

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: P652047

Luminaire Tested: **GALN-SA8A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652047
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-SA8A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA 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: 23167.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

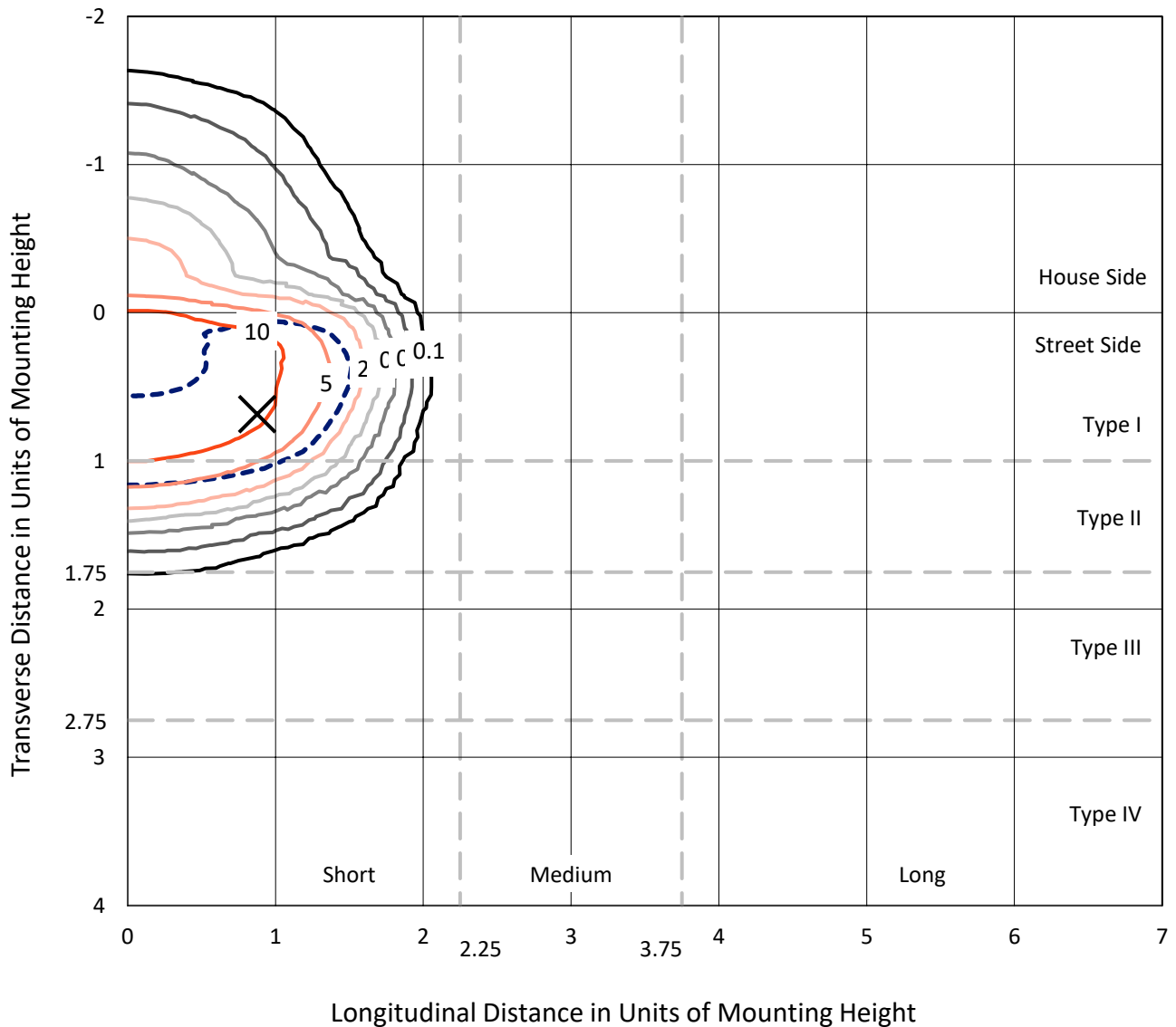
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

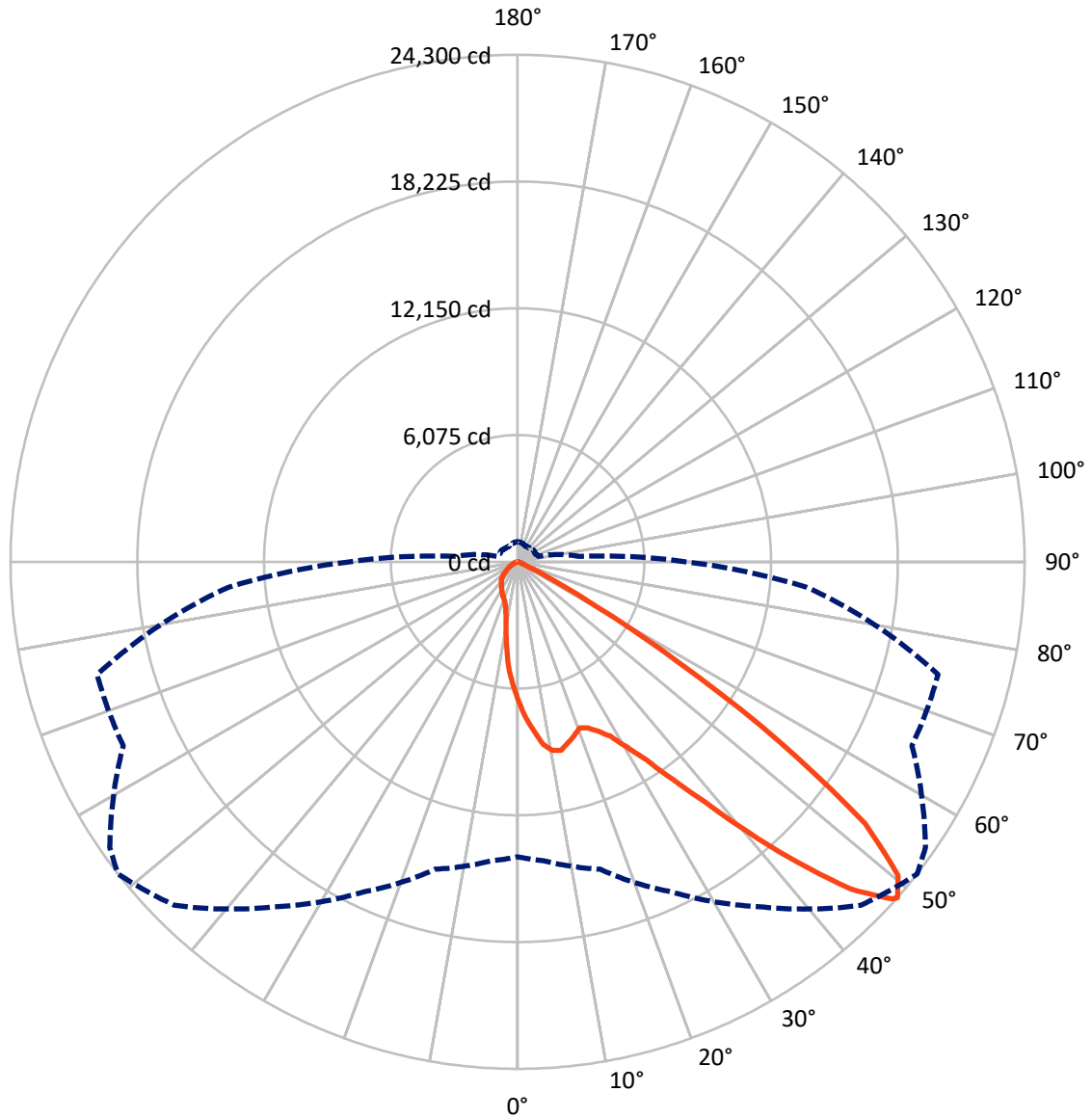
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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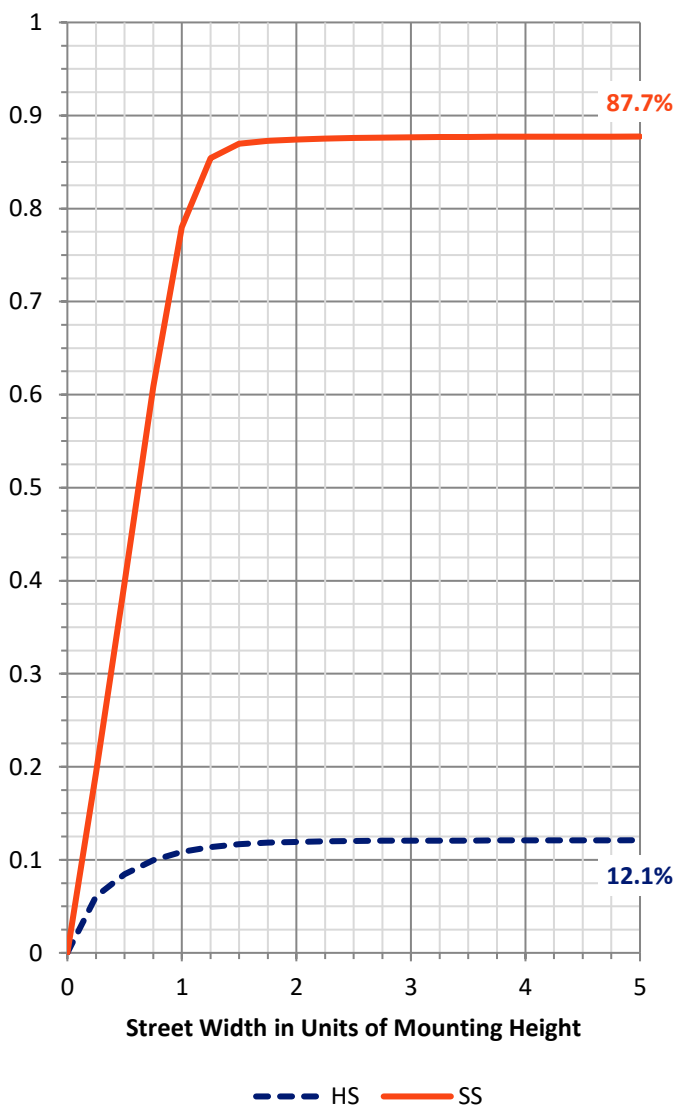
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2820.9	0.0	2820.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20347.0	0.0	20347.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	23167.9	0.0	23167.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	2.6
10°-20°	1600.3	6.9
20°-30°	2732.4	11.8
30°-40°	5031.8	21.7
40°-50°	7814.4	33.7
50°-60°	4702.9	20.3
60°-70°	543.9	2.3
70°-80°	105.3	0.5
80°-90°	24.3	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°	23167.9	100.0
0°-180°	23167.9	100.0

Coefficient of Utilization

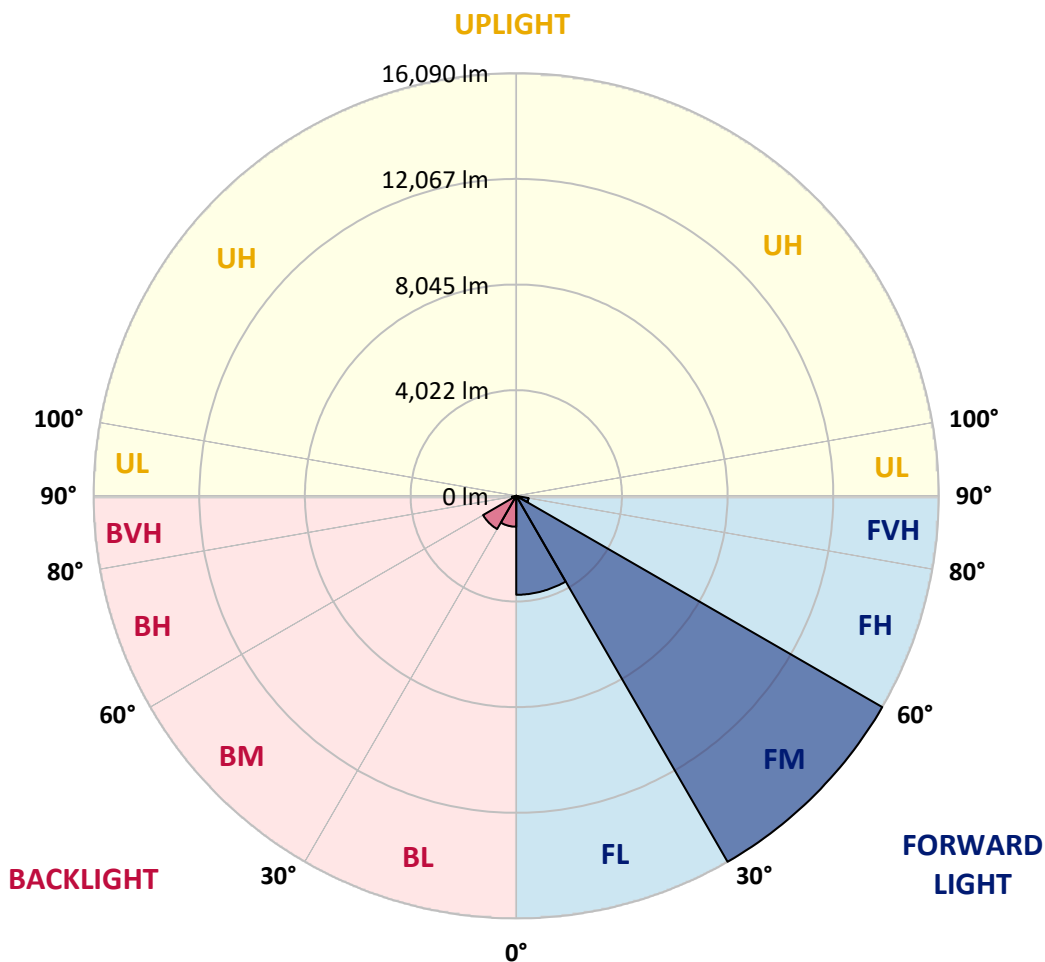


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.8	16.3			
FM (30°-60°)	16089.6	69.4			
FH (60°-80°)	479.0	2.1			G0/660
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1178.4	5.1	B3/2500		
BM (30°-60°)	1459.5	6.3	B2/2500		
BH (60°-80°)	170.2	0.7	B1/500		G1/500
BVH (80°-90°)	12.8	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°	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5
2.5°	8109.0	7923.2	7940.1	7818.5	7747.6	7632.7	7477.4	7447.1	7278.2	7048.5	6815.5
5°	8838.5	8794.6	8852.0	8676.3	8683.2	8494.0	8129.3	8136.0	7747.6	7372.7	7011.3
7.5°	8885.8	8784.4	8841.9	8997.2	9088.4	9054.6	8848.6	8669.6	8301.5	7751.0	7224.1
10°	7957.0	8149.5	8210.3	8466.9	8831.8	9216.8	9193.1	9203.2	8895.9	8176.5	7406.5
12.5°	7399.7	7271.4	7477.4	7632.7	8183.3	8929.7	9270.8	9345.1	9368.7	8588.5	7588.8
15°	7146.4	7146.4	7180.2	7224.1	7622.7	8311.6	9007.4	9223.5	9733.5	9129.0	7876.0
17.5°	7305.2	7298.5	7345.7	7254.6	7403.1	7933.3	8764.1	9010.7	10142.1	9659.1	8102.2
20°	7788.2	7811.8	7781.4	7518.0	7528.0	7926.6	8494.0	8882.4	10419.1	10118.5	8402.8
22.5°	8460.2	8473.7	8301.5	8014.4	7930.0	8125.8	8649.3	8946.6	10642.0	10669.0	8494.0
25°	9237.0	9183.0	9149.2	8743.9	8487.2	8656.1	9000.6	9172.9	10780.4	11141.8	8754.1
27.5°	10314.4	10206.3	10000.2	9638.9	9449.8	9210.0	9456.5	9740.2	11175.6	11803.8	9037.7
30°	11905.1	11810.5	11408.7	10942.6	10446.1	10209.7	10287.4	10442.7	11888.2	12570.4	9412.6
32.5°	14299.6	14100.4	13519.5	12631.2	11955.7	11304.0	11283.7	11449.1	12526.5	13630.9	9858.5
35°	16937.3	16876.5	16022.1	15106.8	13799.8	12793.4	12810.2	12898.0	13749.1	15022.4	10442.7
37.5°	18690.1	19024.5	18480.7	17497.9	16400.3	14961.6	14596.8	14627.3	15427.6	16670.6	11496.5
40°	20044.5	19760.8	19825.0	19595.3	18845.5	17866.1	17058.9	16900.1	17369.6	18494.3	12543.4
42.5°	19453.4	19467.0	19862.1	20405.9	20591.6	20520.7	19696.6	19396.0	19031.2	19987.0	13539.8
45°	17785.0	18132.9	18646.2	20085.0	21348.1	22533.6	22371.4	21871.6	20179.5	21169.1	14113.8
47.5°	15123.7	15110.2	15951.2	17822.2	20628.7	23404.9	24141.2	23790.0	20993.5	21037.4	13995.7
48°	14140.9	14384.0	15252.0	17454.0	20172.8	23276.6	24299.9	23857.5	20855.0	20861.8	13894.3
50°	10452.9	10409.0	11489.7	14191.5	18018.1	21871.6	23631.2	23975.6	20851.7	19973.6	13185.1
52.5°	5521.9	5711.1	6498.0	8922.9	12739.3	17899.8	20844.9	21381.9	20115.4	18521.3	12165.1
55°	2347.2	2121.0	2725.5	4029.1	7166.7	11959.1	15292.6	16488.1	17008.2	16390.2	10642.0
57.5°	837.6	915.3	1053.7	1516.4	3012.5	6545.3	9118.8	10047.6	11783.5	12026.7	7251.1
60°	537.0	547.2	591.1	695.8	1131.4	2522.8	4326.4	5066.0	5852.9	6042.1	3384.1
62.5°	415.4	418.8	439.1	455.9	537.0	979.4	1624.5	1925.0	1999.4	1719.1	888.3
65°	347.8	351.2	358.0	358.0	381.6	459.4	567.4	624.8	608.0	601.1	503.3
67.5°	266.8	273.6	287.0	287.0	300.6	280.3	314.1	334.4	378.3	459.4	428.9
70°	209.4	212.8	222.9	229.7	229.7	202.7	226.3	246.6	276.9	341.1	337.7
72.5°	162.1	168.9	175.6	175.6	165.5	138.4	162.1	179.0	199.2	236.4	229.7
75°	125.0	125.0	128.3	104.7	81.1	70.9	98.0	118.2	148.6	155.3	128.3
77.5°	33.8	37.2	33.8	30.4	33.8	50.6	64.2	74.3	94.5	94.5	84.4
80°	0.0	3.4	10.1	20.3	33.8	47.3	57.4	64.2	74.3	81.1	77.7
82.5°	0.0	3.4	10.1	20.3	30.4	37.2	50.6	54.1	60.8	70.9	70.9
85°	0.0	3.4	6.7	13.5	20.3	23.6	23.6	20.3	20.3	16.9	13.5
87.5°	0.0	0.0	3.4	6.7	6.7	10.1	10.1	10.1	10.1	10.1	10.1
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°	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5	6690.5
2.5°	6724.3	6619.6	6460.8	6211.0	5971.1	5815.8	5667.2	5501.7	5410.5	5403.8	5353.0
5°	6805.3	6568.9	6190.7	5761.7	5302.4	4907.2	4508.8	4248.6	4015.6	3887.3	3863.6
7.5°	6849.2	6541.9	5930.6	5211.3	4427.7	3782.6	3336.8	3009.2	2880.8	2786.3	2783.0
10°	6940.4	6494.6	5542.2	4481.7	3512.4	2860.6	2553.3	2404.7	2333.8	2306.7	2266.2
12.5°	7008.0	6406.8	5143.6	3731.9	2776.1	2370.9	2235.8	2202.0	2205.4	2218.9	2202.0
15°	7102.5	6329.1	4606.7	3063.3	2330.3	2134.5	2134.5	2141.3	2188.5	2195.3	2191.9
17.5°	7095.8	6177.1	4052.8	2522.8	2060.2	2033.1	2043.3	2107.5	2137.8	2148.0	2124.4
20°	7176.8	6035.3	3482.0	2154.7	1908.2	1948.7	2016.3	2033.1	2070.3	2077.0	2050.0
22.5°	7153.2	5680.7	2951.8	1864.3	1793.3	1871.1	1938.6	1958.9	1948.7	1928.5	1925.0
25°	7109.3	5376.7	2465.5	1671.7	1708.9	1793.3	1857.5	1820.3	1800.1	1803.5	1806.9
27.5°	7031.6	4991.7	2063.6	1536.7	1594.1	1719.1	1715.7	1702.2	1722.5	1705.5	1722.5
30°	7018.1	4606.7	1732.5	1415.1	1509.7	1600.8	1607.6	1631.3	1654.9	1624.5	1654.9
32.5°	7038.3	4184.5	1496.1	1340.8	1459.0	1462.4	1536.7	1560.3	1543.4	1475.9	1482.7
35°	7193.7	3860.3	1323.9	1300.3	1378.0	1381.3	1452.2	1421.9	1347.5	1307.0	1330.6
37.5°	7521.3	3590.1	1242.8	1263.1	1269.9	1313.8	1317.2	1256.4	1263.1	1259.7	1273.3
40°	7940.1	3384.1	1185.5	1229.4	1222.6	1253.0	1131.4	1165.2	1195.6	1205.7	1212.5
42.5°	8227.2	3235.5	1148.3	1175.3	1161.8	1107.8	1040.2	1074.0	1097.7	1134.8	1141.6
45°	8355.5	3117.3	1104.4	1080.8	1080.8	982.8	955.8	962.5	1016.6	1057.1	1050.3
47.5°	8146.1	3002.5	1026.7	955.8	979.4	898.4	868.0	868.0	925.4	976.1	965.9
48°	8065.1	2955.2	1030.1	928.8	945.6	884.9	854.5	847.7	911.9	959.2	959.2
50°	7663.2	2779.5	942.3	854.5	820.7	813.9	793.7	800.5	840.9	884.9	884.9
52.5°	6879.6	2401.3	797.0	732.8	672.1	712.6	722.8	709.2	729.5	770.0	766.7
55°	5741.5	1844.1	638.3	608.0	560.6	604.5	624.8	608.0	587.7	618.1	618.1
57.5°	3677.9	993.0	510.0	516.7	469.4	513.3	530.3	489.7	452.5	476.2	472.8
60°	1658.3	594.4	418.8	408.6	378.3	428.9	455.9	408.6	358.0	374.9	391.7
62.5°	621.4	422.2	317.5	310.7	303.9	351.2	364.7	327.6	276.9	287.0	290.5
65°	455.9	371.5	253.3	229.7	243.1	276.9	270.2	233.0	199.2	199.2	206.0
67.5°	388.4	324.2	206.0	179.0	179.0	182.4	168.9	148.6	138.4	145.2	152.0
70°	303.9	256.7	162.1	138.4	125.0	111.4	98.0	94.5	84.4	94.5	91.2
72.5°	195.9	172.2	125.0	104.7	94.5	77.7	64.2	60.8	50.6	47.3	47.3
75°	104.7	104.7	98.0	84.4	74.3	60.8	50.6	40.5	27.0	20.3	20.3
77.5°	74.3	81.1	87.8	81.1	67.5	50.6	40.5	27.0	13.5	6.7	6.7
80°	70.9	81.1	87.8	77.7	67.5	50.6	37.2	20.3	10.1	3.4	3.4
82.5°	64.2	74.3	81.1	70.9	60.8	43.9	33.8	20.3	10.1	3.4	3.4
85°	13.5	16.9	20.3	20.3	23.6	30.4	23.6	16.9	6.7	3.4	3.4
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	6.7	6.7	3.4	3.4	3.4
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)