

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: P530073

Luminaire Tested: **GALN-SA5B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530073
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-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 19802 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

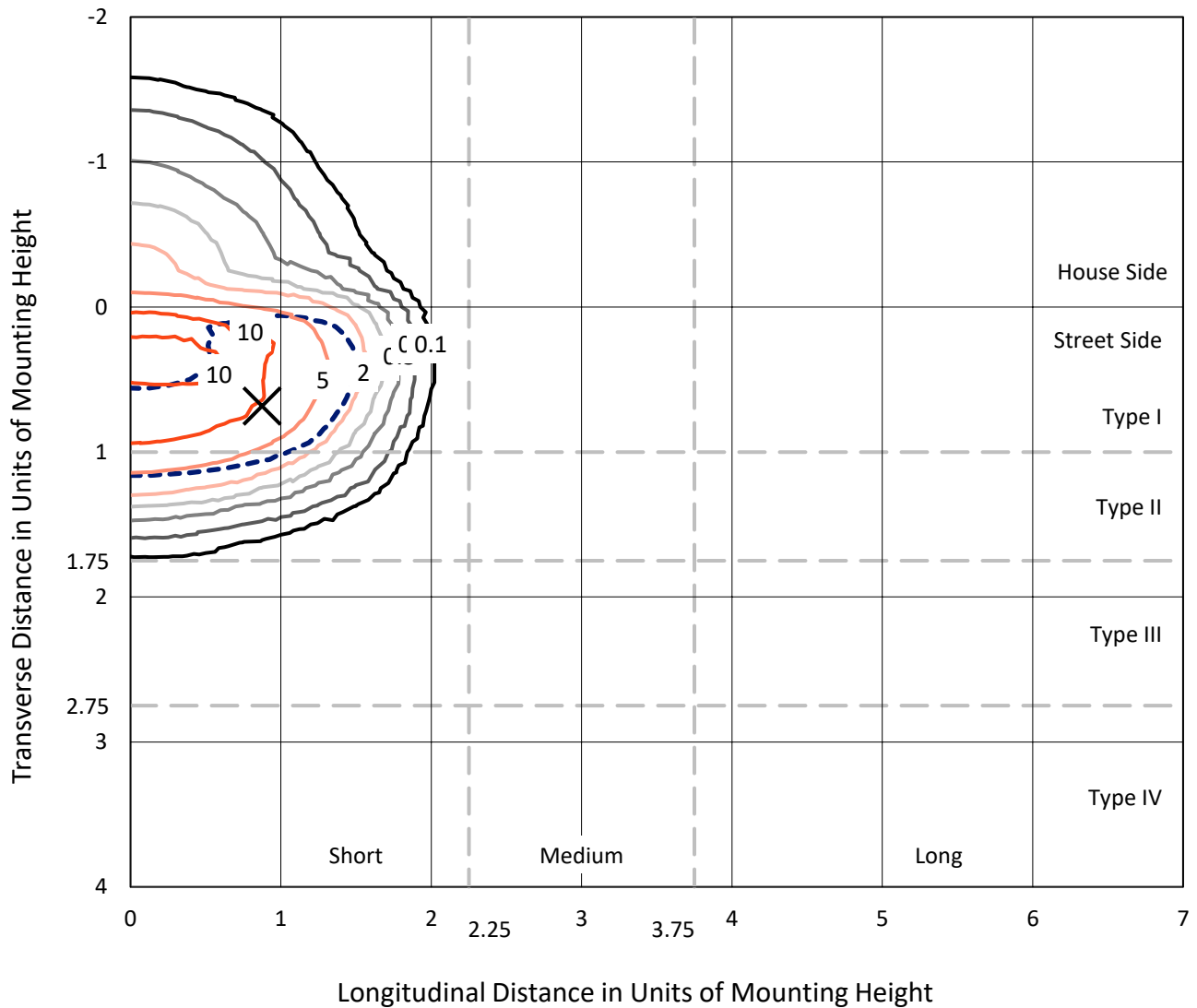
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

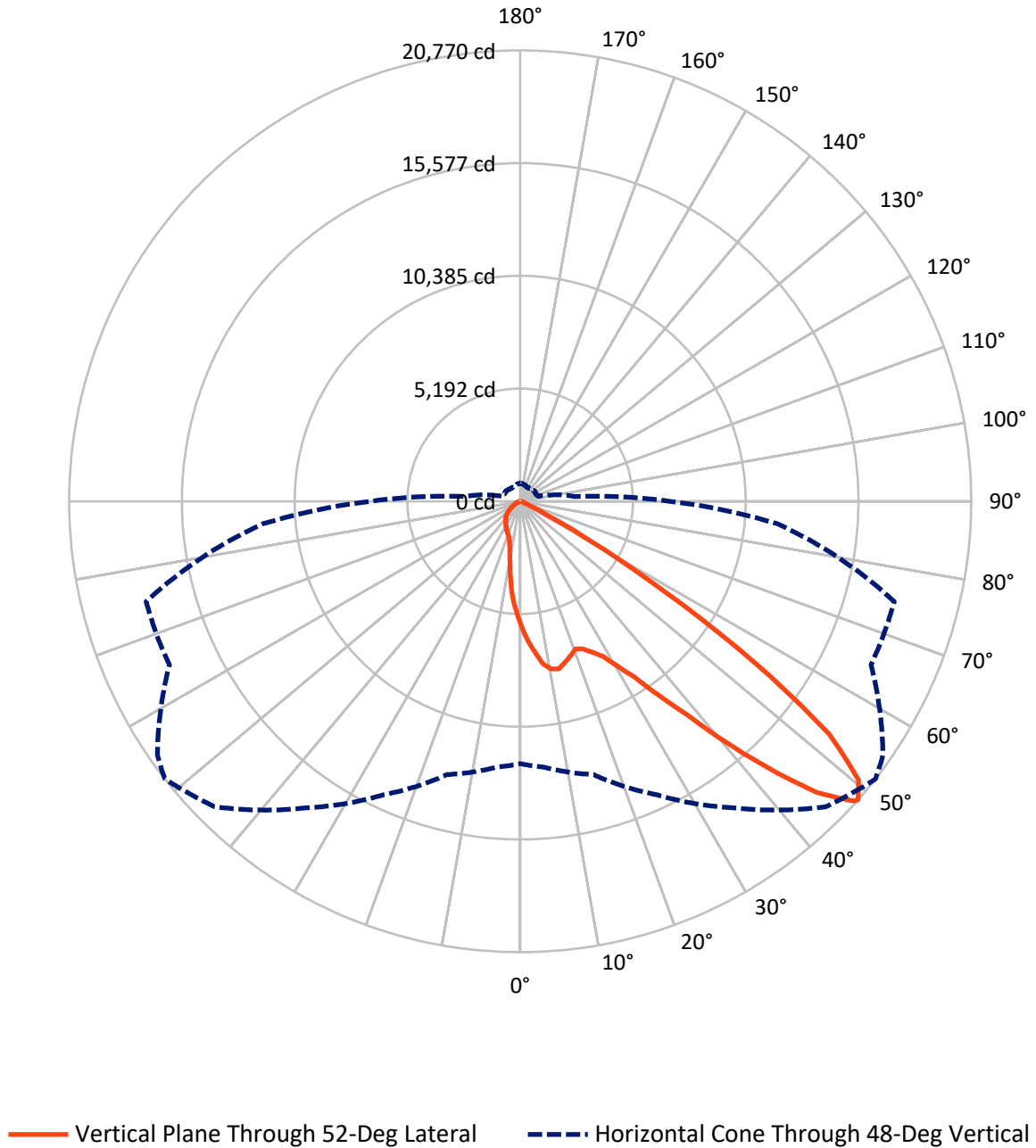
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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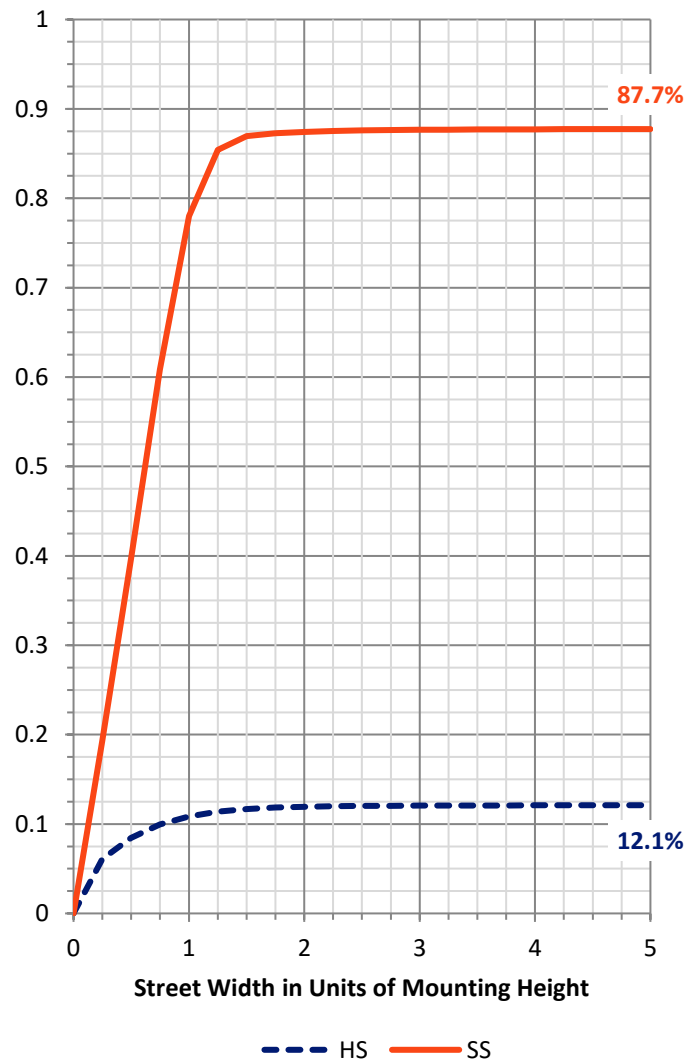
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.1	0.0	2411.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17391.0	0.0	17391.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	19802.0	0.0	19802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.4	2.6
10°-20°	1367.8	6.9
20°-30°	2335.5	11.8
30°-40°	4300.8	21.7
40°-50°	6679.1	33.7
50°-60°	4019.7	20.3
60°-70°	464.9	2.3
70°-80°	90.0	0.5
80°-90°	20.8	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°	19802.0	100.0
0°-180°	19802.0	100.0

Coefficient of Utilization



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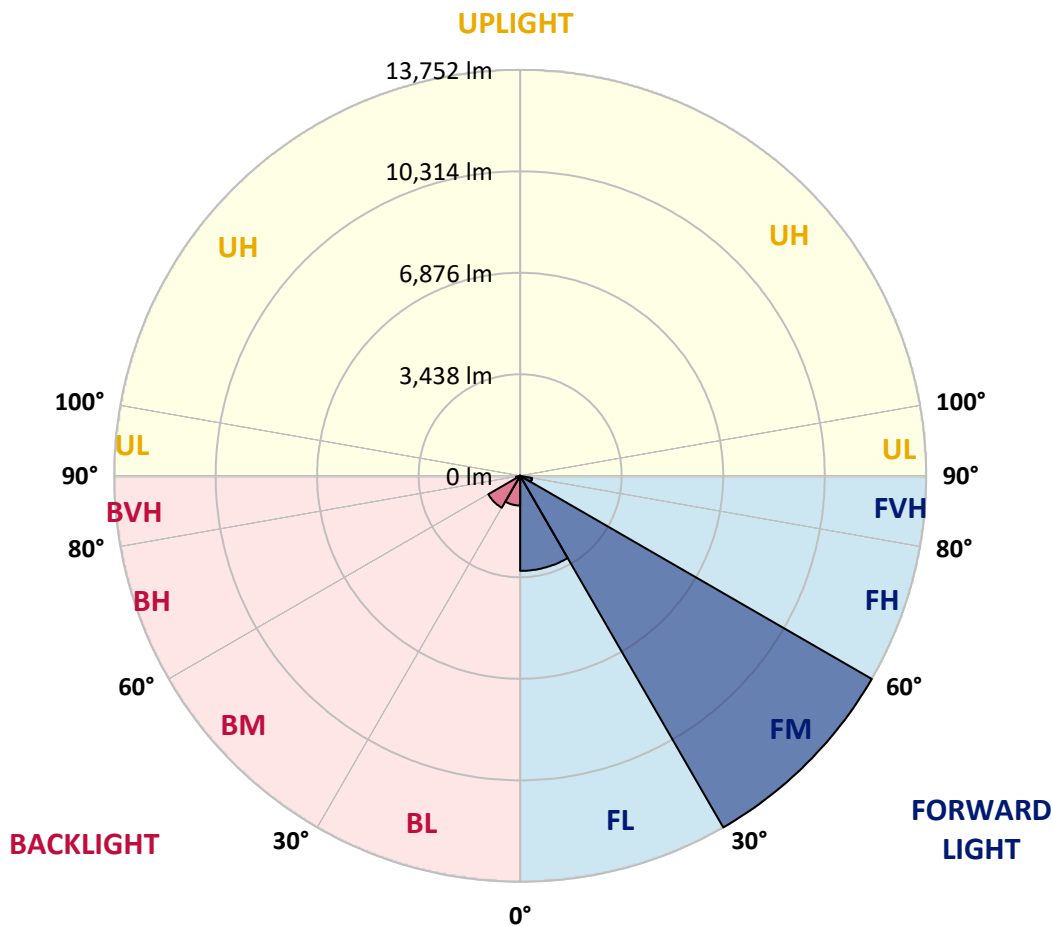
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3219.6	16.3			
FM (30°-60°)	13752.1	69.4			
FH (60°-80°)	409.4	2.1			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	1007.2	5.1	B3/2500		
BM (30°-60°)	1247.4	6.3	B2/2500		
BH (60°-80°)	145.5	0.7	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5
2.5°	6930.9	6772.1	6786.6	6682.6	6622.0	6523.9	6391.1	6365.1	6220.8	6024.5	5825.3
5°	7554.4	7516.9	7566.0	7415.8	7421.6	7260.0	6948.2	6954.0	6622.0	6301.6	5992.7
7.5°	7594.8	7508.2	7557.3	7690.1	7768.0	7739.2	7563.1	7410.1	7095.4	6624.9	6174.6
10°	6801.0	6965.5	7017.5	7236.9	7548.6	7877.7	7857.5	7866.2	7603.5	6988.6	6330.5
12.5°	6324.7	6215.0	6391.1	6523.9	6994.4	7632.3	7923.9	7987.4	8007.6	7340.8	6486.3
15°	6108.2	6108.2	6137.1	6174.6	6515.2	7104.1	7698.7	7883.5	8319.4	7802.7	6731.7
17.5°	6243.9	6238.1	6278.5	6200.6	6327.6	6780.8	7490.9	7701.6	8668.7	8255.9	6925.1
20°	6656.7	6676.9	6650.9	6425.7	6434.4	6775.0	7260.0	7591.9	8905.4	8648.5	7182.0
22.5°	7231.1	7242.6	7095.4	6850.1	6777.9	6945.3	7392.8	7646.8	9095.9	9119.0	7260.0
25°	7895.0	7848.8	7820.0	7473.6	7254.2	7398.5	7693.0	7840.2	9214.2	9523.1	7482.2
27.5°	8815.9	8723.5	8547.4	8238.5	8076.9	7871.9	8082.7	8325.1	9552.0	10088.9	7724.7
30°	10175.5	10094.7	9751.2	9352.8	8928.5	8726.4	8792.8	8925.6	10161.1	10744.2	8045.1
32.5°	12222.2	12051.8	11555.3	10796.1	10218.8	9661.7	9644.4	9785.8	10706.7	11650.6	8426.2
35°	14476.6	14424.7	13694.4	12912.1	11794.9	10934.7	10949.1	11024.2	11751.6	12839.9	8925.6
37.5°	15974.8	16260.6	15795.8	14955.8	14017.7	12787.9	12476.2	12502.2	13186.3	14248.6	9826.2
40°	17132.4	16889.9	16944.7	16748.4	16107.6	15270.5	14580.6	14444.9	14846.1	15807.4	10721.1
42.5°	16627.2	16638.8	16976.5	17441.2	17600.0	17539.4	16835.0	16578.1	16266.4	17083.3	11572.7
45°	15201.2	15498.5	15937.3	17167.0	18246.6	19259.8	19121.3	18694.1	17247.8	18093.6	12063.4
47.5°	12926.5	12915.0	13633.7	15232.9	17631.8	20004.6	20633.9	20333.7	17943.5	17981.1	11962.4
48°	12086.5	12294.3	13036.2	14918.3	17242.1	19894.9	20769.6	20391.4	17825.2	17830.9	11875.8
50°	8934.2	8896.7	9820.4	12129.8	15400.4	18694.1	20198.0	20492.5	17822.3	17071.8	11269.6
52.5°	4719.7	4881.4	5553.9	7626.6	10888.5	15299.3	17816.5	18275.5	17193.0	15830.5	10397.8
55°	2006.2	1812.8	2329.5	3443.8	6125.5	10221.7	13070.8	14092.7	14537.3	14009.0	9095.9
57.5°	715.9	782.3	900.6	1296.1	2574.9	5594.4	7794.0	8587.8	10071.6	10279.4	6197.7
60°	459.0	467.6	505.2	594.7	967.0	2156.3	3697.8	4330.0	5002.6	5164.2	2892.4
62.5°	355.1	357.9	375.3	389.7	459.0	837.1	1388.5	1645.4	1708.9	1469.3	759.2
65°	297.3	300.2	306.0	306.0	326.2	392.6	485.0	534.0	519.6	513.8	430.1
67.5°	228.0	233.8	245.4	245.4	256.9	239.6	268.5	285.8	323.3	392.6	366.6
70°	179.0	181.9	190.5	196.3	196.3	173.2	193.4	210.7	236.7	291.6	288.7
72.5°	138.6	144.3	150.1	150.1	141.4	118.4	138.6	153.0	170.3	202.1	196.3
75°	106.8	106.8	109.7	89.5	69.3	60.6	83.7	101.0	127.0	132.8	109.7
77.5°	28.9	31.8	28.9	26.0	28.9	43.3	54.8	63.5	80.8	80.8	72.2
80°	0.0	2.9	8.7	17.3	28.9	40.4	49.1	54.8	63.5	69.3	66.4
82.5°	0.0	2.9	8.7	17.3	26.0	31.8	43.3	46.2	52.0	60.6	60.6
85°	0.0	2.9	5.8	11.5	17.3	20.2	20.2	17.3	17.3	14.4	11.5
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7
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°	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5	5718.5
2.5°	5747.4	5657.9	5522.2	5308.6	5103.6	4970.8	4843.8	4702.4	4624.4	4618.7	4575.4
5°	5816.6	5614.6	5291.3	4924.7	4532.1	4194.3	3853.7	3631.4	3432.2	3322.6	3302.3
7.5°	5854.2	5591.5	5069.0	4454.1	3784.4	3233.1	2852.0	2572.0	2462.3	2381.5	2378.6
10°	5932.1	5551.1	4737.0	3830.6	3002.1	2445.0	2182.3	2055.3	1994.7	1971.6	1937.0
12.5°	5989.8	5476.0	4396.4	3189.8	2372.8	2026.4	1911.0	1882.1	1885.0	1896.5	1882.1
15°	6070.7	5409.6	3937.4	2618.2	1991.8	1824.4	1824.4	1830.1	1870.6	1876.3	1873.4
17.5°	6064.9	5279.7	3464.0	2156.3	1760.9	1737.8	1746.4	1801.3	1827.3	1835.9	1815.7
20°	6134.2	5158.5	2976.2	1841.7	1631.0	1665.6	1723.3	1737.8	1769.5	1775.3	1752.2
22.5°	6114.0	4855.4	2522.9	1593.4	1532.8	1599.2	1656.9	1674.3	1665.6	1648.3	1645.4
25°	6076.4	4595.6	2107.3	1428.9	1460.7	1532.8	1587.7	1555.9	1538.6	1541.5	1544.4
27.5°	6010.0	4266.5	1763.8	1313.4	1362.5	1469.3	1466.4	1454.9	1472.2	1457.8	1472.2
30°	5998.5	3937.4	1480.9	1209.5	1290.3	1368.3	1374.1	1394.3	1414.5	1388.5	1414.5
32.5°	6015.8	3576.6	1278.8	1146.0	1247.0	1249.9	1313.4	1333.6	1319.2	1261.5	1267.2
35°	6148.6	3299.5	1131.6	1111.4	1177.8	1180.6	1241.3	1215.3	1151.8	1117.1	1137.3
37.5°	6428.6	3068.5	1062.3	1079.6	1085.4	1122.9	1125.8	1073.8	1079.6	1076.7	1088.3
40°	6786.6	2892.4	1013.2	1050.7	1045.0	1071.0	967.0	995.9	1021.9	1030.5	1036.3
42.5°	7031.9	2765.4	981.5	1004.6	993.0	946.8	889.1	918.0	938.2	969.9	975.7
45°	7141.6	2664.4	943.9	923.7	923.7	840.0	816.9	822.7	868.9	903.5	897.8
47.5°	6962.6	2566.2	877.5	816.9	837.1	767.9	741.9	741.9	790.9	834.2	825.6
48°	6893.4	2525.8	880.4	793.8	808.3	756.3	730.3	724.6	779.4	819.8	819.8
50°	6549.8	2375.7	805.4	730.3	701.5	695.7	678.4	684.1	718.8	756.3	756.3
52.5°	5880.1	2052.4	681.3	626.4	574.4	609.1	617.7	606.2	623.5	658.2	655.3
55°	4907.3	1576.1	545.6	519.6	479.2	516.7	534.0	519.6	502.3	528.3	528.3
57.5°	3143.6	848.7	435.9	441.7	401.2	438.8	453.2	418.6	386.8	407.0	404.1
60°	1417.4	508.1	357.9	349.3	323.3	366.6	389.7	349.3	306.0	320.4	334.9
62.5°	531.1	360.8	271.3	265.6	259.8	300.2	311.8	280.0	236.7	245.4	248.3
65°	389.7	317.5	216.5	196.3	207.8	236.7	230.9	199.2	170.3	170.3	176.1
67.5°	332.0	277.1	176.1	153.0	153.0	155.9	144.3	127.0	118.4	124.1	129.9
70°	259.8	219.4	138.6	118.4	106.8	95.3	83.7	80.8	72.2	80.8	77.9
72.5°	167.4	147.2	106.8	89.5	80.8	66.4	54.8	52.0	43.3	40.4	40.4
75°	89.5	89.5	83.7	72.2	63.5	52.0	43.3	34.6	23.1	17.3	17.3
77.5°	63.5	69.3	75.1	69.3	57.7	43.3	34.6	23.1	11.5	5.8	5.8
80°	60.6	69.3	75.1	66.4	57.7	43.3	31.8	17.3	8.7	2.9	2.9
82.5°	54.8	63.5	69.3	60.6	52.0	37.5	28.9	17.3	8.7	2.9	2.9
85°	11.5	14.4	17.3	17.3	20.2	26.0	20.2	14.4	5.8	2.9	2.9
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	2.9	2.9	2.9
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)