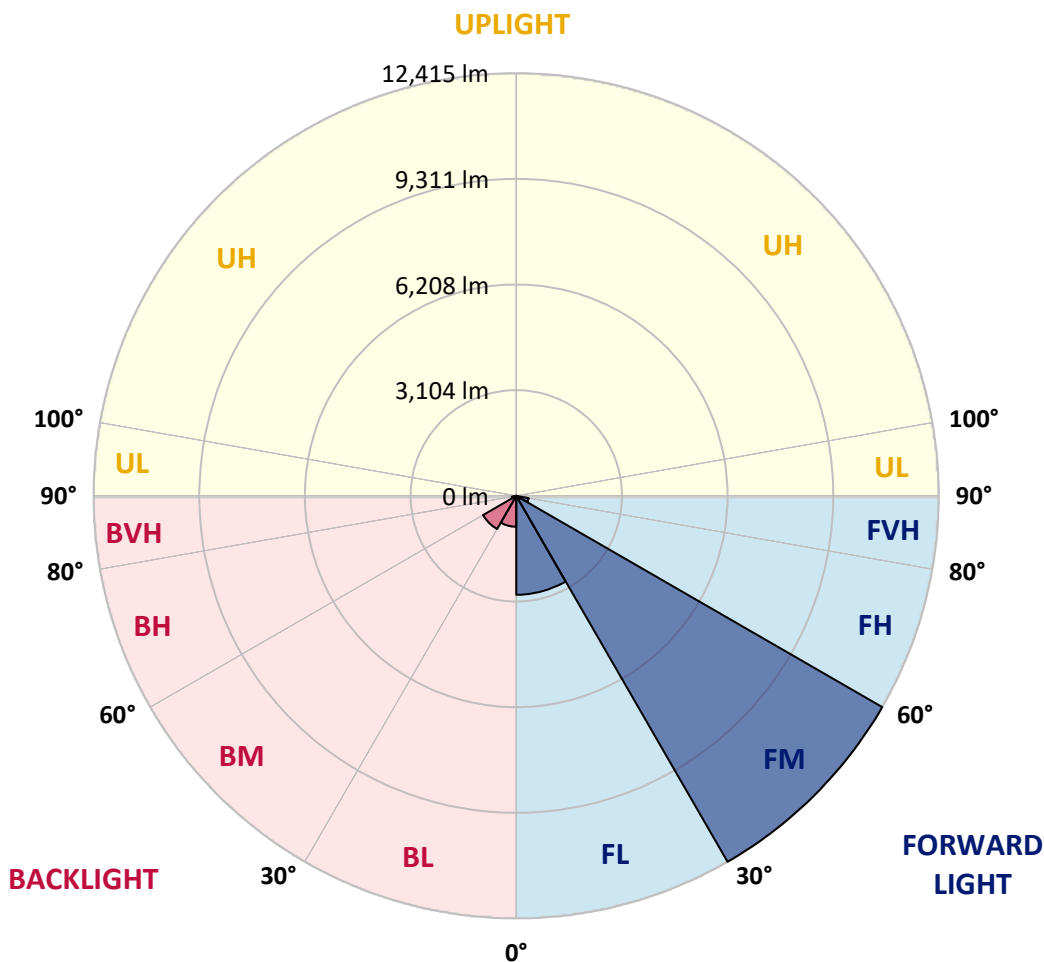


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2906.6	16.3			
FM (30°-60°)	12415.3	69.4			
FH (60°-80°)	369.6	2.1			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	909.3	5.1	B2/1000		
BM (30°-60°)	1126.2	6.3	B2/2500		
BH (60°-80°)	131.4	0.7	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6
2.5°	6257.2	6113.8	6126.9	6033.1	5978.3	5889.7	5769.8	5746.4	5616.1	5438.8	5259.0
5°	6820.1	6786.2	6830.5	6694.9	6700.2	6554.2	6272.8	6278.0	5978.3	5689.0	5410.2
7.5°	6856.6	6778.4	6822.7	6942.5	7012.9	6986.9	6827.9	6689.7	6405.7	5980.9	5574.4
10°	6139.9	6288.4	6335.3	6533.4	6814.9	7112.0	7093.8	7101.6	6864.4	6309.3	5715.1
12.5°	5709.9	5610.9	5769.8	5889.7	6314.5	6890.5	7153.6	7211.0	7229.2	6627.2	5855.8
15°	5514.4	5514.4	5540.5	5574.4	5881.9	6413.6	6950.4	7117.1	7510.7	7044.2	6077.3
17.5°	5636.9	5631.7	5668.2	5597.9	5712.5	6121.6	6762.7	6953.0	7826.0	7453.4	6252.0
20°	6009.6	6027.9	6004.4	5801.1	5809.0	6116.4	6554.2	6854.0	8039.7	7807.8	6483.9
22.5°	6528.2	6538.6	6405.7	6184.2	6119.0	6270.2	6674.2	6903.4	8211.7	8232.5	6554.2
25°	7127.6	7085.9	7059.9	6747.1	6549.0	6679.4	6945.1	7078.1	8318.6	8597.5	6754.9
27.5°	7959.0	7875.5	7716.6	7437.7	7291.8	7106.8	7297.0	7515.9	8623.4	9108.2	6973.8
30°	9186.4	9113.4	8803.3	8443.6	8060.6	7878.2	7938.1	8058.0	9173.4	9699.8	7263.1
32.5°	11034.1	10880.4	10432.1	9746.7	9225.5	8722.5	8706.9	8834.5	9665.9	10518.1	7607.1
35°	13069.4	13022.5	12363.2	11656.9	10648.4	9871.8	9884.8	9952.6	10609.3	11591.8	8058.0
37.5°	14422.0	14680.0	14260.4	13502.0	12655.0	11544.9	11263.4	11286.9	11904.5	12863.5	8871.0
40°	15467.0	15248.1	15297.6	15120.4	14541.9	13786.1	13163.2	13040.8	13403.0	14270.8	9678.9
42.5°	15010.9	15021.4	15326.3	15745.9	15889.2	15834.4	15198.6	14966.7	14685.2	15422.7	10447.7
45°	13723.5	13992.0	14388.1	15498.3	16472.9	17387.7	17262.6	16876.9	15571.3	16334.8	10890.8
47.5°	11670.0	11659.5	12308.5	13752.2	15917.9	18060.1	18628.1	18357.2	16199.3	16233.2	10799.5
48°	10911.6	11099.3	11769.0	13468.2	15566.1	17961.0	18750.7	18409.2	16092.5	16097.7	10721.4
50°	8065.8	8031.9	8865.8	10950.7	13903.4	16876.9	18234.6	18500.5	16089.8	15412.3	10174.1
52.5°	4260.9	4406.8	5014.0	6885.3	9830.1	13812.2	16084.6	16499.0	15521.7	14291.7	9387.1
55°	1811.2	1636.6	2103.1	3109.0	5530.1	9228.1	11800.2	12722.8	13124.1	12647.2	8211.7
57.5°	646.3	706.3	813.1	1170.1	2324.6	5050.5	7036.4	7753.0	9092.6	9280.2	5595.3
60°	414.4	422.2	456.1	536.8	873.0	1946.7	3338.3	3909.1	4516.3	4662.3	2611.3
62.5°	320.5	323.1	338.8	351.8	414.4	755.7	1253.5	1485.5	1542.8	1326.5	685.4
65°	268.4	271.1	276.3	276.3	294.5	354.4	437.8	482.1	469.1	463.9	388.3
67.5°	205.9	211.1	221.5	221.5	231.9	216.3	242.4	258.0	291.9	354.4	330.9
70°	161.6	164.2	172.0	177.2	177.2	156.3	174.6	190.2	213.7	263.2	260.6
72.5°	125.1	130.3	135.5	135.5	127.7	106.8	125.1	138.1	153.7	182.4	177.2
75°	96.5	96.5	99.1	80.8	62.6	54.7	75.6	91.2	114.6	119.8	99.1
77.5°	26.1	28.7	26.1	23.5	26.1	39.1	49.5	57.4	73.0	73.0	65.2
80°	0.0	2.6	7.8	15.6	26.1	36.5	44.3	49.5	57.4	62.6	60.0
82.5°	0.0	2.6	7.8	15.6	23.5	28.7	39.1	41.7	46.9	54.7	54.7
85°	0.0	2.6	5.2	10.4	15.6	18.2	18.2	15.6	15.6	13.0	10.4
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	7.8	7.8	7.8	7.8	7.8
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°	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6	5162.6
2.5°	5188.7	5107.9	4985.4	4792.5	4607.5	4487.7	4372.9	4245.3	4174.9	4169.7	4130.7
5°	5251.2	5068.8	4777.0	4445.9	4091.5	3786.6	3479.1	3278.5	3098.6	2999.6	2981.3
7.5°	5285.1	5047.9	4576.2	4021.2	3416.6	2918.8	2574.8	2322.0	2223.0	2150.0	2147.4
10°	5355.5	5011.4	4276.6	3458.3	2710.3	2207.4	1970.2	1855.5	1800.8	1780.0	1748.7
12.5°	5407.6	4943.7	3969.0	2879.7	2142.2	1829.4	1725.2	1699.2	1701.8	1712.2	1699.2
15°	5480.5	4883.8	3554.7	2363.7	1798.2	1647.0	1647.0	1652.2	1688.7	1693.9	1691.3
17.5°	5475.3	4766.5	3127.3	1946.7	1589.7	1568.9	1576.7	1626.2	1649.6	1657.4	1639.2
20°	5537.9	4657.0	2686.8	1662.7	1472.4	1503.7	1555.8	1568.9	1597.5	1602.7	1581.9
22.5°	5519.7	4383.4	2277.7	1438.5	1383.8	1443.7	1495.9	1511.5	1503.7	1488.1	1485.5
25°	5485.8	4148.8	1902.4	1290.0	1318.7	1383.8	1433.3	1404.6	1389.0	1391.6	1394.2
27.5°	5425.8	3851.8	1592.3	1185.7	1230.0	1326.5	1323.9	1313.5	1329.1	1316.1	1329.1
30°	5415.4	3554.7	1336.9	1092.0	1165.0	1235.3	1240.5	1258.7	1277.0	1253.5	1277.0
32.5°	5431.0	3228.9	1154.5	1034.6	1125.8	1128.5	1185.7	1204.0	1190.9	1138.9	1144.1
35°	5550.9	2978.7	1021.6	1003.3	1063.3	1065.9	1120.6	1097.2	1039.8	1008.5	1026.8
37.5°	5803.7	2770.3	959.0	974.6	979.8	1013.7	1016.3	969.4	974.6	972.0	982.5
40°	6126.9	2611.3	914.8	948.6	943.4	966.8	873.0	899.1	922.6	930.4	935.6
42.5°	6348.4	2496.6	886.1	906.9	896.5	854.8	802.7	828.7	847.0	875.6	880.9
45°	6447.4	2405.4	852.2	833.9	833.9	758.3	737.6	742.8	784.4	815.7	810.5
47.5°	6285.8	2316.8	792.2	737.6	755.7	693.2	669.8	669.8	714.1	753.1	745.3
48°	6223.3	2280.3	794.8	716.7	729.7	682.8	659.3	654.1	703.7	740.2	740.2
50°	5913.2	2144.8	727.1	659.3	633.3	628.1	612.4	617.6	648.9	682.8	682.8
52.5°	5308.6	1852.9	615.0	565.5	518.6	549.8	557.7	547.2	562.9	594.2	591.6
55°	4430.3	1422.9	492.6	469.1	432.6	466.5	482.1	469.1	453.5	476.9	476.9
57.5°	2838.0	766.2	393.5	398.7	362.2	396.1	409.1	377.9	349.2	367.4	364.8
60°	1279.6	458.7	323.1	315.4	291.9	330.9	351.8	315.4	276.3	289.3	302.3
62.5°	479.5	325.7	245.0	239.8	234.6	271.1	281.5	252.8	213.7	221.5	224.1
65°	351.8	286.7	195.4	177.2	187.6	213.7	208.5	179.8	153.7	153.7	158.9
67.5°	299.7	250.2	158.9	138.1	138.1	140.7	130.3	114.6	106.8	112.0	117.2
70°	234.6	198.1	125.1	106.8	96.5	86.0	75.6	73.0	65.2	73.0	70.4
72.5°	151.1	132.9	96.5	80.8	73.0	60.0	49.5	46.9	39.1	36.5	36.5
75°	80.8	80.8	75.6	65.2	57.4	46.9	39.1	31.3	20.9	15.6	15.6
77.5°	57.4	62.6	67.8	62.6	52.1	39.1	31.3	20.9	10.4	5.2	5.2
80°	54.7	62.6	67.8	60.0	52.1	39.1	28.7	15.6	7.8	2.6	2.6
82.5°	49.5	57.4	62.6	54.7	46.9	33.9	26.1	15.6	7.8	2.6	2.6
85°	10.4	13.0	15.6	15.6	18.2	23.5	18.2	13.0	5.2	2.6	2.6
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2	2.6	2.6	2.6
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)