

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: P652498

Luminaire Tested: **GALN-SA7B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652498
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-SA7B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 19492.7 lumens
Efficiency: N/A
Efficacy: 68.2 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

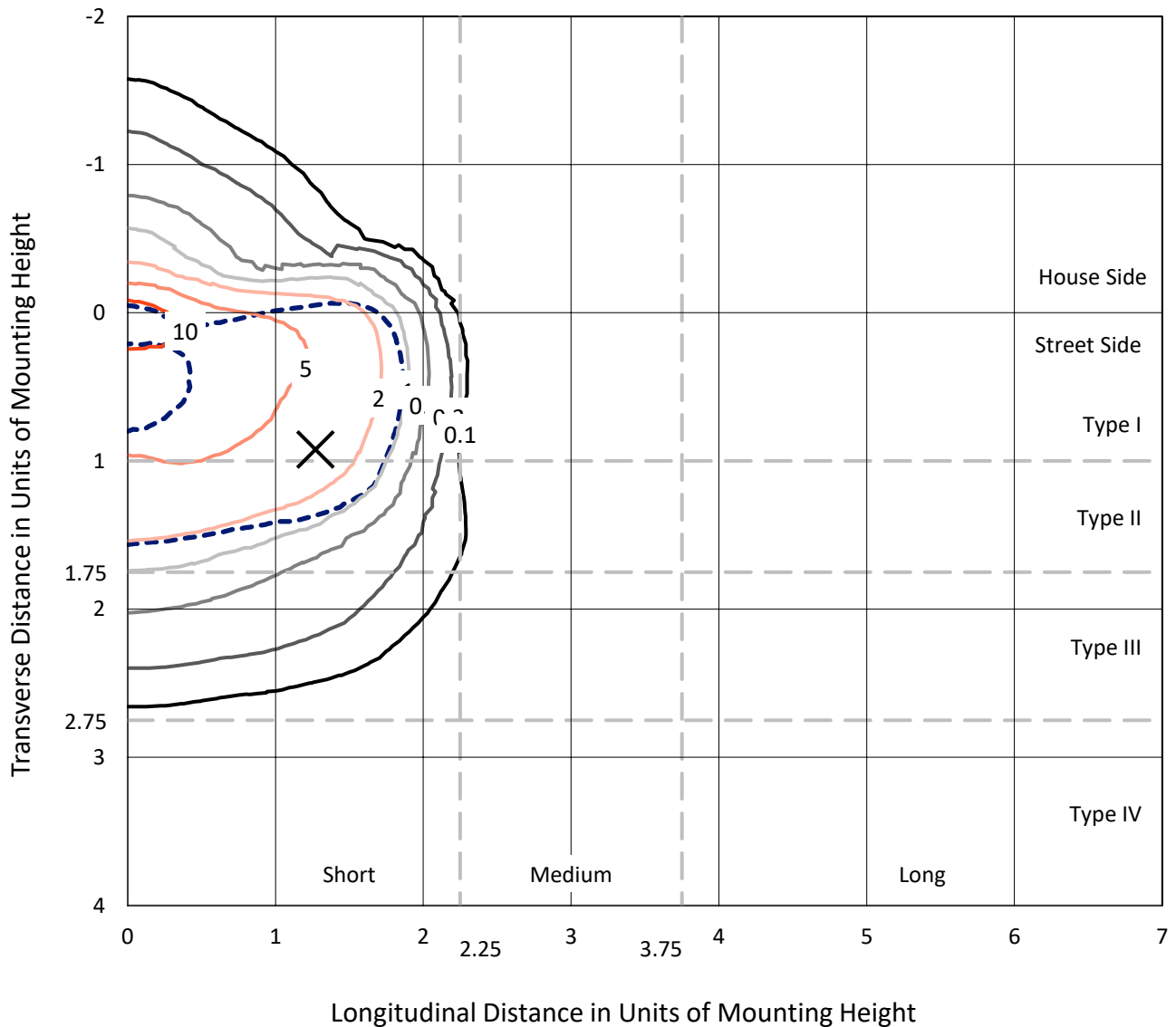
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652498
 CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

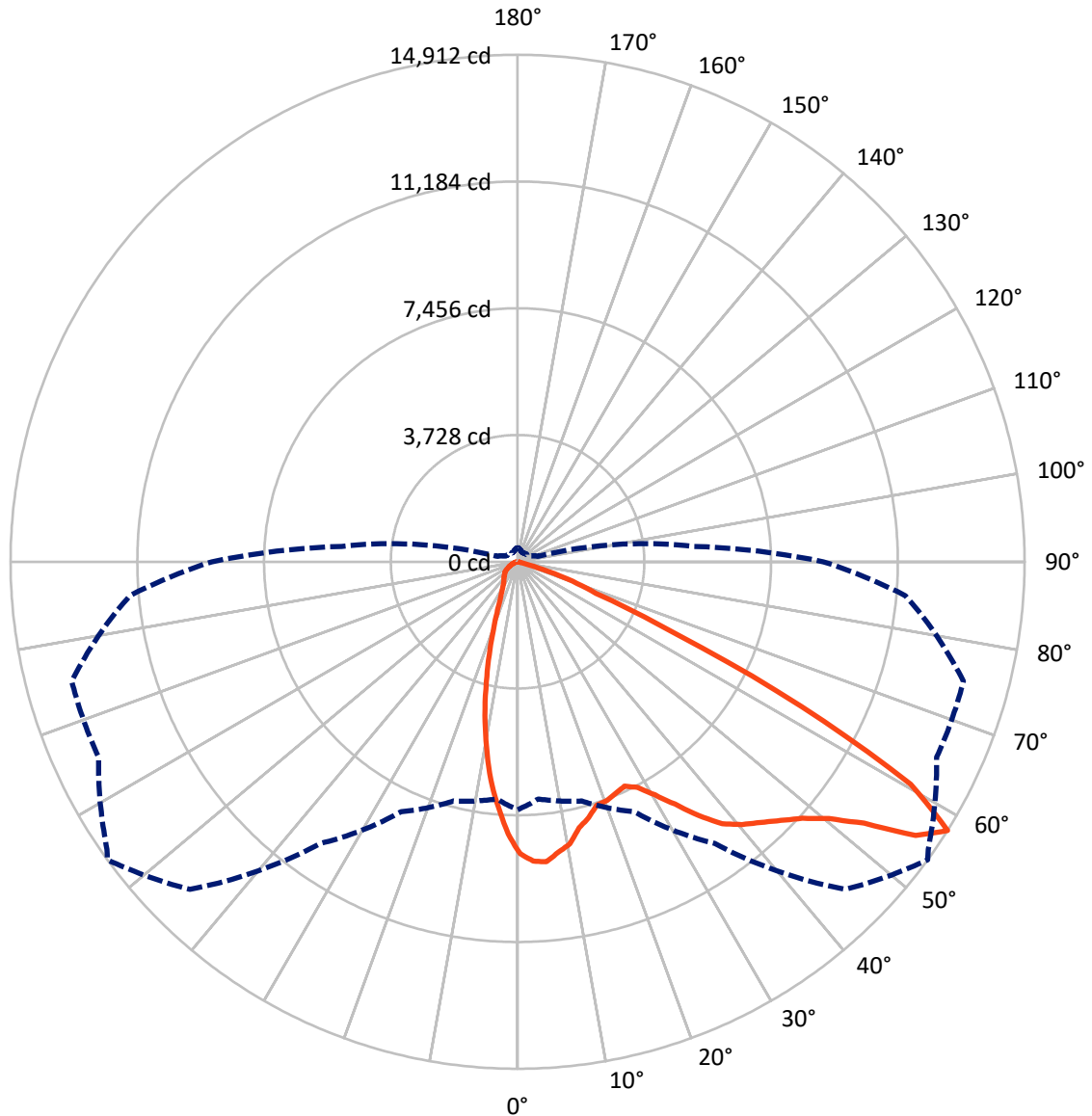
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

REPORT NUMBER: P652498
CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652498
 CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

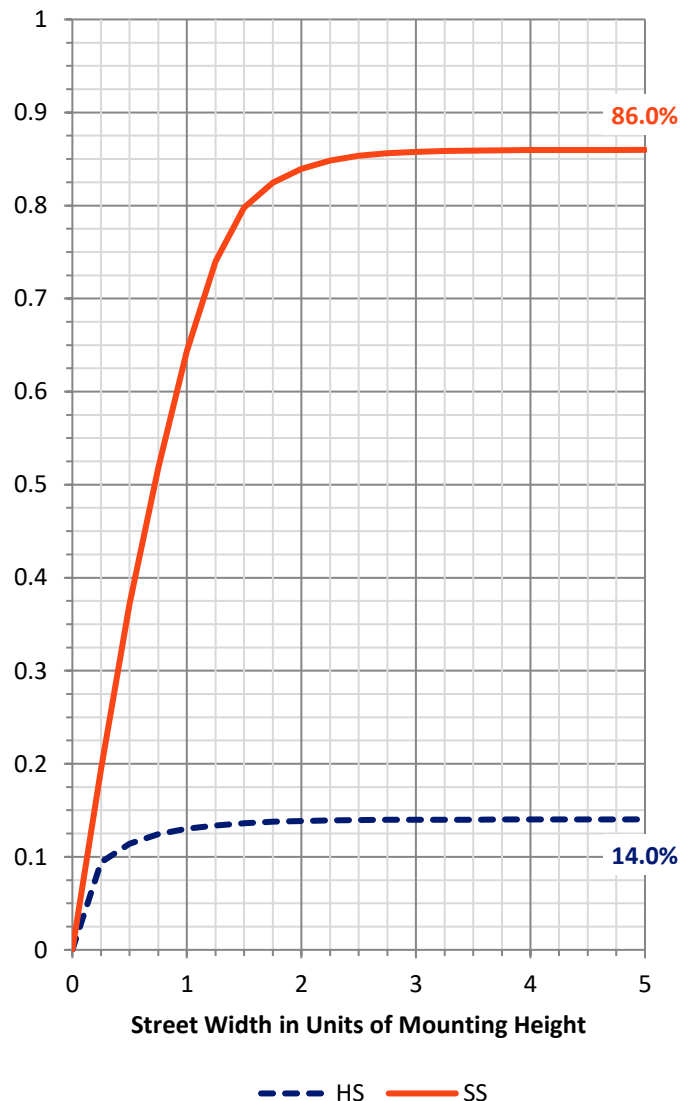
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.6	0.0	2754.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16738.1	0.0	16738.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	19492.7	0.0	19492.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.6	3.7
10°-20°	1534.1	7.9
20°-30°	2033.0	10.4
30°-40°	2954.5	15.2
40°-50°	4381.2	22.5
50°-60°	5478.4	28.1
60°-70°	2161.0	11.1
70°-80°	215.2	1.1
80°-90°	16.7	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°	19492.7	100.0
0°-180°	19492.7	100.0

Coefficient of Utilization



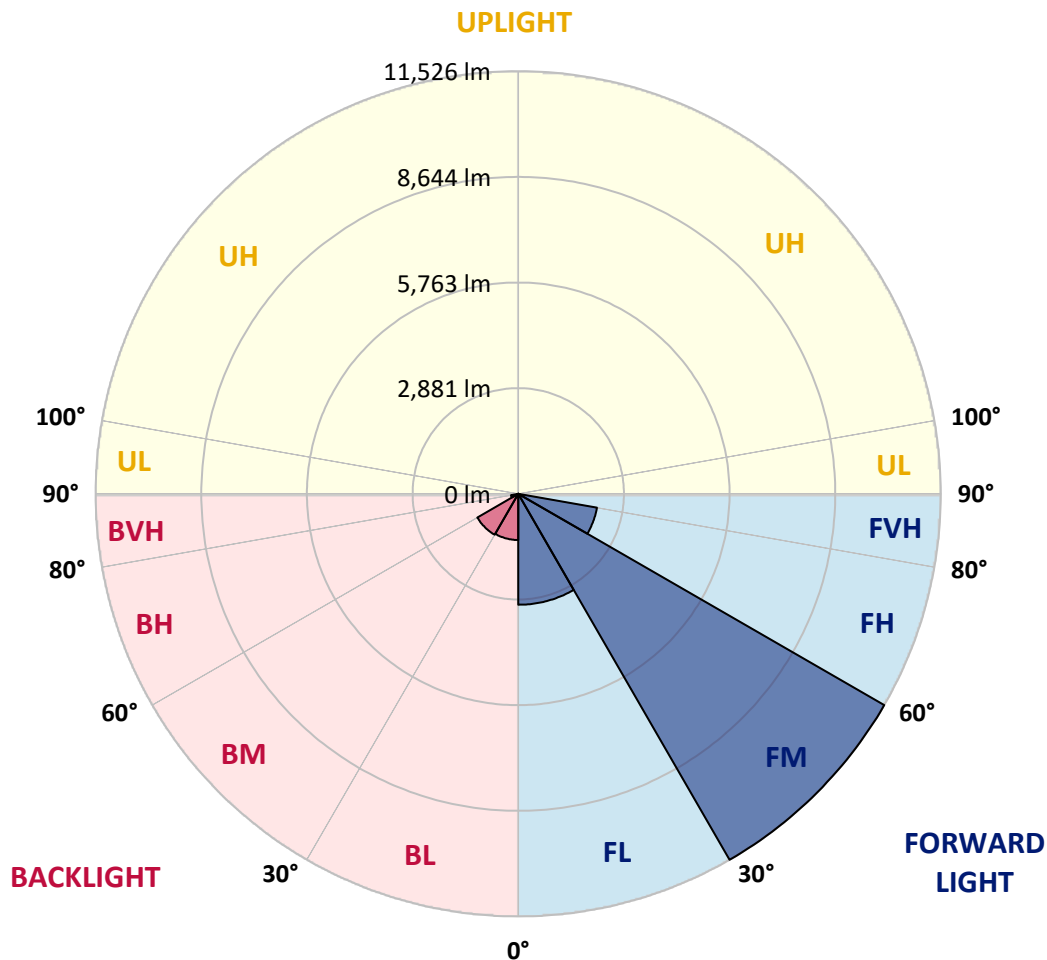
REPORT NUMBER: P652498
 CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.8	15.5			
FM (30°-60°)	11526.0	59.1			
FH (60°-80°)	2178.6	11.2			G2/5000
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	1259.8	6.5	B3/2500		
BM (30°-60°)	1288.1	6.6	B2/2500		
BH (60°-80°)	197.5	1.0	B1/500		G1/500
BVH (80°-90°)	9.1	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: P652498

CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8
2.5°	9087.0	8992.7	9000.0	8967.4	8923.9	8956.5	8815.1	8847.7	8844.1	8652.0	8525.2
5°	8858.7	8960.1	8855.1	8942.0	8858.7	8949.2	8862.3	8797.0	8691.9	8550.5	8315.0
7.5°	8470.8	8372.9	8401.9	8510.7	8528.8	8731.8	8623.0	8706.4	8662.9	8383.8	8061.2
10°	7691.5	7669.8	7814.7	7959.7	8137.3	8354.8	8438.2	8391.1	8358.4	8253.3	7822.0
12.5°	7093.4	7155.1	7151.4	7390.6	7691.5	7814.7	8032.2	8025.0	8206.2	8010.4	7597.3
15°	6524.4	6557.0	6709.2	6857.9	7191.3	7542.9	7811.1	7847.4	8064.9	7927.1	7423.3
17.5°	6176.4	6129.3	6248.9	6426.5	6767.2	7227.6	7524.8	7611.8	7909.0	7880.0	7223.9
20°	5832.1	5832.1	5929.9	6140.1	6451.9	6970.2	7499.4	7474.1	7909.0	7825.6	7010.1
22.5°	5716.1	5774.1	5799.5	5958.9	6328.6	6774.5	7390.6	7437.8	7970.6	7800.3	6915.8
25°	5875.6	5799.5	5806.7	5933.6	6281.5	6680.2	7310.9	7416.0	8082.9	7927.1	6839.7
27.5°	5901.0	5977.1	5998.8	6085.8	6317.8	6709.2	7510.3	7724.2	8362.1	8224.3	6861.5
30°	6122.1	6198.2	6194.6	6343.2	6502.6	6944.8	7956.1	7999.6	8938.4	8597.7	6995.6
32.5°	6390.3	6470.0	6495.4	6669.4	6796.2	7376.2	8499.8	8612.2	9493.0	9184.9	7347.1
35°	6723.7	6694.7	6810.8	6984.7	7256.6	8006.8	9163.1	9351.6	10091.0	9946.0	7709.6
37.5°	7140.6	7104.3	7216.7	7499.4	7869.2	8753.5	9775.7	9898.9	10526.0	10652.9	8380.2
40°	7434.2	7448.7	7789.3	8170.0	8561.5	9463.9	10163.5	10283.2	10830.5	11312.5	8887.6
42.5°	7923.5	8014.1	8423.7	8887.6	9297.3	9996.8	10478.9	10594.8	10971.9	11841.7	9572.7
45°	8634.0	8594.0	9047.1	9565.4	10018.5	10551.4	10852.2	10812.3	11055.2	12367.3	10004.0
47.5°	9547.4	9554.6	9855.4	10297.6	10768.8	11033.4	11269.1	11127.7	11229.2	12921.9	10580.4
50°	10170.8	10225.1	10468.0	10921.1	11156.7	11562.7	11863.5	11776.5	11743.9	13255.3	10942.8
52.5°	10330.3	10493.3	10623.8	11189.3	11740.3	12381.8	12766.0	12950.9	12370.9	13367.7	11403.1
55°	9126.9	9271.9	9732.2	10507.9	11961.4	13679.5	14208.6	14212.2	13190.1	13867.9	11725.7
57.5°	7296.4	7002.8	7285.6	8108.3	10112.8	13625.0	14911.8	14741.5	13599.7	13574.3	11446.7
60°	5045.5	4973.0	4991.2	5317.4	6999.2	10837.7	13288.0	13509.1	12523.2	11765.6	9061.6
62.5°	3998.0	3936.4	3856.7	3820.4	4346.0	6752.7	9373.4	9685.0	8757.2	7629.9	5371.7
65°	3131.7	3095.5	3106.3	3251.3	3247.7	3831.3	5125.2	4998.4	4001.6	2957.7	1689.1
67.5°	2113.2	2167.5	2211.1	2649.7	2874.4	2667.7	2475.7	2403.2	1301.3	547.3	373.3
70°	1188.9	1196.2	1243.3	1656.4	2182.1	2069.7	1707.2	1707.2	648.8	199.3	213.9
72.5°	648.8	627.0	583.6	714.1	971.4	985.9	761.2	663.3	192.1	130.5	119.6
75°	315.4	311.8	268.2	221.1	210.2	174.0	134.1	123.2	87.0	83.3	72.5
77.5°	65.3	61.6	32.6	32.6	36.2	39.9	50.7	50.7	61.6	61.6	50.7
80°	0.0	0.0	3.6	14.5	25.4	36.2	43.5	43.5	50.7	50.7	39.9
82.5°	0.0	0.0	3.6	10.8	21.8	32.6	39.9	43.5	50.7	54.3	43.5
85°	0.0	0.0	0.0	7.2	18.1	25.4	21.8	21.8	18.1	14.5	7.2
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: P652498

CATALOG NUMBER: GALN-SA7B-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8	8586.8
2.5°	8460.0	8452.7	8286.0	8191.7	8021.4	7872.8	7753.1	7666.1	7666.1	7611.8	7561.0
5°	8220.7	8159.0	7803.9	7575.6	7253.0	7013.7	6850.6	6723.7	6524.4	6578.7	6364.9
7.5°	7923.5	7767.6	7296.4	6948.4	6502.6	6161.9	5813.9	5505.9	5208.6	5074.5	5147.0
10°	7604.5	7332.7	6698.3	6147.4	5592.8	4969.4	4563.4	4070.4	3766.0	3747.9	3668.1
12.5°	7267.4	6959.4	6187.2	5426.1	4697.6	3947.2	3327.4	2867.1	2660.5	2432.2	2475.7
15°	7013.7	6557.0	5618.2	4701.2	3733.4	2975.9	2352.4	1997.2	1801.4	1747.1	1728.9
17.5°	6738.3	6248.9	5038.3	3929.2	2928.7	2142.2	1692.7	1522.4	1446.3	1446.3	1435.3
20°	6451.9	5901.0	4461.9	3211.4	2196.5	1598.5	1355.6	1301.3	1297.7	1294.0	1294.0
22.5°	6263.4	5502.2	3940.0	2551.8	1656.4	1279.5	1178.0	1156.3	1170.8	1214.2	1214.2
25°	6064.0	5118.0	3363.7	1968.2	1283.1	1098.3	1040.2	1054.8	1091.0	1130.9	1116.4
27.5°	5861.1	4867.9	2820.0	1544.1	1051.2	960.5	938.8	971.4	1011.3	1047.5	1036.6
30°	5813.9	4599.7	2305.3	1170.8	902.6	837.3	851.8	880.8	920.6	935.2	949.7
32.5°	5886.4	4389.4	1888.5	960.5	786.6	768.4	768.4	782.9	808.3	840.9	830.1
35°	6093.0	4269.8	1493.4	833.7	721.3	703.2	699.5	714.1	728.6	739.4	728.6
37.5°	6408.4	4175.6	1221.5	739.4	677.8	648.8	641.6	637.9	652.4	656.1	663.3
40°	6810.8	4226.4	1036.6	681.5	634.3	601.7	580.0	580.0	580.0	590.8	594.4
42.5°	7245.6	4295.2	895.3	648.8	594.4	554.6	532.9	525.5	532.9	547.3	543.7
45°	7702.4	4429.3	804.7	598.0	558.2	507.5	478.4	471.2	489.3	518.3	514.7
47.5°	8130.1	4621.5	735.8	565.4	521.9	474.8	438.6	431.3	464.0	503.8	507.5
50°	8557.8	4954.9	710.4	540.1	496.6	442.2	409.6	402.3	438.6	489.3	500.2
52.5°	9050.8	5313.8	692.3	507.5	467.6	416.8	380.6	373.3	413.2	478.4	482.1
55°	9373.4	5618.2	677.8	449.4	413.2	376.9	348.0	344.3	387.9	445.8	460.4
57.5°	8996.3	5194.1	627.0	391.5	351.6	333.5	308.1	308.1	344.3	398.7	409.6
60°	6821.6	3418.1	445.8	315.4	297.2	286.4	275.5	275.5	304.4	344.3	348.0
62.5°	3994.3	1841.3	286.4	253.7	253.7	242.9	224.7	224.7	253.7	275.5	279.1
65°	1185.2	590.8	231.9	217.5	213.9	195.7	177.6	174.0	195.7	206.6	203.0
67.5°	340.7	271.8	192.1	181.2	177.6	148.6	137.8	134.1	137.8	130.5	126.8
70°	203.0	184.9	148.6	152.2	134.1	108.7	97.9	94.3	87.0	76.1	68.9
72.5°	112.4	112.4	108.7	116.0	94.3	72.5	61.6	50.7	39.9	32.6	29.0
75°	68.9	72.5	76.1	79.7	61.6	47.1	39.9	25.4	14.5	7.2	7.2
77.5°	47.1	50.7	54.3	58.0	50.7	43.5	32.6	18.1	3.6	0.0	0.0
80°	36.2	39.9	47.1	50.7	54.3	58.0	43.5	18.1	3.6	0.0	0.0
82.5°	39.9	43.5	54.3	50.7	50.7	50.7	39.9	18.1	3.6	0.0	0.0
85°	7.2	10.8	18.1	18.1	25.4	32.6	25.4	7.2	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)