

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: P652058

Luminaire Tested: **GALN-SA8A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18162.2 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

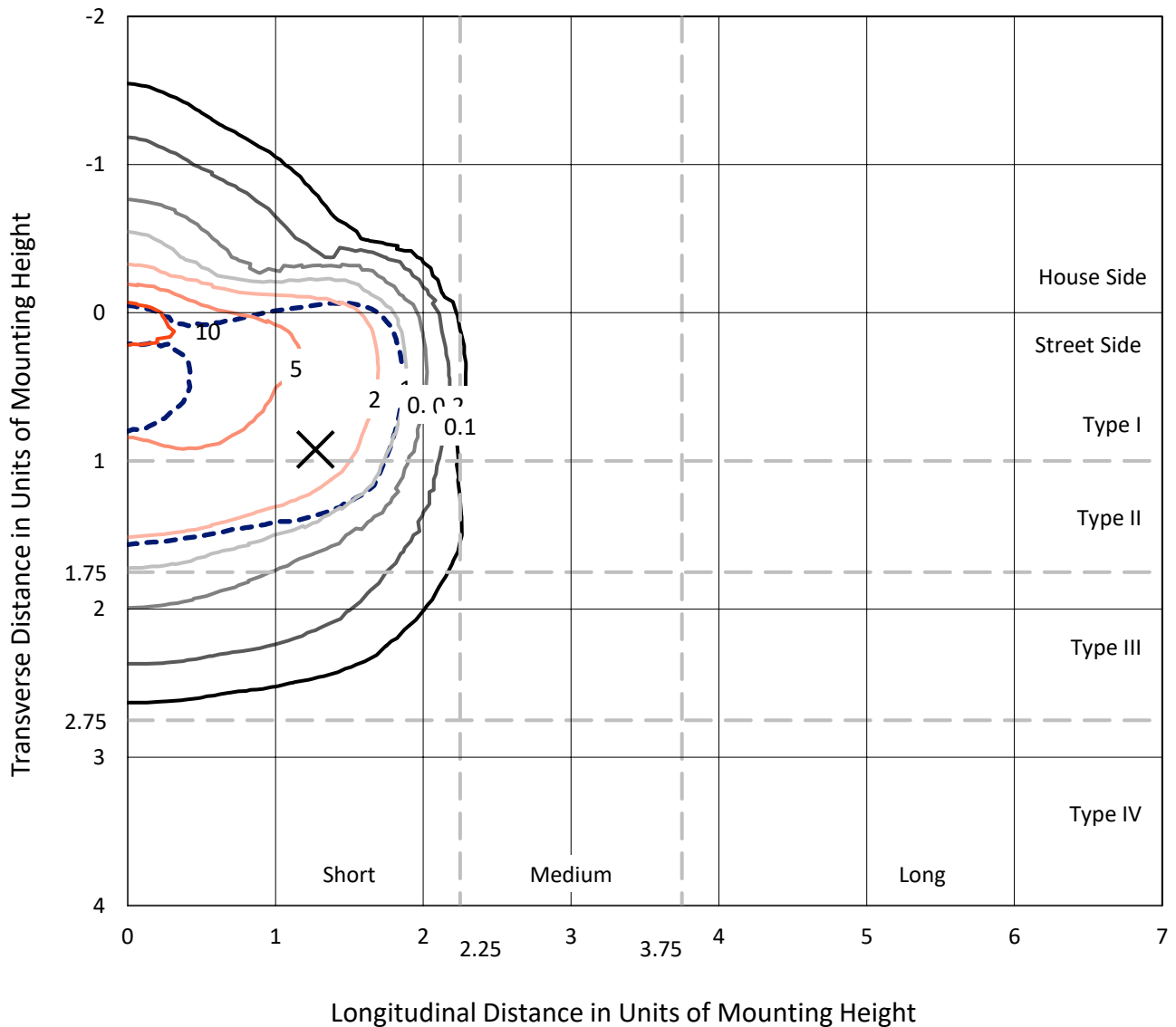
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652058
 CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

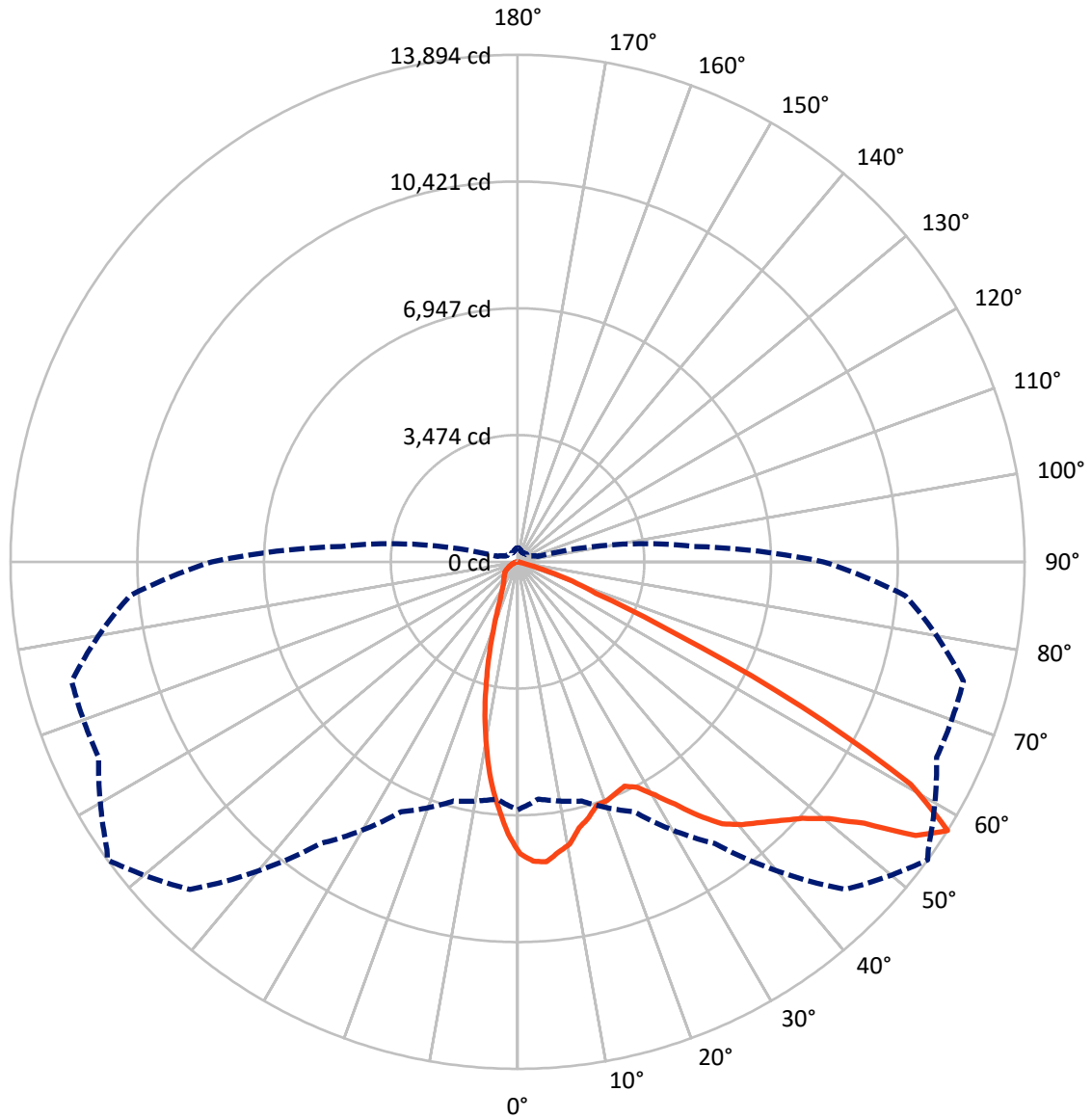
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P652058
CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

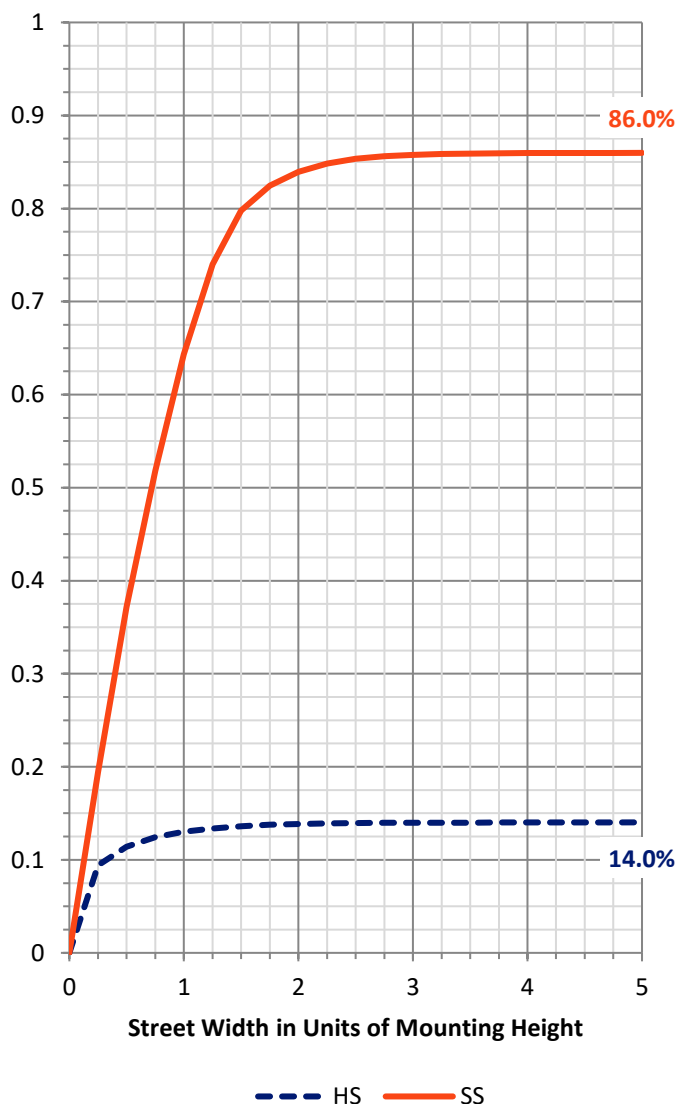
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.6	0.0	2566.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15595.6	0.0	15595.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	18162.2	0.0	18162.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	3.7
10°-20°	1429.4	7.9
20°-30°	1894.2	10.4
30°-40°	2752.9	15.2
40°-50°	4082.1	22.5
50°-60°	5104.5	28.1
60°-70°	2013.5	11.1
70°-80°	200.5	1.1
80°-90°	15.6	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°	18162.2	100.0
0°-180°	18162.2	100.0

Coefficient of Utilization



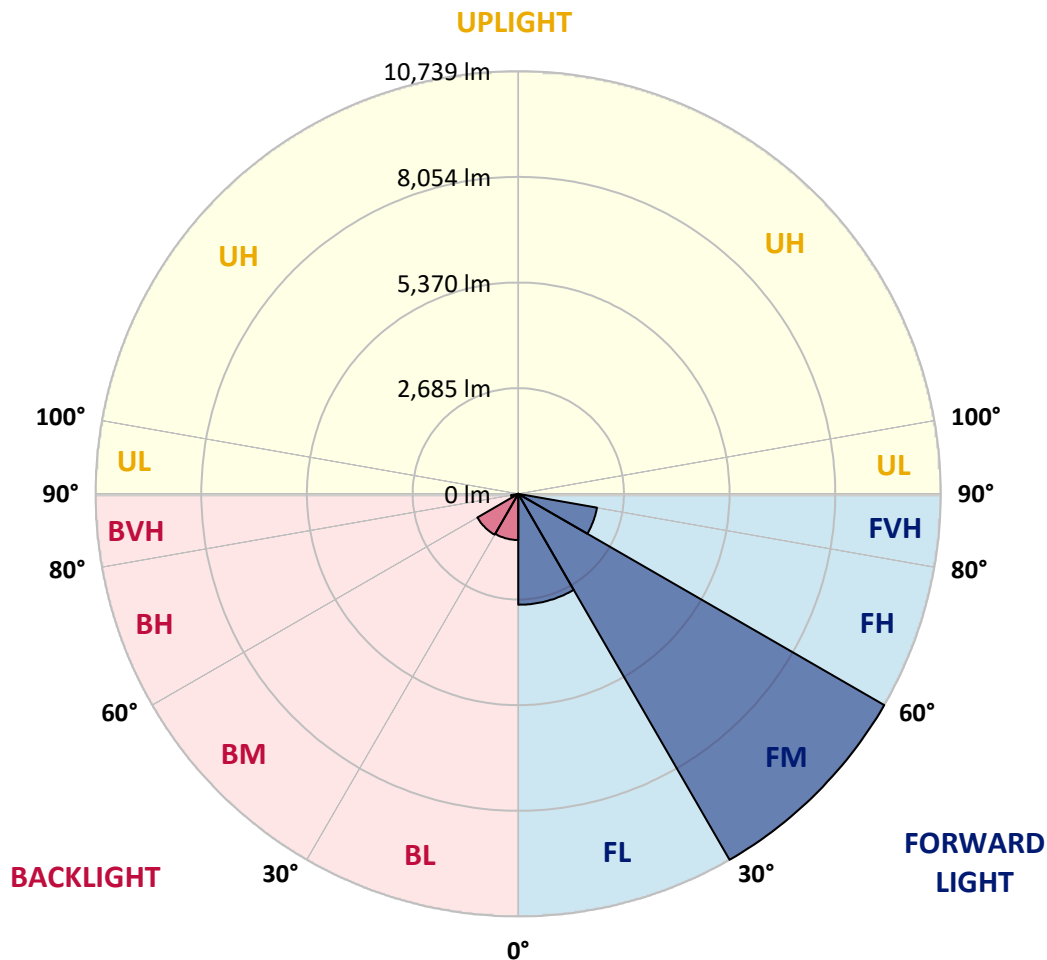
REPORT NUMBER: P652058
 CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2819.3	15.5			
FM (30°-60°)	10739.3	59.1			
FH (60°-80°)	2029.9	11.2			G2/5000
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1173.9	6.5	B3/2500		
BM (30°-60°)	1200.2	6.6	B2/2500		
BH (60°-80°)	184.0	1.0	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
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





REPORT NUMBER: P652058

CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7
2.5°	8466.8	8379.0	8385.7	8355.3	8314.8	8345.2	8213.5	8243.9	8240.5	8061.5	7943.3
5°	8254.0	8348.6	8250.6	8331.7	8254.0	8338.4	8257.4	8196.6	8098.7	7967.0	7747.4
7.5°	7892.6	7801.5	7828.4	7929.8	7946.7	8135.8	8034.5	8112.1	8071.7	7811.5	7511.0
10°	7166.5	7146.2	7281.4	7416.4	7582.0	7784.5	7862.3	7818.4	7787.9	7690.0	7288.1
12.5°	6609.3	6666.7	6663.3	6886.2	7166.5	7281.4	7484.0	7477.2	7646.1	7463.7	7078.7
15°	6079.1	6109.4	6251.3	6389.7	6700.5	7028.1	7278.0	7311.7	7514.4	7386.1	6916.6
17.5°	5754.9	5710.9	5822.4	5987.8	6305.3	6734.2	7011.2	7092.2	7369.2	7342.2	6730.9
20°	5434.0	5434.0	5525.2	5721.1	6011.5	6494.5	6987.5	6963.9	7369.2	7291.5	6531.6
22.5°	5325.9	5380.0	5403.6	5552.2	5896.7	6312.1	6886.2	6930.1	7426.6	7267.8	6443.8
25°	5474.5	5403.6	5410.3	5528.6	5852.8	6224.2	6811.9	6909.8	7531.2	7386.1	6372.8
27.5°	5498.2	5569.1	5589.4	5670.4	5886.6	6251.3	6997.6	7196.9	7791.4	7663.0	6393.1
30°	5704.2	5775.1	5771.7	5910.2	6058.8	6470.8	7413.1	7453.6	8328.3	8010.9	6518.1
32.5°	5954.1	6028.4	6052.0	6214.1	6332.3	6872.7	7919.7	8024.3	8845.0	8557.9	6845.7
35°	6264.8	6237.8	6345.8	6508.0	6761.2	7460.3	8537.7	8713.3	9402.3	9267.1	7183.4
37.5°	6653.2	6619.4	6724.1	6987.5	7332.0	8156.1	9108.5	9223.2	9807.6	9925.7	7808.2
40°	6926.7	6940.3	7257.7	7612.3	7977.1	8818.0	9469.8	9581.3	10091.2	10540.4	8281.0
42.5°	7382.6	7467.1	7848.7	8281.0	8662.6	9314.5	9763.7	9871.7	10222.9	11033.5	8919.3
45°	8044.6	8007.5	8429.6	8912.6	9334.8	9831.2	10111.5	10074.3	10300.7	11523.2	9321.2
47.5°	8895.7	8902.4	9182.7	9594.8	10033.8	10280.4	10499.9	10368.2	10462.7	12039.9	9858.2
50°	9476.6	9527.3	9753.5	10175.7	10395.2	10773.5	11053.8	10972.7	10942.3	12350.6	10195.9
52.5°	9625.2	9777.1	9898.7	10425.5	10938.9	11536.7	11894.7	12066.9	11526.6	12455.3	10624.9
55°	8503.9	8639.0	9067.9	9790.7	11144.9	12745.8	13238.9	13242.2	12289.8	12921.4	10925.4
57.5°	6798.4	6524.8	6788.3	7554.9	9422.6	12695.1	13894.0	13735.3	12671.4	12647.8	10665.4
60°	4701.1	4633.6	4650.5	4954.4	6521.5	10098.0	12381.0	12587.0	11668.4	10962.5	8443.1
62.5°	3725.1	3667.7	3593.4	3559.6	4049.3	6291.9	8733.5	9024.0	8159.5	7109.1	5005.1
65°	2917.9	2884.2	2894.3	3029.4	3026.0	3569.8	4775.5	4657.2	3728.5	2755.9	1573.8
67.5°	1968.9	2019.6	2060.1	2468.8	2678.2	2485.7	2306.7	2239.1	1212.5	510.0	347.8
70°	1107.8	1114.5	1158.4	1543.4	2033.1	1928.4	1590.7	1590.7	604.5	185.8	199.2
72.5°	604.5	584.2	543.7	665.3	905.1	918.6	709.2	618.1	179.0	121.6	111.4
75°	293.8	290.5	249.9	206.0	195.9	162.1	125.0	114.8	81.1	77.7	67.5
77.5°	60.8	57.4	30.4	30.4	33.8	37.2	47.3	47.3	57.4	57.4	47.3
80°	0.0	0.0	3.4	13.5	23.6	33.8	40.5	40.5	47.3	47.3	37.2
82.5°	0.0	0.0	3.4	10.1	20.3	30.4	37.2	40.5	47.3	50.6	40.5
85°	0.0	0.0	0.0	6.7	16.9	23.6	20.3	20.3	16.9	13.5	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652058

CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7
2.5°	7882.5	7875.7	7720.4	7632.6	7473.9	7335.4	7223.9	7142.9	7142.9	7092.2	7045.0
5°	7659.6	7602.2	7271.2	7058.4	6757.9	6535.0	6383.0	6264.8	6079.1	6129.7	5930.5
7.5°	7382.6	7237.5	6798.4	6474.2	6058.8	5741.3	5417.1	5130.0	4853.1	4728.2	4795.7
10°	7085.5	6832.2	6241.1	5727.8	5211.1	4630.2	4251.9	3792.7	3509.0	3492.1	3417.7
12.5°	6771.4	6484.4	5765.0	5055.8	4376.9	3677.9	3100.3	2671.4	2478.9	2266.2	2306.7
15°	6535.0	6109.4	5234.7	4380.3	3478.5	2772.7	2191.8	1860.9	1678.5	1627.8	1610.9
17.5°	6278.3	5822.4	4694.4	3661.0	2728.8	1995.9	1577.2	1418.4	1347.5	1347.5	1337.4
20°	6011.5	5498.2	4157.4	2992.3	2046.6	1489.3	1263.1	1212.5	1209.0	1205.7	1205.7
22.5°	5835.9	5126.7	3671.0	2377.6	1543.4	1192.2	1097.6	1077.3	1090.9	1131.4	1131.4
25°	5650.2	4768.6	3134.1	1833.9	1195.6	1023.3	969.3	982.8	1016.5	1053.7	1040.2
27.5°	5461.0	4535.7	2627.5	1438.7	979.4	895.0	874.7	905.1	942.3	976.1	965.9
30°	5417.1	4285.7	2147.9	1090.9	840.9	780.1	793.7	820.6	857.8	871.4	884.8
32.5°	5484.7	4089.9	1759.5	895.0	732.8	715.9	715.9	729.5	753.1	783.6	773.4
35°	5677.2	3978.4	1391.4	776.7	672.0	655.2	651.8	665.3	678.9	688.9	678.9
37.5°	5971.0	3890.6	1138.1	688.9	631.5	604.5	597.8	594.4	607.9	611.3	618.1
40°	6345.8	3937.9	965.9	635.0	591.1	560.6	540.3	540.3	540.3	550.5	553.9
42.5°	6751.1	4002.1	834.2	604.5	553.9	516.7	496.4	489.7	496.4	510.0	506.6
45°	7176.7	4127.0	749.8	557.2	520.1	472.8	445.8	439.0	455.9	483.0	479.5
47.5°	7575.1	4306.0	685.6	526.9	486.4	442.5	408.6	401.9	432.3	469.4	472.8
50°	7973.7	4616.7	662.0	503.2	462.7	412.0	381.6	374.8	408.6	455.9	466.1
52.5°	8433.0	4951.1	645.0	472.8	435.6	388.4	354.6	347.8	385.0	445.8	449.2
55°	8733.5	5234.7	631.5	418.8	385.0	351.2	324.2	320.8	361.4	415.4	428.9
57.5°	8382.3	4839.6	584.2	364.7	327.6	310.7	287.0	287.0	320.8	371.5	381.6
60°	6356.0	3184.8	415.4	293.8	276.9	266.8	256.7	256.7	283.7	320.8	324.2
62.5°	3721.8	1715.6	266.8	236.4	236.4	226.3	209.4	209.4	236.4	256.7	260.0
65°	1104.4	550.5	216.1	202.6	199.2	182.4	165.5	162.1	182.4	192.5	189.1
67.5°	317.5	253.3	179.0	168.9	165.5	138.4	128.3	125.0	128.3	121.6	118.2
70°	189.1	172.2	138.4	141.9	125.0	101.3	91.2	87.8	81.1	70.9	64.2
72.5°	104.7	104.7	101.3	108.1	87.8	67.5	57.4	47.3	37.2	30.4	27.0
75°	64.2	67.5	70.9	74.3	57.4	43.9	37.2	23.6	13.5	6.7	6.7
77.5°	43.9	47.3	50.6	54.1	47.3	40.5	30.4	16.9	3.4	0.0	0.0
80°	33.8	37.2	43.9	47.3	50.6	54.1	40.5	16.9	3.4	0.0	0.0
82.5°	37.2	40.5	50.6	47.3	47.3	47.3	37.2	16.9	3.4	0.0	0.0
85°	6.7	10.1	16.9	16.9	23.6	30.4	23.6	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)