

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: P531113

Luminaire Tested: **GALN-SA6B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531113  
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-SA6B-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 18503 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

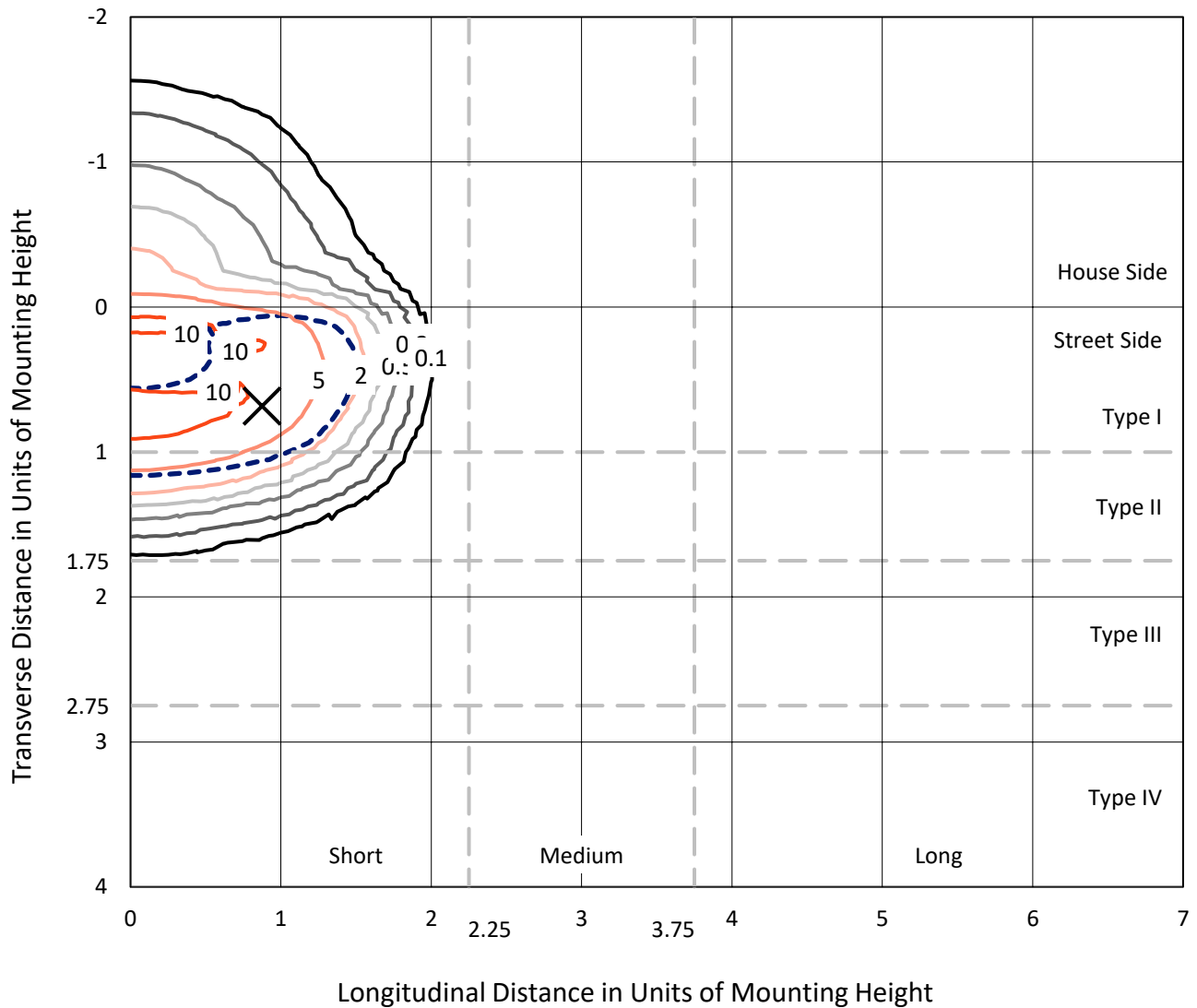
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

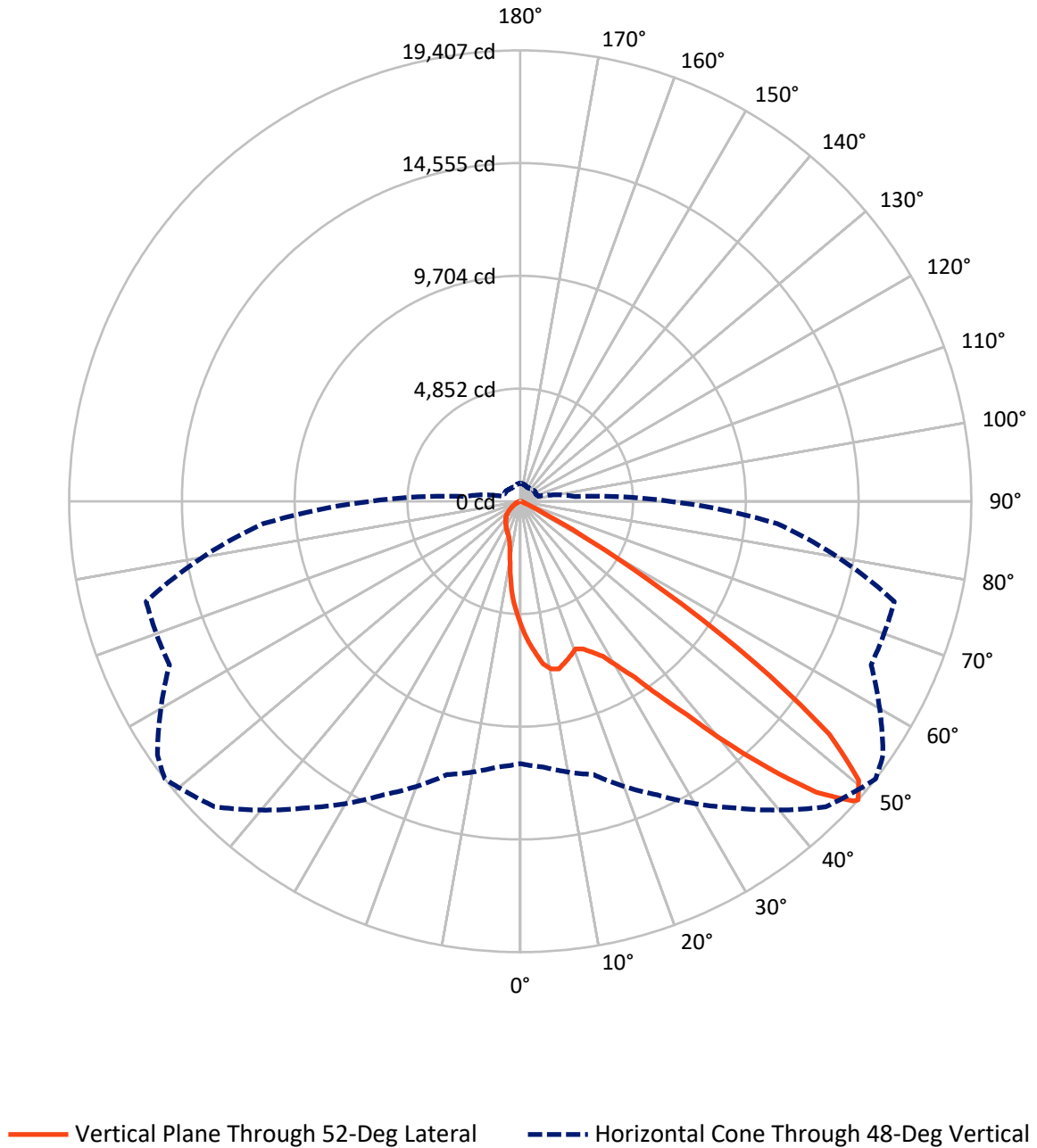
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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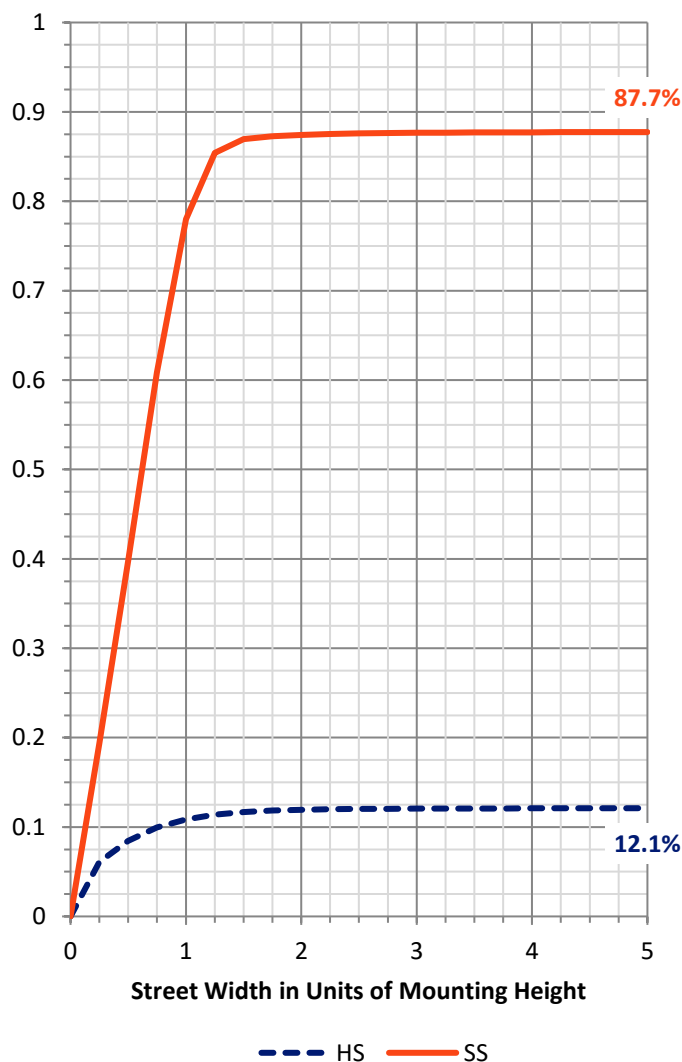
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2252.9	0.0	2252.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	16250.1	0.0	16250.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	18503.0	0.0	18503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.1	2.6
10°-20°	1278.1	6.9
20°-30°	2182.3	11.8
30°-40°	4018.6	21.7
40°-50°	6240.9	33.7
50°-60°	3756.0	20.3
60°-70°	434.4	2.3
70°-80°	84.1	0.5
80°-90°	19.5	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°	18503.0	100.0
0°-180°	18503.0	100.0

**Coefficient of Utilization**

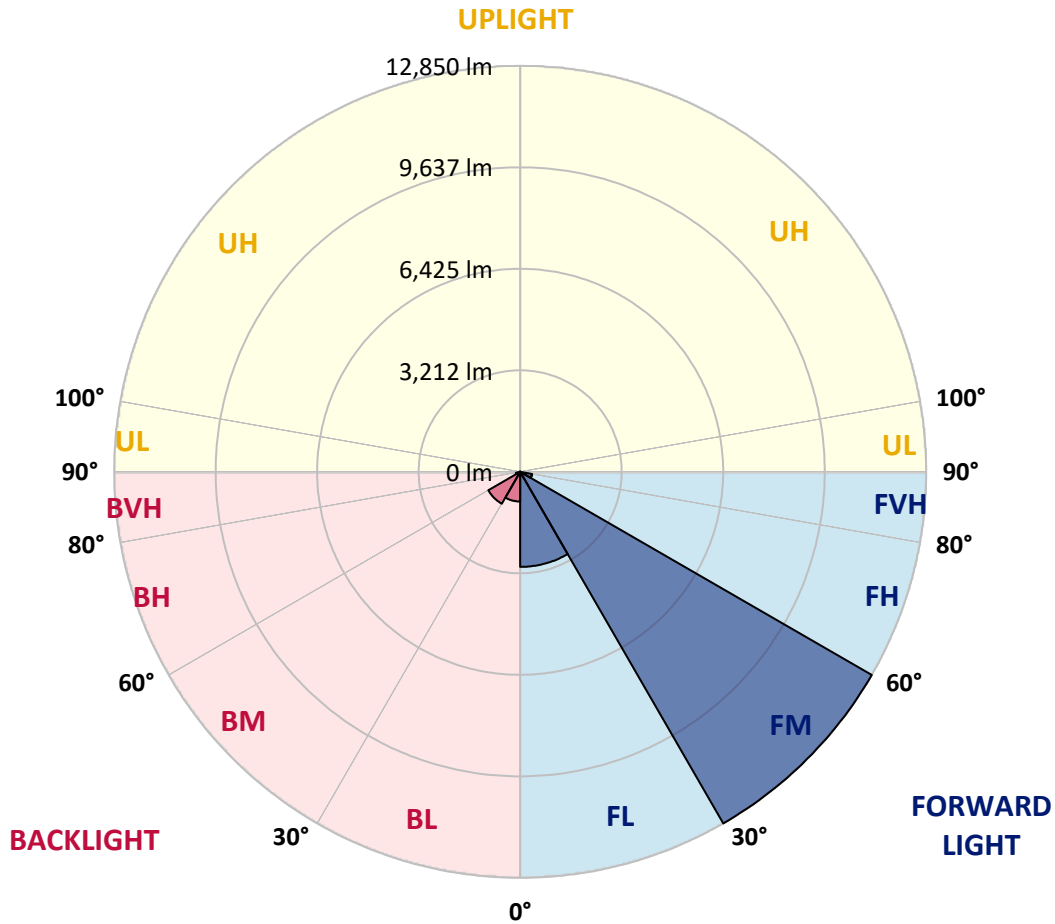


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.3	16.3			
FM (30°-60°)	12850.0	69.4			
FH (60°-80°)	382.5	2.1			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	941.1	5.1	B2/1000		
BM (30°-60°)	1165.6	6.3	B2/2500		
BH (60°-80°)	136.0	0.7	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
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°	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4
2.5°	6476.2	6327.9	6341.4	6244.3	6187.6	6095.9	5971.8	5947.6	5812.7	5629.3	5443.2
5°	7058.8	7023.8	7069.6	6929.4	6934.8	6783.7	6492.4	6497.8	6187.6	5888.2	5599.6
7.5°	7096.6	7015.7	7061.5	7185.6	7258.4	7231.5	7066.9	6924.0	6630.0	6190.3	5769.5
10°	6354.8	6508.6	6557.1	6762.1	7053.4	7360.9	7342.1	7350.2	7104.7	6530.2	5915.2
12.5°	5909.8	5807.3	5971.8	6095.9	6535.6	7131.7	7404.1	7463.4	7482.3	6859.2	6060.8
15°	5707.5	5707.5	5734.5	5769.5	6087.8	6638.1	7193.7	7366.3	7773.6	7290.8	6290.1
17.5°	5834.3	5828.9	5866.6	5793.8	5912.5	6336.0	6999.5	7196.4	8100.0	7714.3	6470.8
20°	6220.0	6238.9	6214.6	6004.2	6012.3	6330.6	6783.7	7093.9	8321.2	8081.1	6710.9
22.5°	6756.7	6767.5	6630.0	6400.7	6333.3	6489.7	6907.8	7145.2	8499.2	8520.8	6783.7
25°	7377.1	7334.0	7307.0	6983.3	6778.3	6913.2	7188.3	7325.9	8609.8	8898.4	6991.4
27.5°	8237.6	8151.3	7986.7	7698.1	7547.1	7355.5	7552.5	7779.0	8925.4	9427.1	7218.0
30°	9508.0	9432.5	9111.5	8739.3	8342.8	8153.9	8216.0	8340.1	9494.5	10039.4	7517.4
32.5°	11420.4	11261.2	10797.3	10087.9	9548.5	9027.9	9011.7	9143.9	10004.3	10886.3	7873.4
35°	13527.0	13478.4	12796.0	12065.0	11021.2	10217.4	10230.9	10301.0	10980.7	11997.6	8340.1
37.5°	14926.9	15193.9	14759.6	13974.7	13098.1	11949.1	11657.7	11682.0	12321.3	13313.9	9181.6
40°	16008.5	15781.9	15833.2	15649.8	15051.0	14268.7	13624.1	13497.3	13872.2	14770.4	10017.8
42.5°	15536.5	15547.3	15862.8	16297.1	16445.5	16388.8	15730.7	15490.6	15199.3	15962.6	10813.5
45°	14204.0	14481.8	14891.8	16040.9	17049.7	17996.4	17866.9	17467.7	16116.4	16906.7	11272.0
47.5°	12078.5	12067.7	12739.4	14233.7	16475.1	18692.3	19280.3	18999.8	16766.4	16801.5	11177.6
48°	11293.6	11487.8	12181.0	13939.7	16111.0	18589.8	19407.1	19053.8	16655.9	16661.2	11096.7
50°	8348.2	8313.1	9176.2	11334.1	14390.1	17467.7	18873.0	19148.2	16653.2	15951.9	10530.3
52.5°	4410.1	4561.1	5189.6	7126.3	10174.2	14295.7	16647.8	17076.6	16065.1	14792.0	9715.7
55°	1874.6	1693.9	2176.7	3217.9	5723.7	9551.2	12213.4	13168.2	13583.6	13090.0	8499.2
57.5°	668.9	731.0	841.6	1211.1	2406.0	5227.4	7282.7	8024.5	9410.9	9605.1	5791.1
60°	428.9	437.0	472.0	555.6	903.6	2014.9	3455.2	4046.0	4674.4	4825.5	2702.7
62.5°	331.8	334.5	350.6	364.1	428.9	782.2	1297.4	1537.5	1596.8	1372.9	709.4
65°	277.8	280.5	285.9	285.9	304.8	366.8	453.1	499.0	485.5	480.1	401.9
67.5°	213.1	218.5	229.3	229.3	240.1	223.9	250.8	267.0	302.1	366.8	342.6
70°	167.2	169.9	178.0	183.4	183.4	161.8	180.7	196.9	221.2	272.4	269.7
72.5°	129.5	134.9	140.3	140.3	132.2	110.6	129.5	143.0	159.1	188.8	183.4
75°	99.8	99.8	102.5	83.6	64.7	56.6	78.2	94.4	118.7	124.1	102.5
77.5°	27.0	29.7	27.0	24.3	27.0	40.5	51.2	59.3	75.5	75.5	67.4
80°	0.0	2.7	8.1	16.2	27.0	37.8	45.9	51.2	59.3	64.7	62.0
82.5°	0.0	2.7	8.1	16.2	24.3	29.7	40.5	43.2	48.6	56.6	56.6
85°	0.0	2.7	5.4	10.8	16.2	18.9	18.9	16.2	16.2	13.5	10.8
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	8.1	8.1	8.1	8.1	8.1
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°	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4	5343.4
2.5°	5370.3	5286.7	5159.9	4960.3	4768.8	4644.8	4526.1	4393.9	4321.1	4315.7	4275.2
5°	5435.1	5246.3	4944.2	4601.6	4234.8	3919.2	3600.9	3393.2	3207.1	3104.6	3085.7
7.5°	5470.1	5224.7	4736.5	4161.9	3536.2	3021.0	2664.9	2403.3	2300.8	2225.3	2222.6
10°	5543.0	5186.9	4426.3	3579.3	2805.2	2284.6	2039.2	1920.5	1863.8	1842.3	1809.9
12.5°	5596.9	5116.8	4108.0	2980.5	2217.2	1893.5	1785.6	1758.6	1761.3	1772.1	1758.6
15°	5672.4	5054.7	3679.1	2446.5	1861.1	1704.7	1704.7	1710.1	1747.9	1753.2	1750.6
17.5°	5667.0	4933.4	3236.8	2014.9	1645.4	1623.8	1631.9	1683.1	1707.4	1715.5	1696.6
20°	5731.8	4820.1	2780.9	1720.9	1524.0	1556.3	1610.3	1623.8	1653.4	1658.8	1637.3
22.5°	5712.9	4536.9	2357.4	1488.9	1432.3	1494.3	1548.3	1564.4	1556.3	1540.2	1537.5
25°	5677.8	4294.1	1969.0	1335.2	1364.8	1432.3	1483.5	1453.8	1437.7	1440.4	1443.1
27.5°	5615.8	3986.6	1648.1	1227.3	1273.1	1372.9	1370.2	1359.4	1375.6	1362.1	1375.6
30°	5605.0	3679.1	1383.7	1130.2	1205.7	1278.5	1283.9	1302.8	1321.7	1297.4	1321.7
32.5°	5621.2	3342.0	1194.9	1070.8	1165.2	1167.9	1227.3	1246.2	1232.7	1178.7	1184.1
35°	5745.3	3083.0	1057.3	1038.5	1100.5	1103.2	1159.8	1135.6	1076.2	1043.9	1062.7
37.5°	6006.9	2867.2	992.6	1008.8	1014.2	1049.3	1051.9	1003.4	1008.8	1006.1	1016.9
40°	6341.4	2702.7	946.8	981.8	976.4	1000.7	903.6	930.6	954.8	962.9	968.3
42.5°	6570.6	2584.0	917.1	938.7	927.9	884.7	830.8	857.7	876.6	906.3	911.7
45°	6673.1	2489.6	882.0	863.1	863.1	784.9	763.3	768.7	811.9	844.3	838.9
47.5°	6505.9	2397.9	820.0	763.3	782.2	717.5	693.2	693.2	739.1	779.5	771.4
48°	6441.2	2360.1	822.7	741.8	755.2	706.7	682.4	677.0	728.3	766.0	766.0
50°	6120.2	2219.9	752.5	682.4	655.4	650.1	633.9	639.3	671.6	706.7	706.7
52.5°	5494.4	1917.8	636.6	585.3	536.8	569.1	577.2	566.4	582.6	615.0	612.3
55°	4585.4	1472.7	509.8	485.5	447.8	482.8	499.0	485.5	469.3	493.6	493.6
57.5°	2937.4	793.0	407.3	412.7	374.9	410.0	423.5	391.1	361.4	380.3	377.6
60°	1324.4	474.7	334.5	326.4	302.1	342.6	364.1	326.4	285.9	299.4	312.9
62.5°	496.3	337.2	253.5	248.2	242.8	280.5	291.3	261.6	221.2	229.3	232.0
65°	364.1	296.7	202.3	183.4	194.2	221.2	215.8	186.1	159.1	159.1	164.5
67.5°	310.2	258.9	164.5	143.0	143.0	145.7	134.9	118.7	110.6	116.0	121.4
70°	242.8	205.0	129.5	110.6	99.8	89.0	78.2	75.5	67.4	75.5	72.8
72.5°	156.4	137.6	99.8	83.6	75.5	62.0	51.2	48.6	40.5	37.8	37.8
75°	83.6	83.6	78.2	67.4	59.3	48.6	40.5	32.4	21.6	16.2	16.2
77.5°	59.3	64.7	70.1	64.7	53.9	40.5	32.4	21.6	10.8	5.4	5.4
80°	56.6	64.7	70.1	62.0	53.9	40.5	29.7	16.2	8.1	2.7	2.7
82.5°	51.2	59.3	64.7	56.6	48.6	35.1	27.0	16.2	8.1	2.7	2.7
85°	10.8	13.5	16.2	16.2	18.9	24.3	18.9	13.5	5.4	2.7	2.7
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	2.7
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)