

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: P646878

Luminaire Tested: **GALN-SA4C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19650.2 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

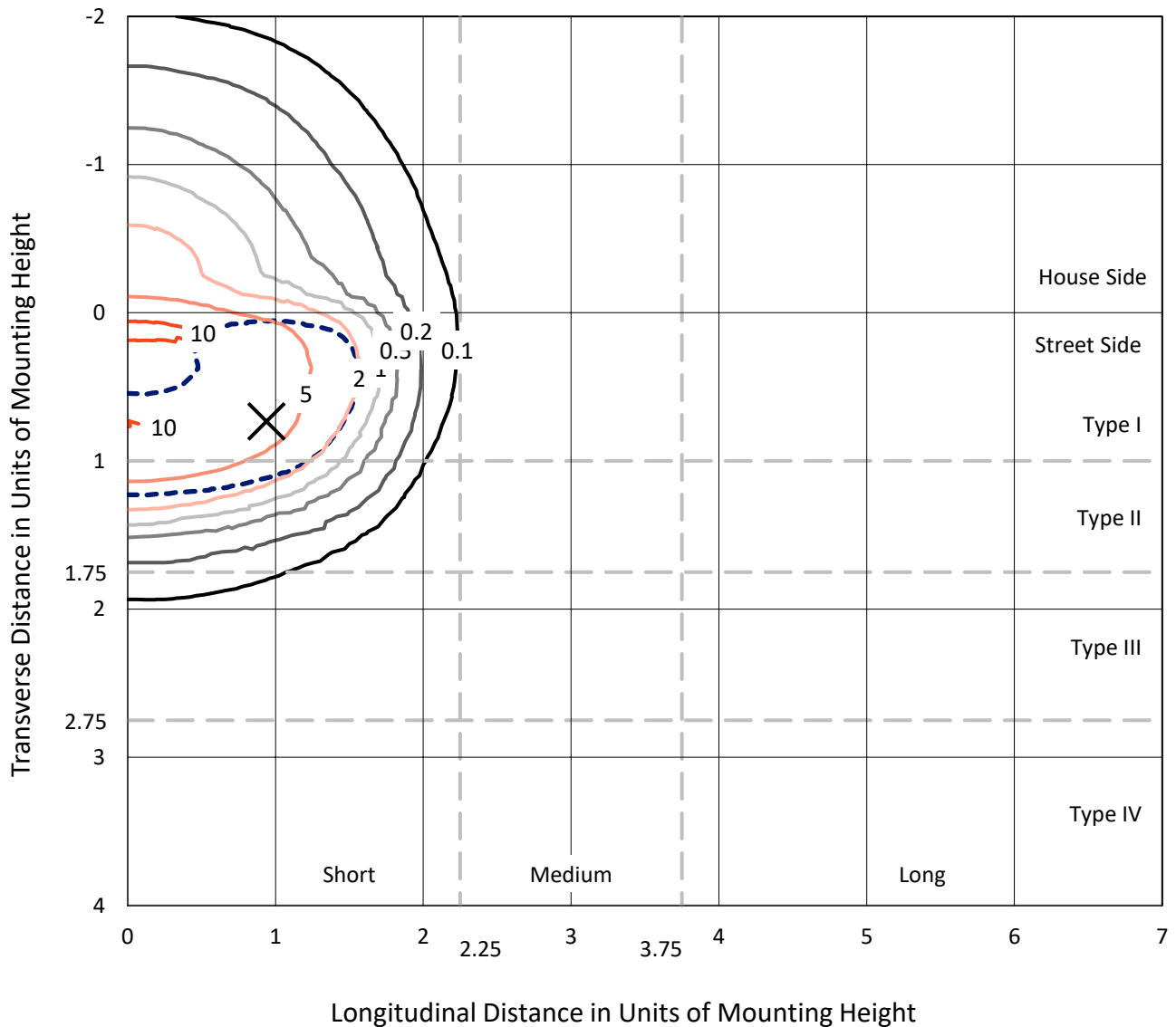
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

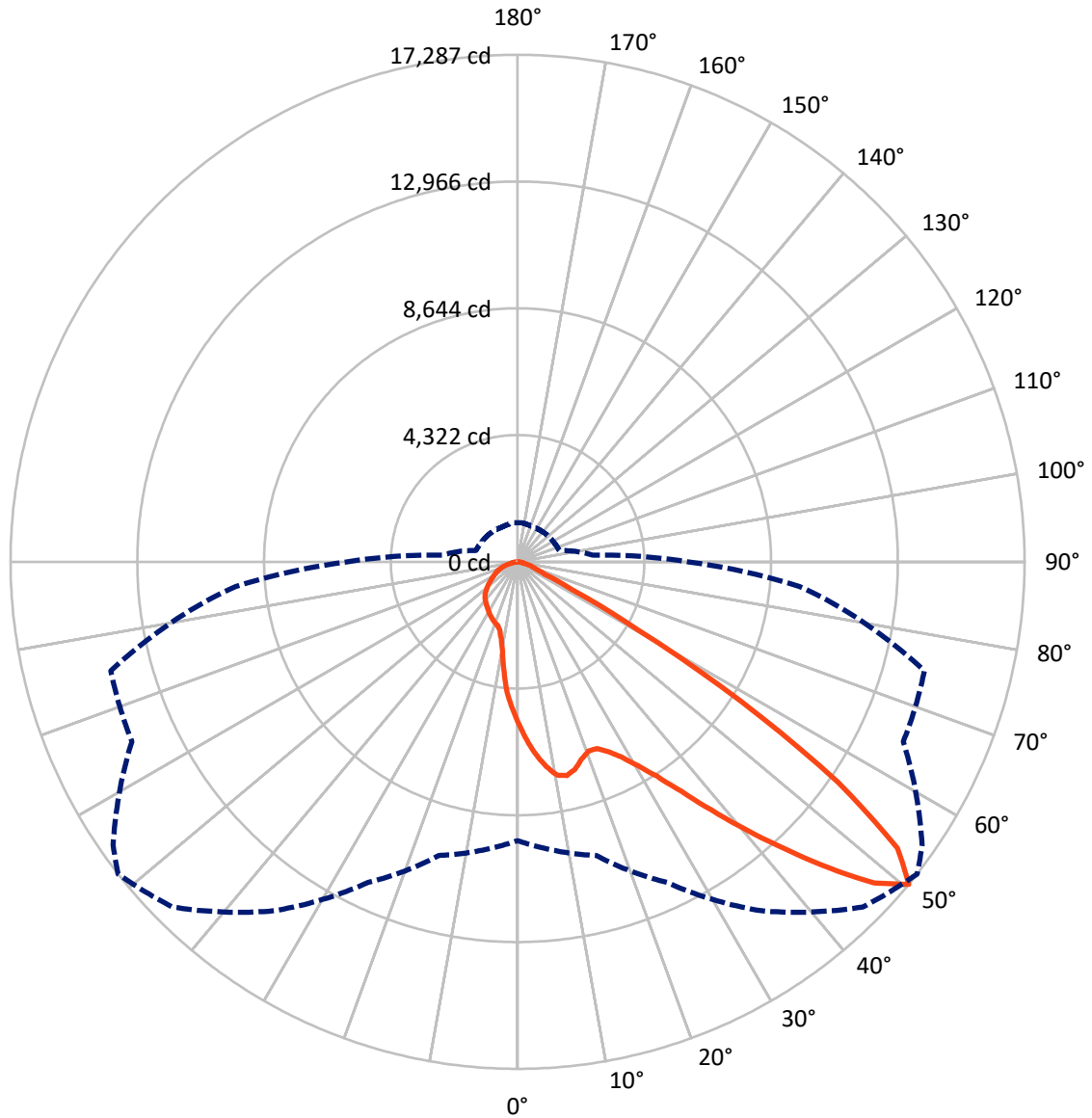
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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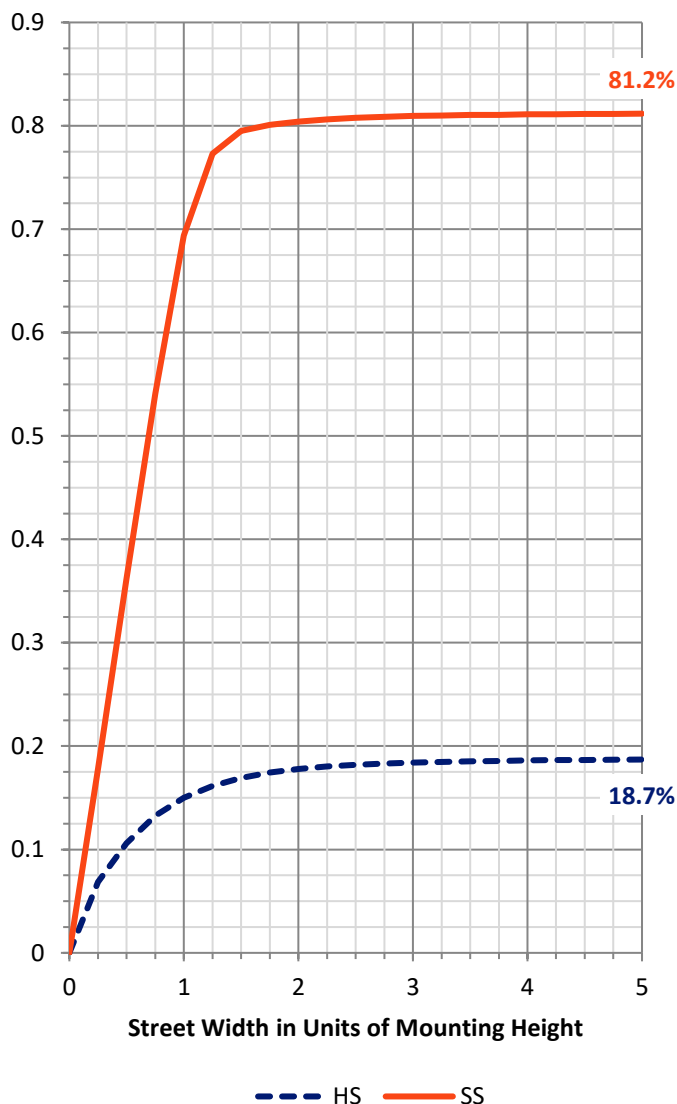
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3693.8	0.0	3693.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15956.4	0.0	15956.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19650.2	0.0	19650.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.5	2.6
10°-20°	1368.4	7.0
20°-30°	2304.9	11.7
30°-40°	3867.9	19.7
40°-50°	5916.9	30.1
50°-60°	4313.9	22.0
60°-70°	960.1	4.9
70°-80°	346.3	1.8
80°-90°	61.3	0.3
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°	19650.2	100.0
0°-180°	19650.2	100.0

**Coefficient of Utilization**



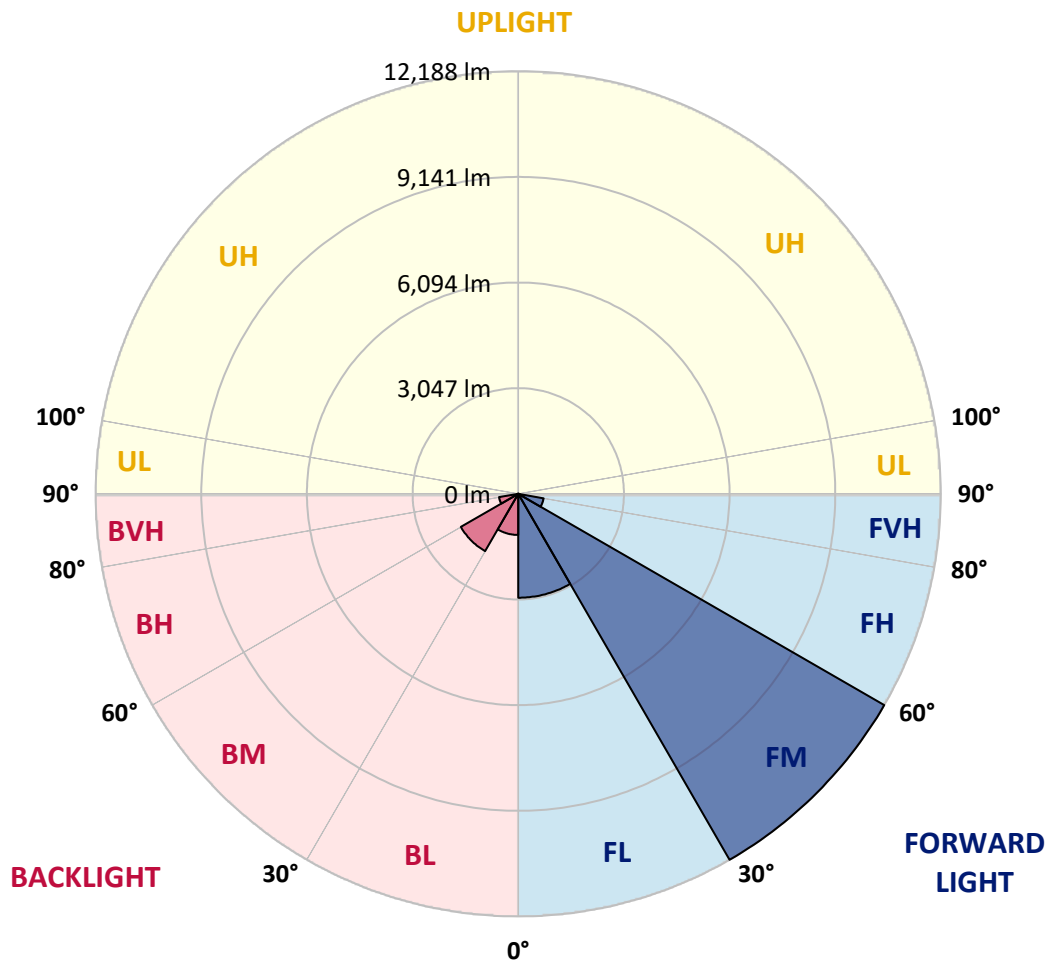
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2997.3	15.3			
FM (30°-60°)	12188.0	62.0			
FH (60°-80°)	743.6	3.8			G1/1800
FVH (80°-90°)	27.5	0.1			G1/100
BL (0°-30°)	1186.5	6.0	B3/2500		
BM (30°-60°)	1910.7	9.7	B2/2500		
BH (60°-80°)	562.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	33.8	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	6521.8	6396.3	6410.5	6320.5	6223.4	6195.0	6095.6	6000.8	5929.8	5778.2	5638.5
5°	7128.0	7090.1	7033.4	6962.3	6888.9	6708.9	6607.1	6488.6	6228.2	5993.7	5761.6
7.5°	7215.7	7208.6	7239.4	7239.4	7265.5	7196.7	7052.3	6969.4	6692.3	6311.1	5880.1
10°	6600.0	6621.3	6770.5	6964.7	7234.6	7421.7	7398.0	7376.7	7073.6	6552.6	6019.8
12.5°	6109.7	6062.4	6150.0	6315.8	6720.7	7173.1	7478.6	7480.9	7402.8	6938.6	6121.7
15°	5832.7	5865.8	5889.6	5967.7	6273.2	6796.5	7334.1	7492.8	7836.1	7211.0	6282.6
17.5°	6010.3	5899.0	5894.3	5913.2	6069.5	6462.6	7066.5	7338.8	8073.0	7561.4	6481.6
20°	6242.4	6240.0	6173.7	6150.0	6147.6	6498.1	6891.3	7260.7	8198.5	8016.1	6682.8
22.5°	6649.7	6649.7	6540.8	6488.6	6377.4	6664.0	6914.9	7165.9	8406.8	8328.7	6779.9
25°	7331.7	7220.4	7033.4	6905.4	6841.5	6943.3	7165.9	7391.0	8589.2	8660.2	6981.2
27.5°	7961.6	7786.4	7694.1	7473.8	7388.5	7329.3	7533.0	7760.4	8802.3	9176.5	7090.1
30°	8676.8	8646.0	8480.3	8196.1	7985.3	7876.4	8063.5	8288.4	9193.0	9704.6	7341.2
32.5°	9955.6	9676.2	9451.2	9103.1	8759.7	8527.7	8712.4	8861.5	9841.9	10256.4	7615.9
35°	11336.3	11246.2	10857.9	10230.3	9704.6	9496.2	9605.1	9716.4	10597.4	11099.4	8077.7
37.5°	12693.2	12570.0	12250.3	11722.2	11082.8	10659.0	10737.1	10867.3	11445.2	12236.1	8641.3
40°	13668.8	13517.3	13356.3	13278.1	12643.4	12063.3	12018.3	12051.4	12591.3	13301.8	9266.5
42.5°	13739.9	13927.0	13976.7	14291.6	14142.5	13666.5	13389.4	13396.5	13685.4	14355.6	9898.8
45°	13590.7	13417.8	13784.9	14644.5	15137.1	15359.7	14893.2	14833.9	14362.7	14966.6	10213.8
47.5°	12025.4	12072.8	12693.2	14052.5	15475.8	16470.3	16361.4	16164.9	14725.0	14945.3	10164.0
50°	9505.7	9792.2	10367.7	12060.9	14528.5	16645.6	17287.4	16832.7	14509.5	14357.9	9657.2
52.5°	6330.0	6448.4	6827.3	9013.1	11682.0	14879.0	16221.7	16325.9	14310.6	13588.3	9015.5
55°	2818.1	2808.6	3341.5	4707.9	7329.3	11322.0	13254.4	13889.1	13545.7	12804.5	8390.3
57.5°	1193.5	1233.8	1451.7	2034.2	3604.3	6832.1	8979.9	9536.5	10417.4	10514.5	6436.6
60°	807.5	812.3	871.5	1018.3	1508.5	3208.8	4710.2	5378.0	6008.0	5965.3	3414.8
62.5°	634.6	651.2	696.2	755.4	895.1	1456.4	2107.6	2479.4	2519.7	2119.5	1295.4
65°	542.3	544.7	589.7	639.4	700.9	847.8	1015.9	1034.9	1046.7	1008.8	952.0
67.5°	447.6	452.3	487.8	544.7	601.5	648.9	696.2	719.9	774.4	881.0	866.7
70°	355.2	362.3	393.1	440.4	492.6	521.0	580.2	601.5	651.2	734.1	767.3
72.5°	270.0	272.3	298.4	331.5	378.9	407.3	457.0	480.8	513.9	584.9	615.8
75°	194.2	201.3	220.3	236.8	243.9	262.9	310.2	336.3	383.7	414.4	416.8
77.5°	101.9	106.6	111.3	111.3	135.0	170.5	201.3	215.5	248.7	272.3	260.5
80°	40.2	42.6	54.5	73.4	94.7	123.2	144.5	151.6	180.0	194.2	201.3
82.5°	23.6	26.1	35.5	52.1	68.7	87.6	104.2	111.3	130.2	146.8	151.6
85°	11.8	14.2	21.3	33.1	45.0	54.5	52.1	49.7	49.7	47.4	49.7
87.5°	4.7	4.7	7.1	7.1	7.1	9.5	11.8	11.8	11.8	14.2	14.2
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°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	5546.1	5451.4	5363.8	5202.8	5027.6	4977.8	4774.2	4700.7	4648.7	4587.0	4568.1
5°	5574.6	5449.1	5167.3	4842.9	4584.7	4253.2	4035.3	3800.8	3630.4	3587.7	3575.9
7.5°	5633.8	5418.3	4932.8	4442.6	3914.5	3464.5	3121.2	2936.5	2773.1	2763.6	2747.0
10°	5700.1	5325.9	4677.1	3907.4	3232.5	2815.7	2609.7	2529.2	2488.9	2479.4	2474.7
12.5°	5754.6	5307.0	4390.5	3386.4	2749.4	2498.4	2436.8	2429.7	2446.2	2451.0	2460.5
15°	5778.2	5231.2	4044.7	2919.9	2448.7	2356.3	2382.4	2410.8	2422.6	2453.4	2429.7
17.5°	5823.2	5134.1	3618.5	2550.5	2280.5	2297.1	2342.1	2375.2	2394.2	2415.5	2384.7
20°	5846.9	5046.5	3218.3	2330.2	2221.3	2252.1	2313.7	2339.7	2363.4	2372.9	2337.3
22.5°	5825.6	4866.5	2865.5	2152.6	2164.4	2204.7	2259.2	2287.6	2273.4	2235.5	2214.2
25°	5768.8	4613.1	2498.4	2038.9	2084.0	2155.0	2197.6	2176.3	2150.3	2129.0	2121.9
27.5°	5766.4	4302.9	2233.1	1934.8	2015.3	2112.4	2098.1	2079.3	2091.1	2074.5	2055.5
30°	5778.2	4002.1	2015.3	1875.6	1965.6	2012.9	2029.5	2010.5	2024.8	1994.0	2003.5
32.5°	5716.7	3708.5	1873.2	1806.9	1906.4	1903.9	1958.4	1972.7	1939.5	1875.6	1885.0
35°	5742.7	3471.7	1752.4	1776.1	1840.0	1840.0	1882.6	1866.1	1778.4	1740.6	1750.1
37.5°	5922.7	3239.6	1693.2	1733.5	1776.1	1795.0	1780.9	1709.8	1688.5	1688.5	1693.2
40°	6093.2	3040.7	1657.7	1724.0	1716.9	1728.7	1624.6	1631.6	1631.6	1634.0	1622.1
42.5°	6244.7	2905.7	1629.3	1667.2	1679.0	1617.4	1553.5	1546.4	1562.9	1560.6	1551.1
45°	6299.2	2794.4	1589.0	1603.2	1612.7	1510.9	1480.1	1465.9	1484.8	1491.9	1501.4
47.5°	6090.8	2702.1	1544.0	1515.6	1496.6	1430.4	1390.1	1364.1	1387.7	1428.0	1437.4
50°	5823.2	2581.2	1473.0	1418.5	1378.2	1349.8	1321.4	1295.4	1311.9	1340.3	1333.3
52.5°	5427.8	2391.8	1383.0	1326.2	1257.5	1264.5	1238.5	1224.3	1233.8	1233.8	1226.7
55°	4864.2	1965.6	1231.4	1191.2	1134.3	1153.3	1158.0	1139.1	1120.2	1136.7	1122.5
57.5°	3320.2	1387.7	1098.8	1098.8	1042.0	1068.0	1065.7	1020.6	975.7	980.4	970.9
60°	1920.5	1105.9	1013.6	1004.1	944.8	966.2	970.9	940.1	871.5	876.2	866.7
62.5°	1091.7	944.8	885.7	871.5	859.7	878.6	878.6	838.3	779.1	783.9	774.4
65°	928.3	876.2	791.0	788.6	783.9	788.6	769.6	727.0	674.9	653.6	656.0
67.5°	843.1	809.9	727.0	705.7	691.5	689.1	653.6	613.3	589.7	570.7	568.4
70°	738.8	712.8	651.2	622.8	608.6	575.4	540.0	513.9	480.8	471.3	480.8
72.5°	584.9	582.6	558.9	528.1	497.3	471.3	440.4	405.0	374.2	367.1	350.5
75°	405.0	409.7	414.4	409.7	383.7	350.5	314.9	286.6	248.7	227.3	222.6
77.5°	265.2	272.3	279.5	270.0	253.4	222.6	199.0	163.4	135.0	118.4	116.0
80°	194.2	203.7	208.4	201.3	182.4	158.6	132.6	104.2	82.9	68.7	68.7
82.5°	149.2	158.6	163.4	151.6	132.6	113.7	94.7	73.4	56.8	45.0	42.6
85°	52.1	49.7	59.2	61.5	73.4	68.7	56.8	42.6	33.1	23.6	21.3
87.5°	14.2	14.2	16.6	16.6	14.2	11.8	11.8	11.8	9.5	7.1	7.1
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)