

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: P529371

Luminaire Tested: **GALN-SA4C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529371
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-SA4C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 19327 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

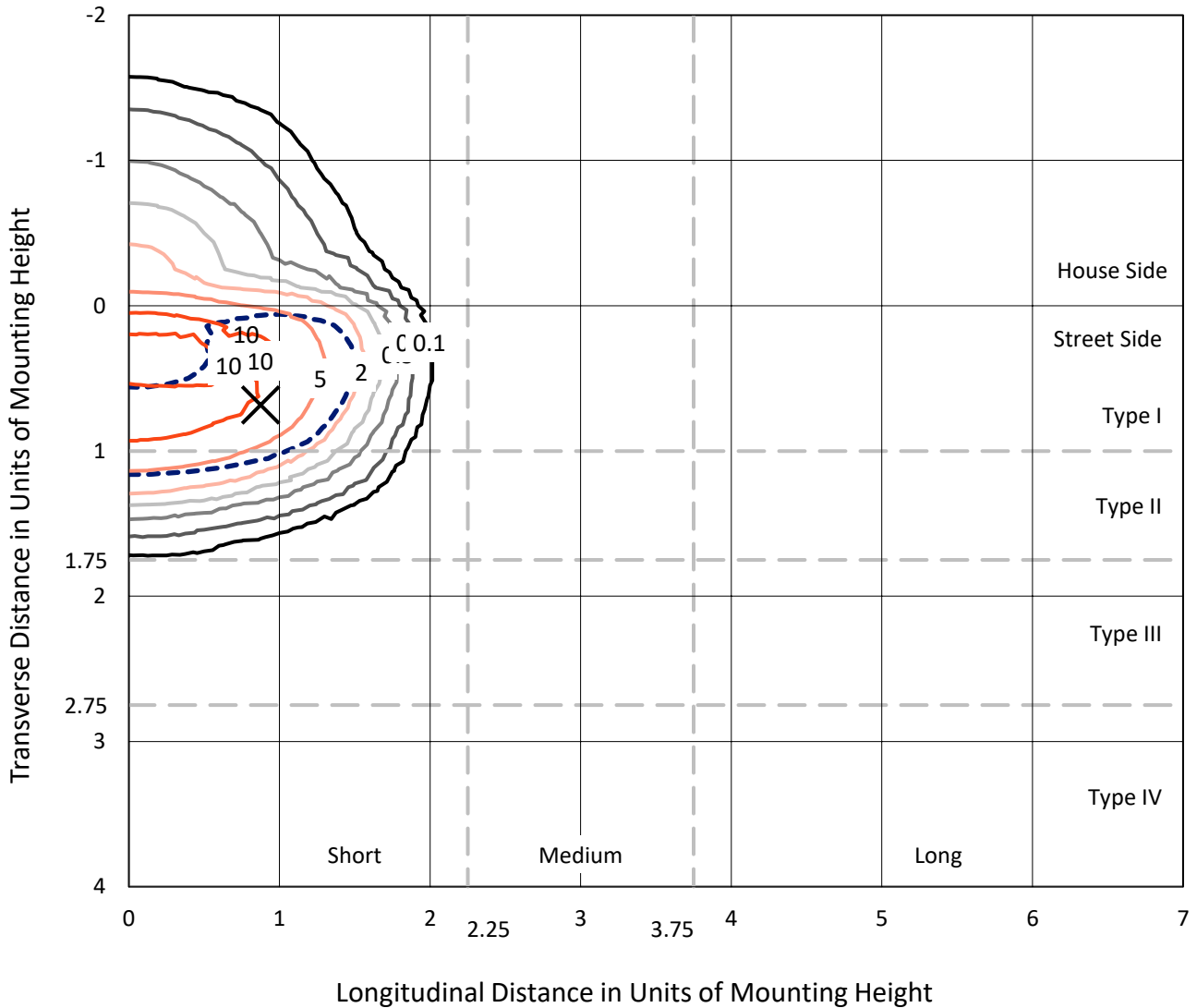
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

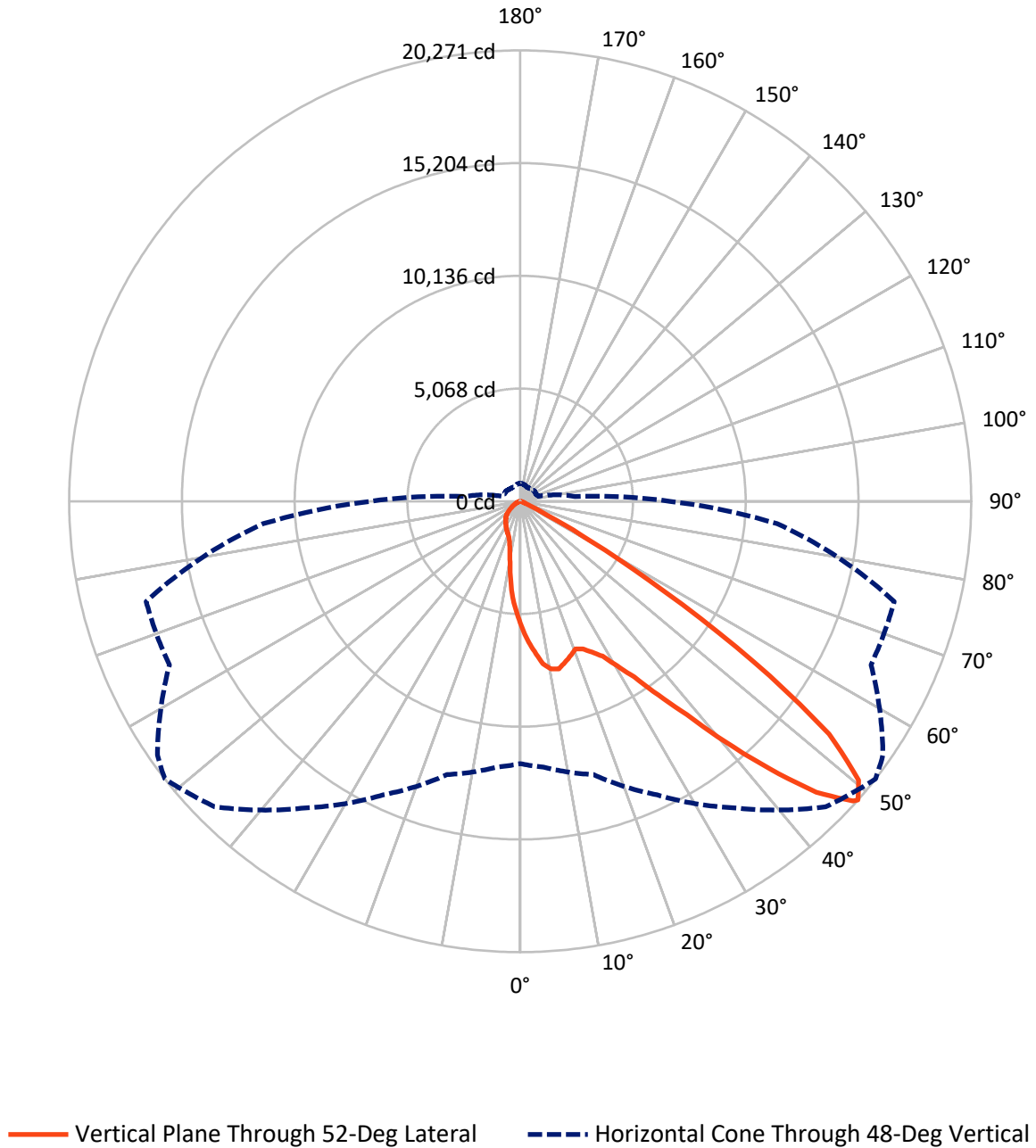
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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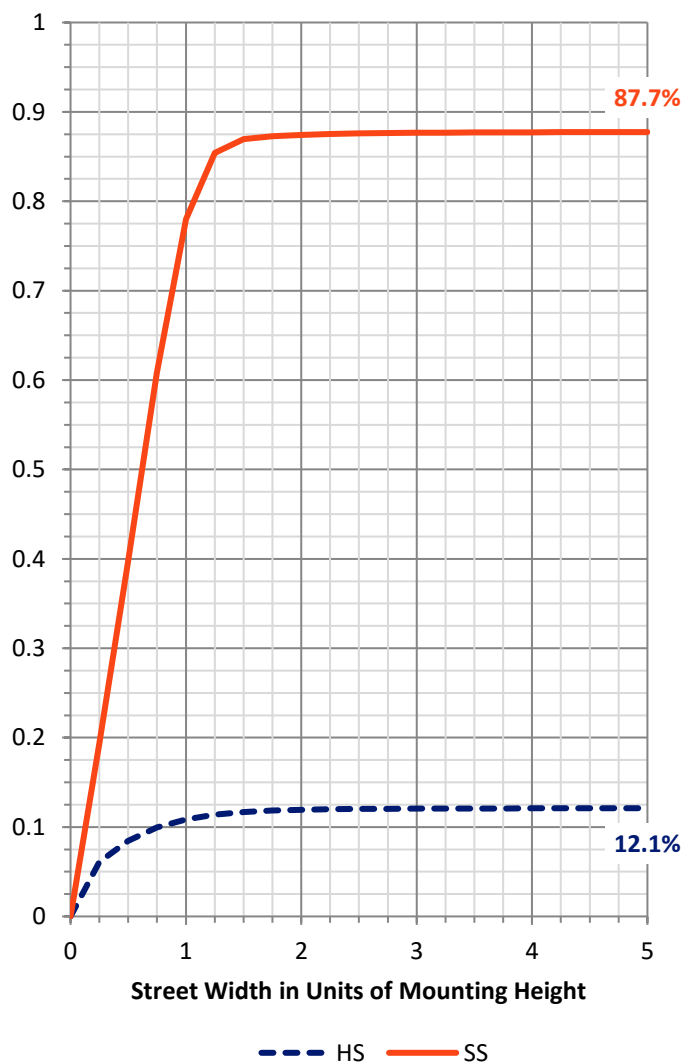
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2353.2	0.0	2353.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16973.8	0.0	16973.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	19327.0	0.0	19327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.9	2.6
10°-20°	1335.0	6.9
20°-30°	2279.5	11.8
30°-40°	4197.6	21.7
40°-50°	6518.9	33.7
50°-60°	3923.3	20.3
60°-70°	453.8	2.3
70°-80°	87.8	0.5
80°-90°	20.3	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°	19327.0	100.0
0°-180°	19327.0	100.0

Coefficient of Utilization



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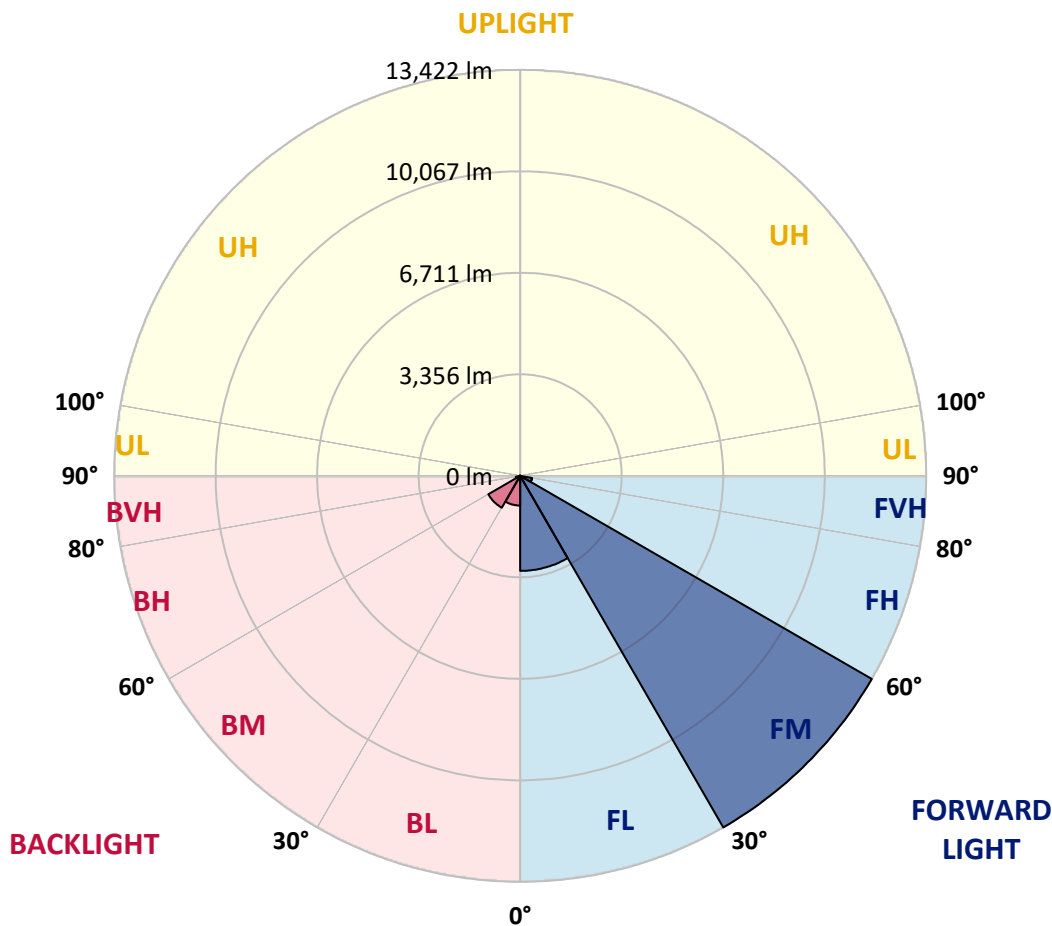
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.3	16.3			
FM (30°-60°)	13422.2	69.4			
FH (60°-80°)	399.6	2.1			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	983.0	5.1	B2/1000		
BM (30°-60°)	1217.5	6.3	B2/2500		
BH (60°-80°)	142.0	0.7	B1/500		G1/500
BVH (80°-90°)	10.6	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°	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3
2.5°	6764.6	6609.7	6623.8	6522.3	6463.2	6367.4	6237.8	6212.4	6071.5	5880.0	5685.6
5°	7373.2	7336.6	7384.5	7238.0	7243.6	7085.8	6781.5	6787.2	6463.2	6150.4	5849.0
7.5°	7412.6	7328.1	7376.0	7505.6	7581.7	7553.5	7381.7	7232.3	6925.2	6466.0	6026.5
10°	6637.9	6798.4	6849.2	7063.3	7367.6	7688.7	7669.0	7677.5	7421.1	6821.0	6178.6
12.5°	6173.0	6065.9	6237.8	6367.4	6826.6	7449.3	7733.8	7795.8	7815.5	7164.7	6330.8
15°	5961.7	5961.7	5989.8	6026.5	6358.9	6933.7	7514.1	7694.4	8119.8	7615.5	6570.2
17.5°	6094.1	6088.5	6127.9	6051.8	6175.8	6618.1	7311.2	7516.9	8460.7	8057.8	6759.0
20°	6497.0	6516.7	6491.3	6271.6	6280.0	6612.5	7085.8	7409.8	8691.8	8441.0	7009.8
22.5°	7057.6	7068.9	6925.2	6685.7	6615.3	6778.7	7215.4	7463.4	8877.7	8900.2	7085.8
25°	7705.7	7660.6	7632.4	7294.3	7080.2	7221.1	7508.4	7652.1	8993.2	9294.7	7302.8
27.5°	8604.4	8514.3	8342.4	8040.9	7883.2	7683.1	7888.8	8125.5	9322.9	9846.9	7539.4
30°	9931.4	9852.5	9517.3	9128.5	8714.3	8517.1	8581.9	8711.5	9917.3	10486.5	7852.2
32.5°	11929.0	11762.7	11278.1	10537.2	9973.7	9429.9	9413.0	9551.1	10449.8	11371.1	8224.1
35°	14129.4	14078.7	13365.9	12602.3	11512.0	10672.4	10686.5	10759.7	11469.7	12531.9	8711.5
37.5°	15591.6	15870.5	15416.9	14597.1	13681.4	12481.2	12176.9	12202.3	12870.0	13906.8	9590.5
40°	16721.4	16484.7	16538.3	16346.7	15721.2	14904.2	14230.8	14098.4	14490.0	15428.2	10463.9
42.5°	16228.4	16239.6	16569.3	17022.9	17177.8	17118.7	16431.2	16180.5	15876.2	16673.5	11295.1
45°	14836.6	15126.7	15555.0	16755.2	17808.9	18797.9	18662.6	18245.6	16834.1	17659.6	11774.0
47.5°	12616.4	12605.2	13306.7	14867.5	17208.8	19524.7	20138.9	19845.9	17513.1	17549.7	11675.4
48°	11796.6	11999.4	12723.5	14560.4	16828.5	19417.7	20271.4	19902.3	17397.6	17403.2	11590.9
50°	8719.9	8683.3	9584.9	11838.8	15031.0	18245.6	19713.5	20000.9	17394.8	16662.2	10999.2
52.5°	4606.5	4764.3	5420.7	7443.6	10627.3	14932.3	17389.1	17837.1	16780.6	15450.8	10148.4
55°	1958.1	1769.3	2273.7	3361.2	5978.6	9976.5	12757.3	13754.7	14188.5	13673.0	8877.7
57.5°	698.7	763.5	879.0	1265.0	2513.1	5460.2	7607.0	8381.8	9830.0	10032.8	6049.0
60°	448.0	456.4	493.0	580.4	943.8	2104.6	3609.1	4226.1	4882.6	5040.4	2823.1
62.5°	346.5	349.4	366.3	380.4	448.0	817.1	1355.2	1605.9	1667.9	1434.1	741.0
65°	290.2	293.0	298.6	298.6	318.4	383.2	473.3	521.2	507.1	501.5	419.8
67.5°	222.6	228.2	239.5	239.5	250.8	233.8	262.0	278.9	315.6	383.2	357.8
70°	174.7	177.5	185.9	191.6	191.6	169.0	188.8	205.7	231.0	284.6	281.7
72.5°	135.2	140.9	146.5	146.5	138.1	115.5	135.2	149.3	166.2	197.2	191.6
75°	104.2	104.2	107.1	87.3	67.6	59.2	81.7	98.6	124.0	129.6	107.1
77.5°	28.2	31.0	28.2	25.4	28.2	42.3	53.5	62.0	78.9	78.9	70.4
80°	0.0	2.8	8.5	16.9	28.2	39.4	47.9	53.5	62.0	67.6	64.8
82.5°	0.0	2.8	8.5	16.9	25.4	31.0	42.3	45.1	50.7	59.2	59.2
85°	0.0	2.8	5.6	11.3	16.9	19.7	19.7	16.9	16.9	14.1	11.3
87.5°	0.0	0.0	2.8	5.6	5.6	8.5	8.5	8.5	8.5	8.5	8.5
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°	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3	5581.3
2.5°	5609.5	5522.2	5389.7	5181.2	4981.2	4851.6	4727.6	4589.6	4513.5	4507.9	4465.6
5°	5677.1	5479.9	5164.3	4806.5	4423.4	4093.7	3761.3	3544.3	3349.9	3242.9	3223.1
7.5°	5713.7	5457.3	4947.4	4347.3	3693.6	3155.5	2783.6	2510.3	2403.3	2324.4	2321.6
10°	5789.8	5417.9	4623.4	3738.7	2930.1	2386.4	2130.0	2006.0	1946.8	1924.3	1890.5
12.5°	5846.2	5344.7	4290.9	3113.3	2315.9	1977.8	1865.1	1837.0	1839.8	1851.0	1837.0
15°	5925.0	5279.9	3843.0	2555.4	1944.0	1780.6	1780.6	1786.2	1825.7	1831.3	1828.5
17.5°	5919.4	5153.1	3380.9	2104.6	1718.6	1696.1	1704.5	1758.1	1783.4	1791.9	1772.2
20°	5987.0	5034.7	2904.8	1797.5	1591.8	1625.7	1682.0	1696.1	1727.1	1732.7	1710.2
22.5°	5967.3	4738.9	2462.4	1555.2	1496.1	1560.9	1617.2	1634.1	1625.7	1608.7	1605.9
25°	5930.7	4485.3	2056.7	1394.6	1425.6	1496.1	1549.6	1518.6	1501.7	1504.5	1507.3
27.5°	5865.9	4164.2	1721.4	1281.9	1329.8	1434.1	1431.3	1420.0	1436.9	1422.8	1436.9
30°	5854.6	3843.0	1445.3	1180.5	1259.4	1335.5	1341.1	1360.8	1380.5	1355.2	1380.5
32.5°	5871.5	3490.8	1248.1	1118.5	1217.1	1219.9	1281.9	1301.6	1287.6	1231.2	1236.8
35°	6001.1	3220.3	1104.4	1084.7	1149.5	1152.3	1211.5	1186.1	1124.2	1090.3	1110.1
37.5°	6274.4	2994.9	1036.8	1053.7	1059.4	1096.0	1098.8	1048.1	1053.7	1050.9	1062.2
40°	6623.8	2823.1	988.9	1025.5	1019.9	1045.3	943.8	972.0	997.4	1005.8	1011.5
42.5°	6863.2	2699.1	957.9	980.5	969.2	924.1	867.8	895.9	915.7	946.7	952.3
45°	6970.3	2600.5	921.3	901.6	901.6	819.9	797.3	803.0	848.0	881.9	876.2
47.5°	6795.6	2504.7	856.5	797.3	817.1	749.4	724.1	724.1	772.0	814.2	805.8
48°	6728.0	2465.2	859.3	774.8	788.9	738.2	712.8	707.2	760.7	800.1	800.1
50°	6392.7	2318.7	786.1	712.8	684.6	679.0	662.1	667.7	701.5	738.2	738.2
52.5°	5739.1	2003.2	664.9	611.4	560.7	594.5	602.9	591.7	608.6	642.4	639.6
55°	4789.6	1538.3	532.5	507.1	467.7	504.3	521.2	507.1	490.2	515.6	515.6
57.5°	3068.2	828.3	425.4	431.1	391.6	428.2	442.3	408.5	377.5	397.3	394.4
60°	1383.4	495.9	349.4	340.9	315.6	357.8	380.4	340.9	298.6	312.7	326.8
62.5°	518.4	352.2	264.8	259.2	253.6	293.0	304.3	273.3	231.0	239.5	242.3
65°	380.4	309.9	211.3	191.6	202.9	231.0	225.4	194.4	166.2	166.2	171.9
67.5°	324.0	270.5	171.9	149.3	149.3	152.1	140.9	124.0	115.5	121.1	126.8
70°	253.6	214.1	135.2	115.5	104.2	93.0	81.7	78.9	70.4	78.9	76.1
72.5°	163.4	143.7	104.2	87.3	78.9	64.8	53.5	50.7	42.3	39.4	39.4
75°	87.3	87.3	81.7	70.4	62.0	50.7	42.3	33.8	22.5	16.9	16.9
77.5°	62.0	67.6	73.3	67.6	56.3	42.3	33.8	22.5	11.3	5.6	5.6
80°	59.2	67.6	73.3	64.8	56.3	42.3	31.0	16.9	8.5	2.8	2.8
82.5°	53.5	62.0	67.6	59.2	50.7	36.6	28.2	16.9	8.5	2.8	2.8
85°	11.3	14.1	16.9	16.9	19.7	25.4	19.7	14.1	5.6	2.8	2.8
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	5.6	5.6	2.8	2.8	2.8
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)