

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: P529345

Luminaire Tested: **GALN-SA4C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529345
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-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 18895 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

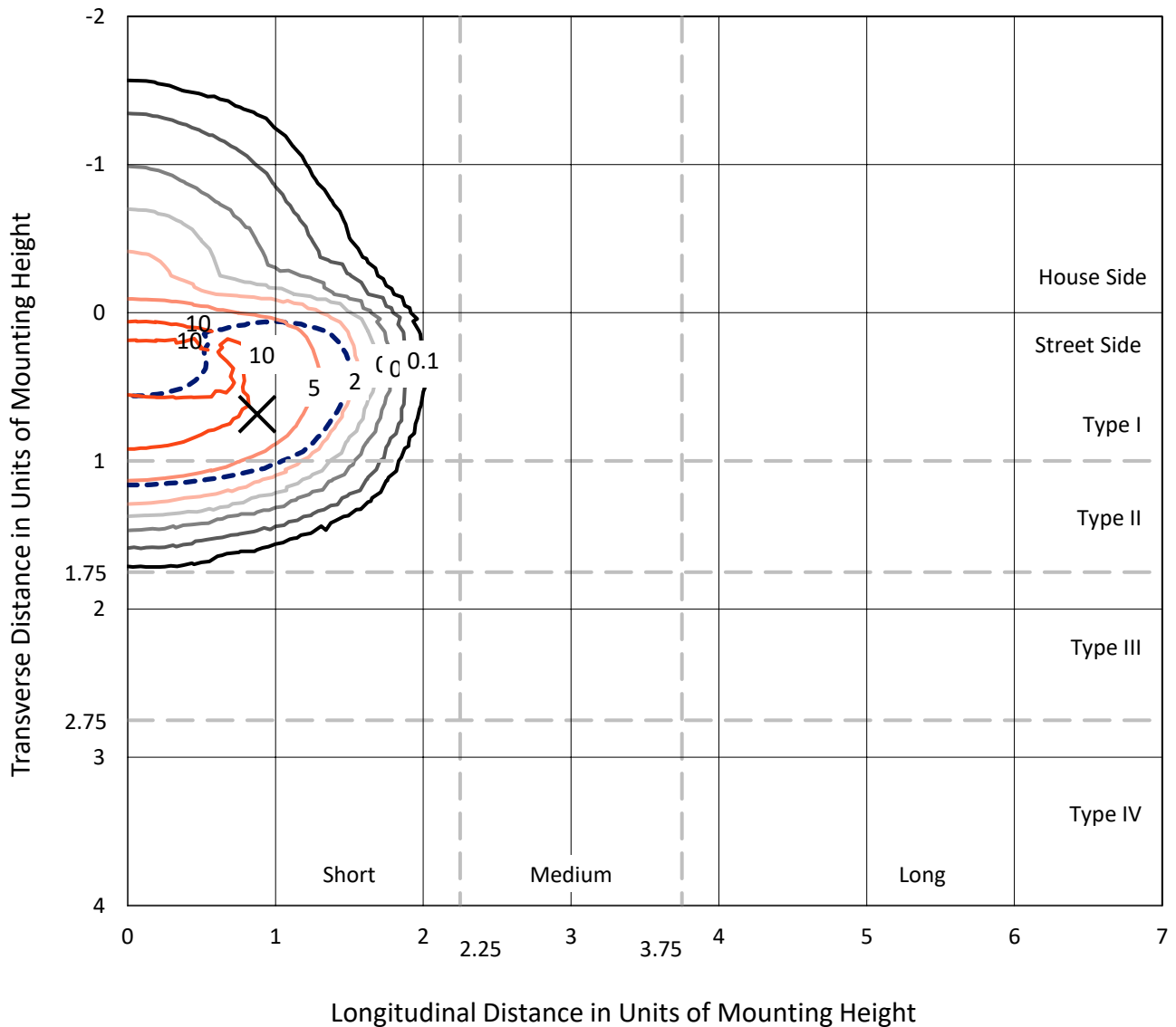
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529345
 CATALOG NUMBER: GALN-SA4C-730-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

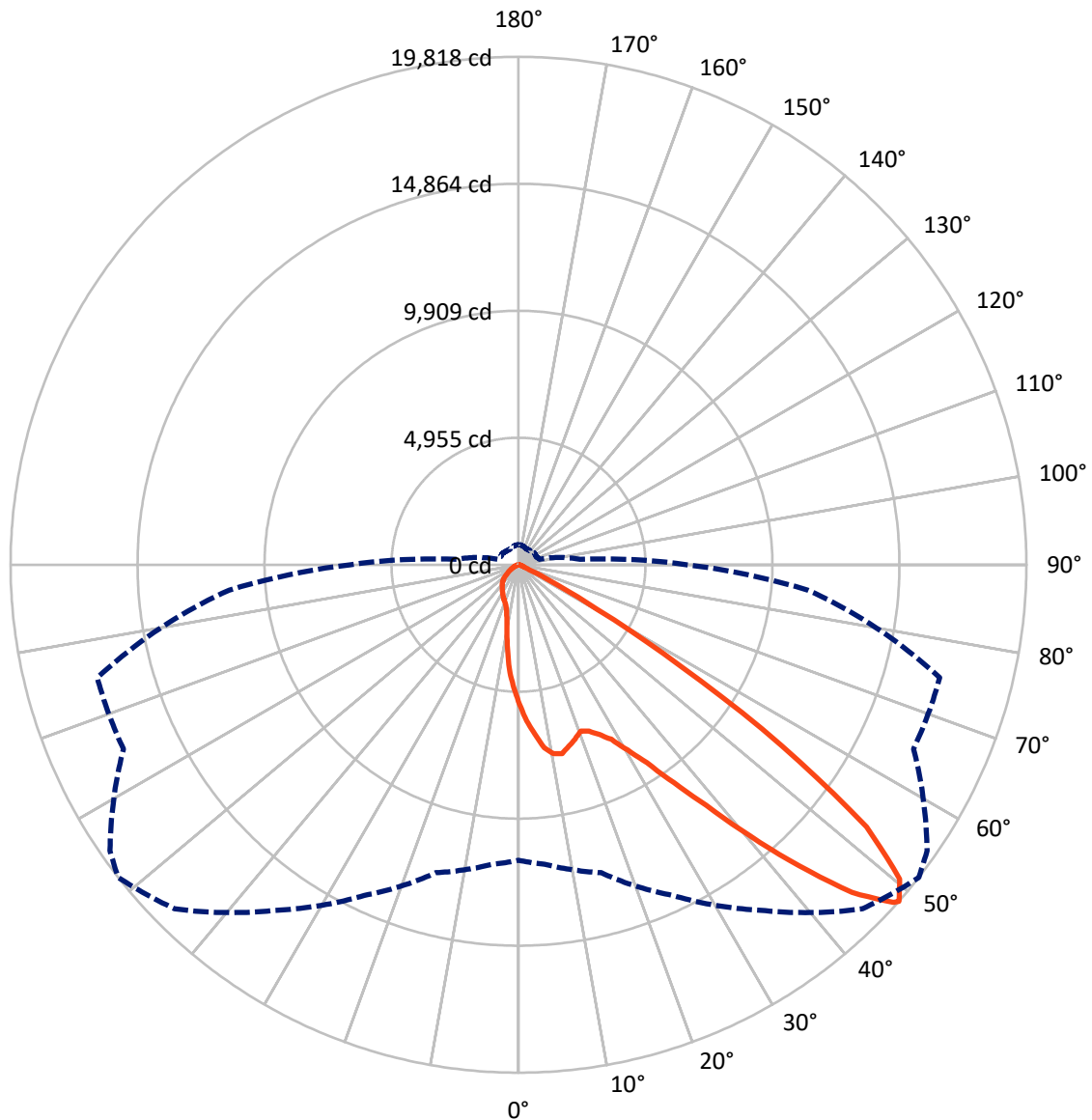
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P529345
CATALOG NUMBER: GALN-SA4C-730-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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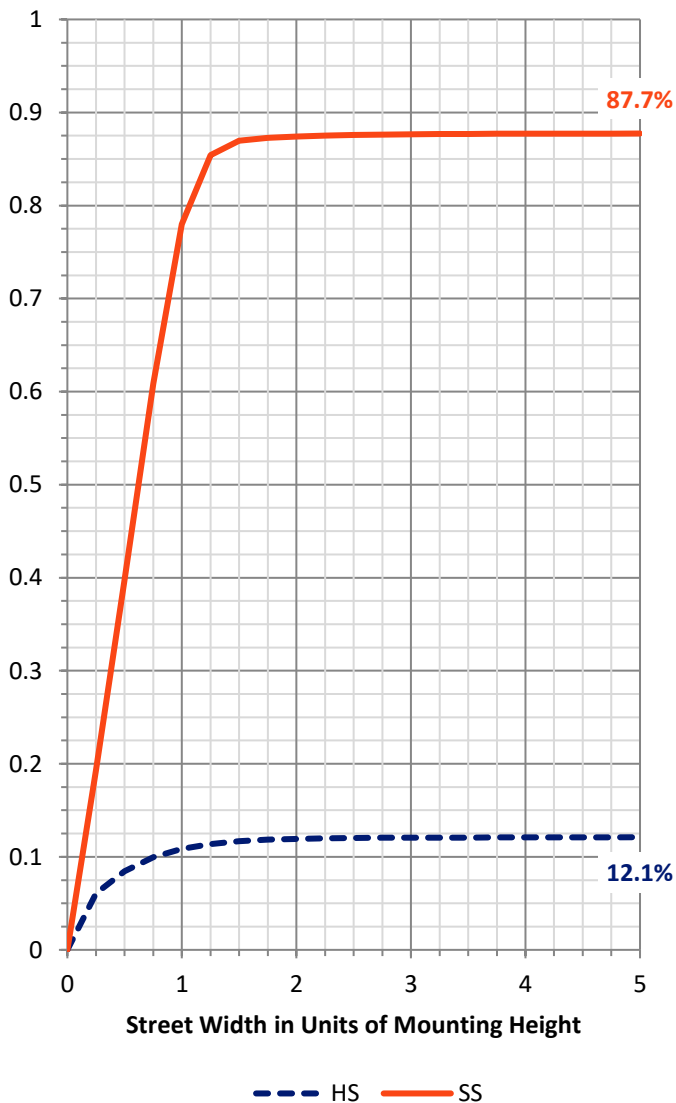
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.6	0.0	2300.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16594.4	0.0	16594.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	18895.0	0.0	18895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	2.6
10°-20°	1305.2	6.9
20°-30°	2228.5	11.8
30°-40°	4103.8	21.7
40°-50°	6373.2	33.7
50°-60°	3835.6	20.3
60°-70°	443.6	2.3
70°-80°	85.9	0.5
80°-90°	19.9	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°	18895.0	100.0
0°-180°	18895.0	100.0

Coefficient of Utilization

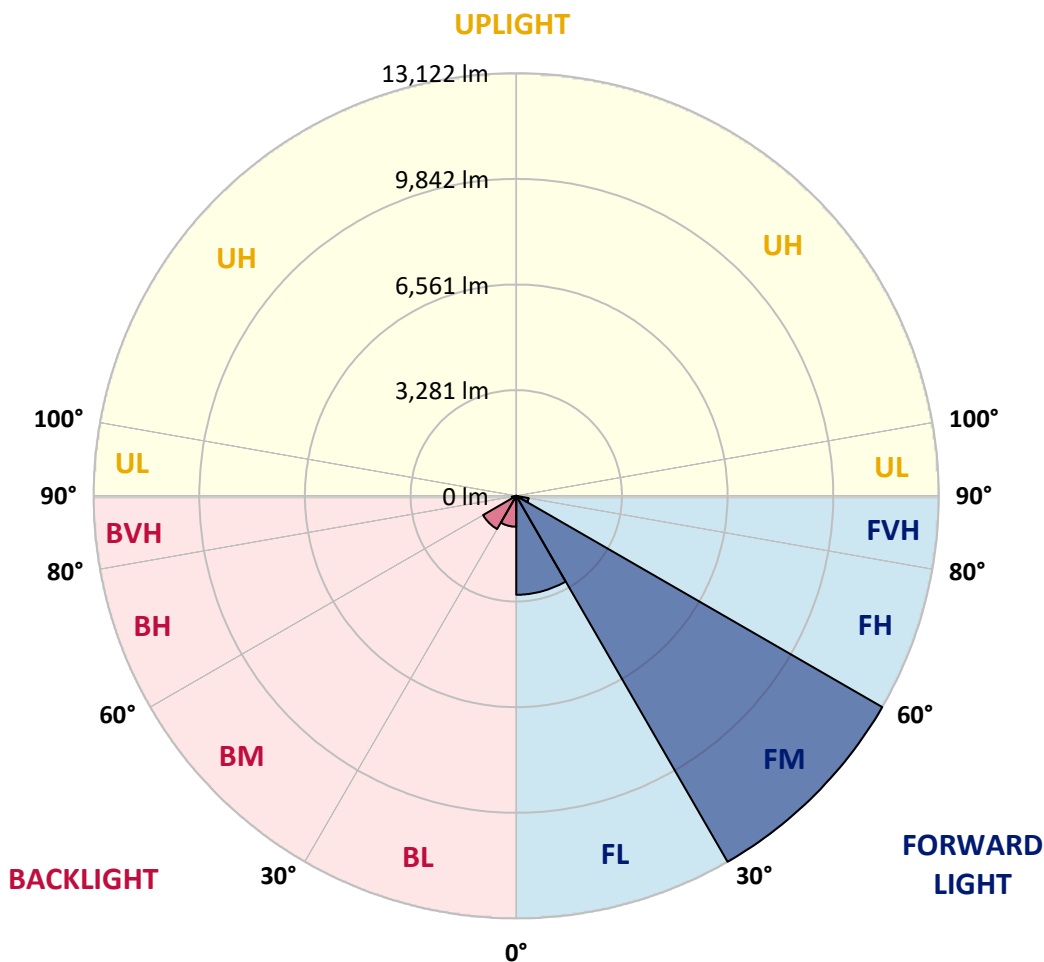


REPORT NUMBER: P529345
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3072.1	16.3			
FM (30°-60°)	13122.2	69.4			
FH (60°-80°)	390.6	2.1			G0/660
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	961.0	5.1	B2/1000		
BM (30°-60°)	1190.3	6.3	B2/2500		
BH (60°-80°)	138.9	0.7	B1/500		G1/500
BVH (80°-90°)	10.4	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





REPORT NUMBER: P529345

CATALOG NUMBER: GALN-SA4C-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6
2.5°	6613.4	6461.9	6475.7	6376.5	6318.7	6225.1	6098.3	6073.6	5935.8	5748.5	5558.5
5°	7208.4	7172.6	7219.4	7076.2	7081.7	6927.4	6630.0	6635.5	6318.7	6013.0	5718.2
7.5°	7247.0	7164.3	7211.1	7337.9	7412.2	7384.7	7216.7	7070.7	6770.4	6321.5	5891.8
10°	6489.5	6646.5	6696.1	6905.4	7202.9	7516.9	7497.6	7505.9	7255.2	6668.5	6040.5
12.5°	6035.0	5930.3	6098.3	6225.1	6674.0	7282.8	7561.0	7621.6	7640.8	7004.6	6189.2
15°	5828.4	5828.4	5856.0	5891.8	6216.8	6778.7	7346.1	7522.4	7938.3	7445.3	6423.4
17.5°	5957.9	5952.4	5990.9	5916.6	6037.8	6470.2	7147.8	7348.9	8271.6	7877.7	6607.9
20°	6351.8	6371.0	6346.2	6131.4	6139.7	6464.7	6927.4	7244.2	8497.5	8252.3	6853.1
22.5°	6899.9	6910.9	6770.4	6536.3	6467.4	6627.2	7054.1	7296.5	8679.3	8701.3	6927.4
25°	7533.4	7489.3	7461.8	7131.3	6921.9	7059.7	7340.6	7481.1	8792.2	9086.9	7139.5
27.5°	8412.1	8323.9	8155.9	7861.2	7706.9	7511.4	7712.5	7943.8	9114.5	9626.8	7370.9
30°	9709.4	9632.3	9304.5	8924.4	8519.5	8326.7	8390.0	8516.8	9695.7	10252.1	7676.6
32.5°	11662.3	11499.8	11026.1	10301.6	9750.7	9219.1	9202.6	9337.6	10216.2	11117.0	8040.2
35°	13813.6	13764.0	13067.1	12320.6	11254.7	10433.9	10447.6	10519.2	11213.4	12251.8	8516.8
37.5°	15243.1	15515.8	15072.3	14270.8	13375.6	12202.2	11904.7	11929.5	12582.3	13596.0	9376.1
40°	16347.7	16116.3	16168.6	15981.3	15369.8	14571.0	13912.7	13783.3	14166.1	15083.4	10230.0
42.5°	15865.6	15876.6	16198.9	16642.4	16793.9	16736.0	16063.9	15818.8	15521.3	16300.8	11042.6
45°	14504.9	14788.6	15207.3	16380.7	17410.9	18377.7	18245.5	17837.8	16457.8	17264.9	11510.8
47.5°	12334.4	12323.4	13009.3	14535.2	16824.2	19088.3	19688.8	19402.3	17121.7	17157.5	11414.4
48°	11532.9	11731.2	12439.1	14235.0	16452.3	18983.7	19818.3	19457.4	17008.7	17014.2	11331.8
50°	8525.0	8489.2	9370.6	11574.2	14695.0	17837.8	19272.9	19553.8	17006.0	16289.8	10753.4
52.5°	4503.5	4657.8	5299.6	7277.3	10389.8	14598.6	17000.5	17438.4	16405.5	15105.4	9921.5
55°	1914.3	1729.8	2222.8	3286.1	5844.9	9753.5	12472.1	13447.2	13871.4	13367.3	8679.3
57.5°	683.1	746.5	859.4	1236.7	2457.0	5338.1	7437.0	8194.5	9610.3	9808.6	5913.8
60°	438.0	446.2	482.0	567.4	922.7	2057.6	3528.4	4131.7	4773.5	4927.7	2760.0
62.5°	338.8	341.6	358.1	371.9	438.0	798.8	1324.9	1570.0	1630.6	1402.0	724.4
65°	283.7	286.5	292.0	292.0	311.3	374.6	462.7	509.6	495.8	490.3	410.4
67.5°	217.6	223.1	234.1	234.1	245.1	228.6	256.2	272.7	308.5	374.6	349.8
70°	170.8	173.5	181.8	187.3	187.3	165.3	184.5	201.1	225.9	278.2	275.4
72.5°	132.2	137.7	143.2	143.2	135.0	112.9	132.2	146.0	162.5	192.8	187.3
75°	101.9	101.9	104.7	85.4	66.1	57.8	79.9	96.4	121.2	126.7	104.7
77.5°	27.5	30.3	27.5	24.8	27.5	41.3	52.3	60.6	77.1	77.1	68.9
80°	0.0	2.8	8.3	16.5	27.5	38.6	46.8	52.3	60.6	66.1	63.4
82.5°	0.0	2.8	8.3	16.5	24.8	30.3	41.3	44.1	49.6	57.8	57.8
85°	0.0	2.8	5.5	11.0	16.5	19.3	19.3	16.5	16.5	13.8	11.0
87.5°	0.0	0.0	2.8	5.5	5.5	8.3	8.3	8.3	8.3	8.3	8.3
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°	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6	5456.6
2.5°	5484.1	5398.7	5269.3	5065.4	4869.9	4743.2	4622.0	4487.0	4412.6	4407.1	4365.8
5°	5550.2	5357.4	5048.9	4699.1	4324.5	4002.2	3677.2	3465.1	3275.0	3170.4	3151.1
7.5°	5586.0	5335.4	4836.8	4250.1	3611.1	3085.0	2721.4	2454.2	2349.5	2272.4	2269.7
10°	5660.4	5296.8	4520.0	3655.2	2864.6	2333.0	2082.4	1961.2	1903.3	1881.3	1848.2
12.5°	5715.5	5225.2	4195.0	3043.7	2264.2	1933.6	1823.4	1795.9	1798.7	1809.7	1795.9
15°	5792.6	5161.8	3757.1	2498.3	1900.6	1740.8	1740.8	1746.3	1784.9	1790.4	1787.6
17.5°	5787.1	5037.9	3305.3	2057.6	1680.2	1658.2	1666.4	1718.8	1743.6	1751.8	1732.5
20°	5853.2	4922.2	2839.8	1757.3	1556.3	1589.3	1644.4	1658.2	1688.5	1694.0	1672.0
22.5°	5833.9	4633.0	2407.4	1520.5	1462.6	1526.0	1581.1	1597.6	1589.3	1572.8	1570.0
25°	5798.1	4385.1	2010.7	1363.5	1393.8	1462.6	1514.9	1484.6	1468.1	1470.9	1473.6
27.5°	5734.8	4071.1	1683.0	1253.3	1300.1	1402.0	1399.3	1388.2	1404.8	1391.0	1404.8
30°	5723.7	3757.1	1413.0	1154.1	1231.2	1305.6	1311.1	1330.4	1349.7	1324.9	1349.7
32.5°	5740.3	3412.8	1220.2	1093.5	1189.9	1192.7	1253.3	1272.6	1258.8	1203.7	1209.2
35°	5867.0	3148.3	1079.7	1060.5	1123.8	1126.6	1184.4	1159.6	1099.0	1066.0	1085.3
37.5°	6134.2	2928.0	1013.6	1030.2	1035.7	1071.5	1074.2	1024.7	1030.2	1027.4	1038.4
40°	6475.7	2760.0	966.8	1002.6	997.1	1021.9	922.7	950.3	975.1	983.3	988.8
42.5°	6709.8	2638.8	936.5	958.5	947.5	903.5	848.4	875.9	895.2	925.5	931.0
45°	6814.5	2542.4	900.7	881.4	881.4	801.5	779.5	785.0	829.1	862.1	856.6
47.5°	6643.7	2448.7	837.4	779.5	798.8	732.7	707.9	707.9	754.7	796.0	787.8
48°	6577.6	2410.1	840.1	757.5	771.2	721.7	696.9	691.4	743.7	782.3	782.3
50°	6249.8	2266.9	768.5	696.9	669.3	663.8	647.3	652.8	685.9	721.7	721.7
52.5°	5610.8	1958.4	650.0	597.7	548.1	581.2	589.5	578.4	595.0	628.0	625.3
55°	4682.6	1503.9	520.6	495.8	457.2	493.0	509.6	495.8	479.3	504.1	504.1
57.5°	2999.6	809.8	415.9	421.4	382.9	418.7	432.4	399.4	369.1	388.4	385.6
60°	1352.4	484.8	341.6	333.3	308.5	349.8	371.9	333.3	292.0	305.7	319.5
62.5°	506.8	344.3	258.9	253.4	247.9	286.5	297.5	267.2	225.9	234.1	236.9
65°	371.9	303.0	206.6	187.3	198.3	225.9	220.4	190.1	162.5	162.5	168.0
67.5°	316.8	264.4	168.0	146.0	146.0	148.7	137.7	121.2	112.9	118.4	124.0
70°	247.9	209.3	132.2	112.9	101.9	90.9	79.9	77.1	68.9	77.1	74.4
72.5°	159.8	140.5	101.9	85.4	77.1	63.4	52.3	49.6	41.3	38.6	38.6
75°	85.4	85.4	79.9	68.9	60.6	49.6	41.3	33.1	22.0	16.5	16.5
77.5°	60.6	66.1	71.6	66.1	55.1	41.3	33.1	22.0	11.0	5.5	5.5
80°	57.8	66.1	71.6	63.4	55.1	41.3	30.3	16.5	8.3	2.8	2.8
82.5°	52.3	60.6	66.1	57.8	49.6	35.8	27.5	16.5	8.3	2.8	2.8
85°	11.0	13.8	16.5	16.5	19.3	24.8	19.3	13.8	5.5	2.8	2.8
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	5.5	5.5	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)