

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: P652116

Luminaire Tested: **GALN-SA9A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34557.5 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

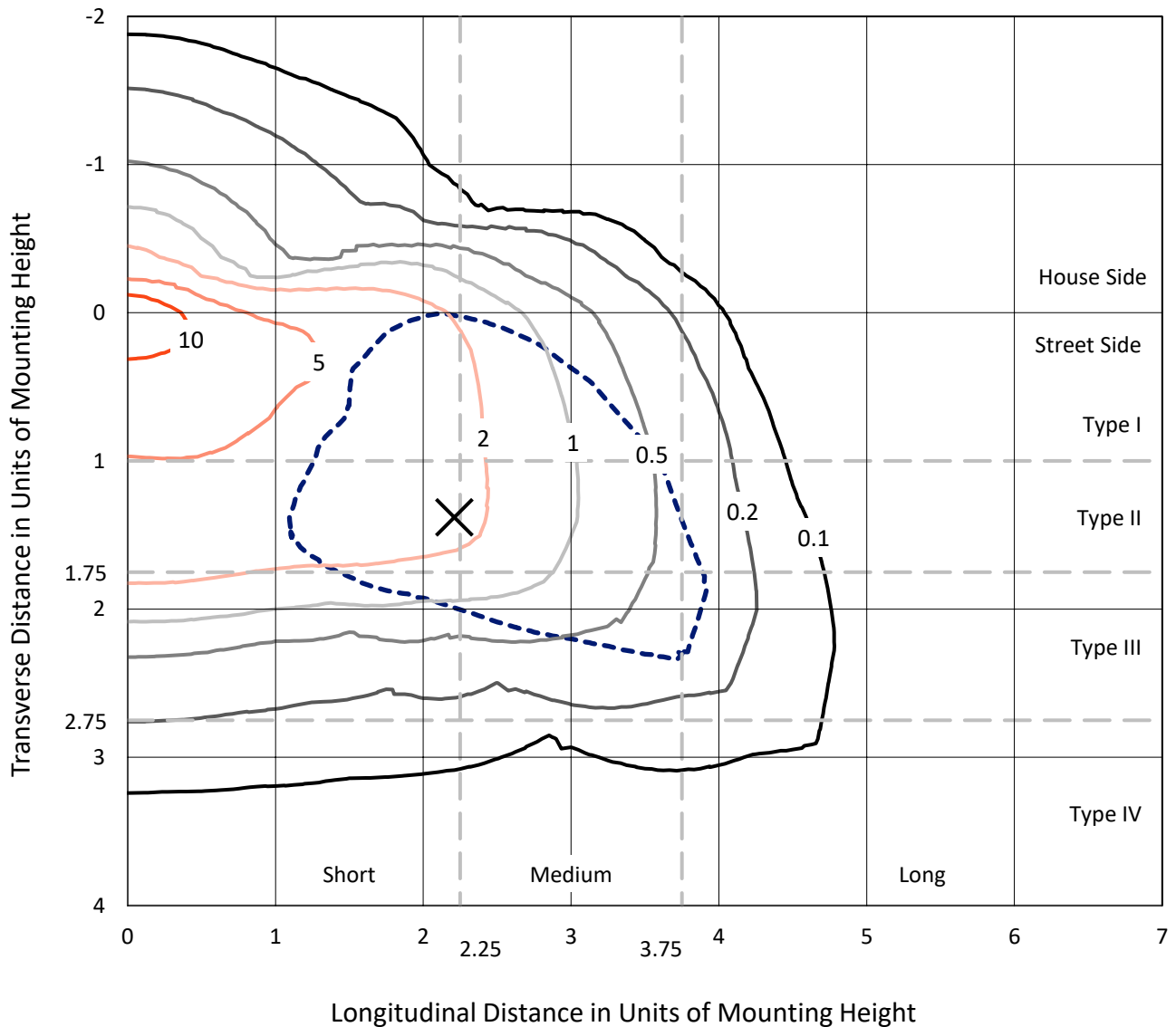
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652116
 CATALOG NUMBER: GALN-SA9A-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

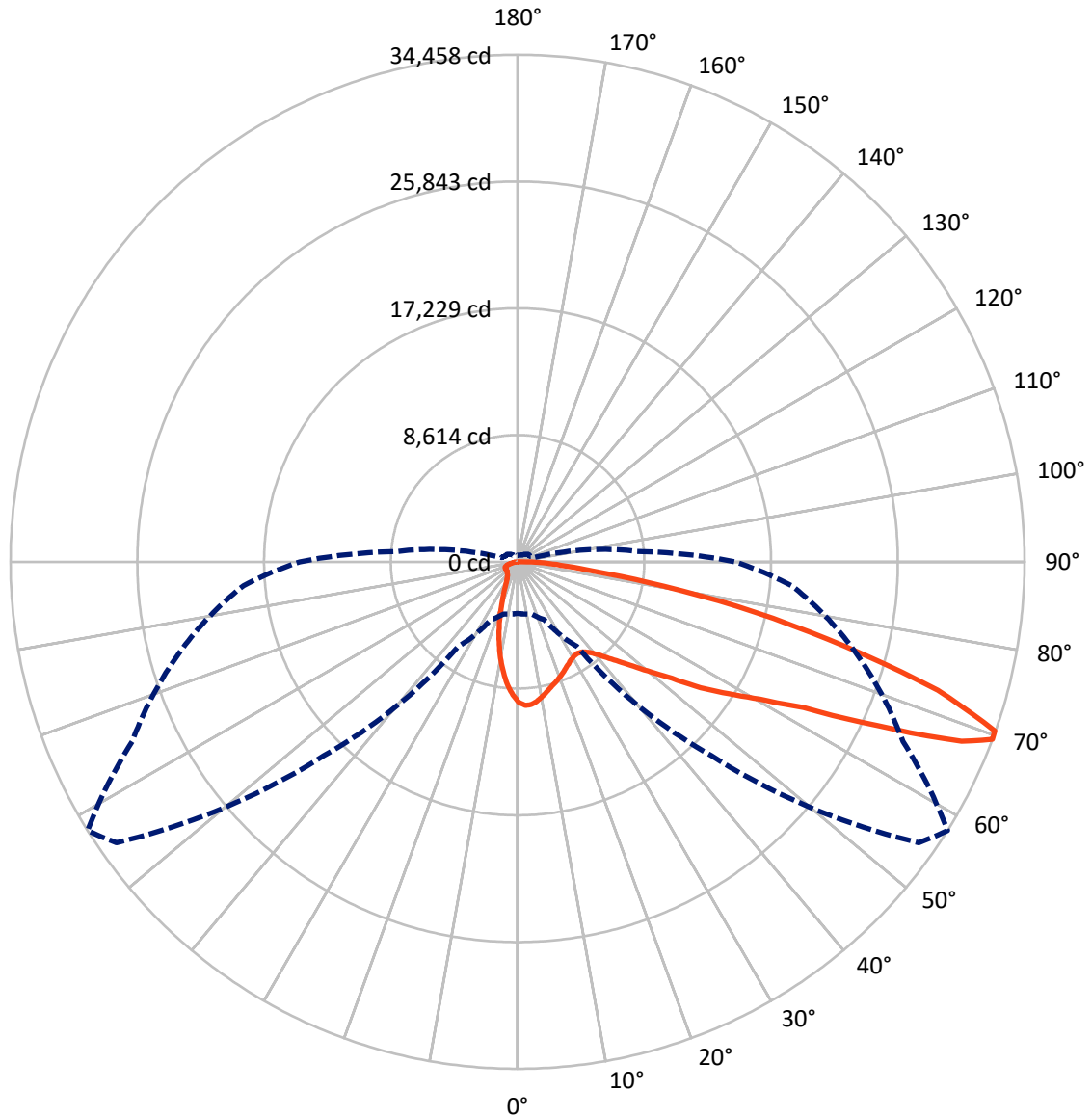
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

REPORT NUMBER: P652116
CATALOG NUMBER: GALN-SA9A-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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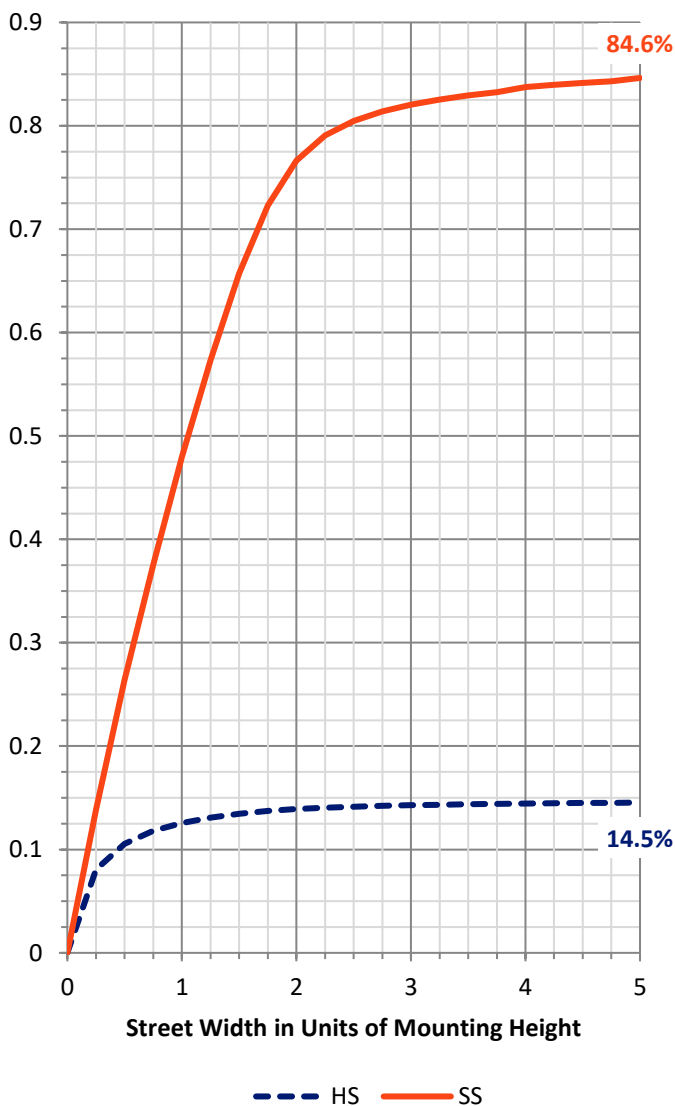
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5064.4	0.0	5064.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29493.1	0.0	29493.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	34557.5	0.0	34557.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.0	2.3
10°-20°	1780.8	5.2
20°-30°	2300.8	6.7
30°-40°	2988.3	8.6
40°-50°	4344.6	12.6
50°-60°	6932.6	20.1
60°-70°	9261.1	26.8
70°-80°	5338.6	15.4
80°-90°	799.6	2.3
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°	34557.5	100.0
0°-180°	34557.5	100.0

Coefficient of Utilization



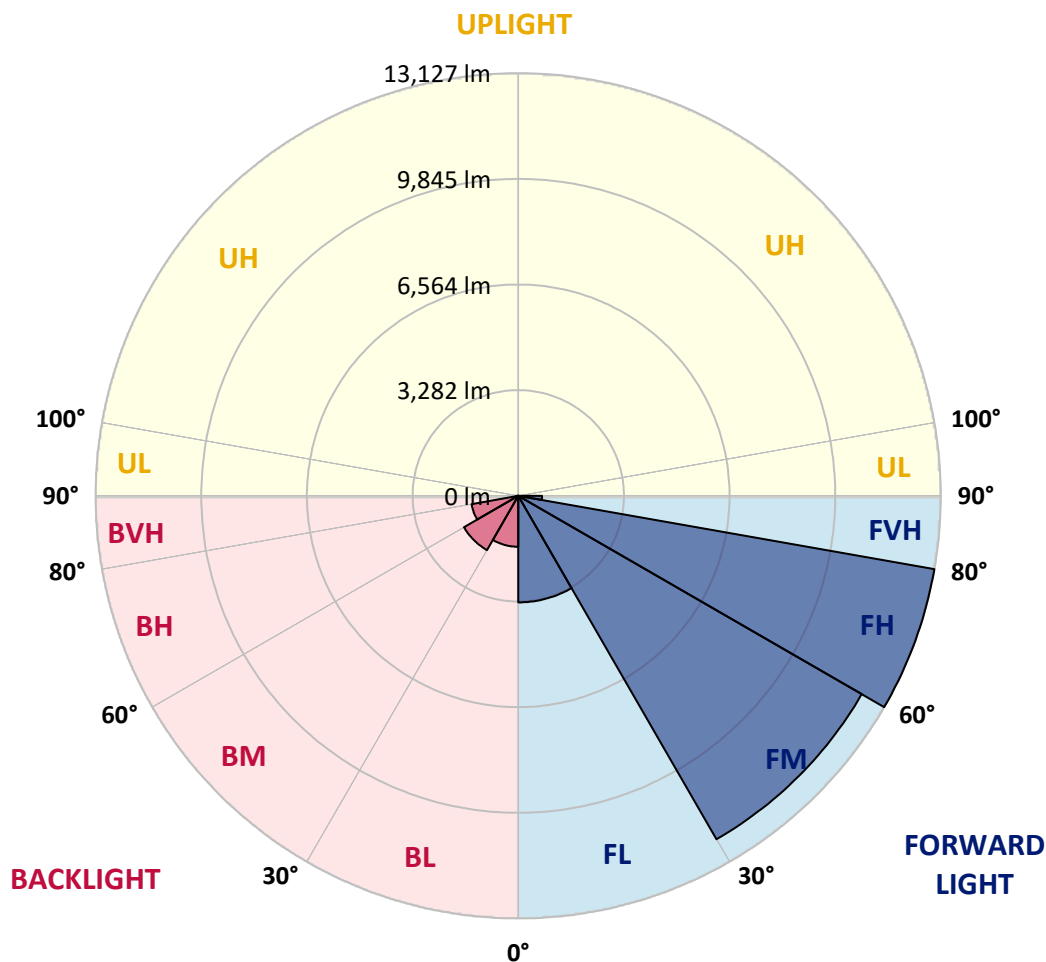
REPORT NUMBER: P652116
 CATALOG NUMBER: GALN-SA9A-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3309.7	9.6			
FM (30°-60°)	12318.0	35.6			
FH (60°-80°)	13127.1	38.0			G5
FVH (80°-90°)	738.4	2.1			G4/750
BL (0°-30°)	1582.9	4.6	B3/2500		
BM (30°-60°)	1947.6	5.6	B2/2500		
BH (60°-80°)	1472.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	61.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6
2.5°	9904.3	9931.3	9923.5	9914.0	9898.5	9856.1	9786.7	9775.2	9730.9	9636.4	9518.9
5°	9752.1	9775.2	9777.1	9790.6	9809.8	9802.2	9752.1	9746.3	9680.8	9553.5	9357.0
7.5°	9229.7	9260.6	9328.0	9403.2	9470.7	9534.2	9549.6	9559.3	9518.9	9372.4	9110.2
10°	8641.9	8672.7	8703.6	8815.4	8981.1	9139.1	9270.3	9287.6	9297.2	9162.3	8842.4
12.5°	7990.5	8054.1	8119.6	8285.4	8507.1	8755.7	8986.9	9023.5	9089.0	8986.9	8611.1
15°	7437.4	7502.9	7597.3	7745.8	8013.6	8372.1	8697.8	8757.6	8886.7	8834.6	8395.2
17.5°	7053.9	7077.0	7142.5	7312.1	7601.2	7978.9	8414.5	8534.0	8740.3	8726.7	8210.2
20°	6751.3	6780.1	6820.7	6924.7	7225.4	7624.3	8150.5	8304.6	8584.1	8630.3	8027.1
22.5°	6624.1	6645.2	6639.4	6695.4	6899.6	7300.6	7882.6	8065.7	8445.3	8564.8	7857.5
25°	6631.8	6651.0	6622.1	6608.7	6730.1	7015.3	7603.1	7836.4	8333.6	8520.5	7703.3
27.5°	6760.9	6774.4	6720.4	6666.4	6676.1	6838.0	7371.9	7630.1	8239.1	8539.8	7574.2
30°	6934.4	6959.4	6924.7	6859.2	6787.9	6795.6	7223.4	7477.8	8194.8	8607.2	7512.6
32.5°	7157.9	7181.0	7165.7	7113.6	7021.1	6918.9	7186.8	7422.0	8198.7	8744.0	7499.0
35°	7393.1	7439.3	7464.4	7460.5	7385.3	7208.0	7331.4	7526.0	8291.2	8973.4	7578.1
37.5°	7659.0	7697.6	7805.5	7874.9	7805.5	7599.3	7657.1	7792.0	8495.4	9304.9	7751.5
40°	7917.3	7975.1	8133.1	8348.9	8322.0	8140.8	8154.3	8243.0	8855.9	9798.3	8090.8
42.5°	8187.1	8256.4	8532.1	8852.0	8915.6	8774.9	8811.5	8890.5	9368.5	10482.5	8672.7
45°	8534.0	8616.9	8956.1	9355.0	9605.6	9518.9	9622.9	9661.5	10054.7	11372.9	9439.8
47.5°	8981.1	9077.5	9495.7	9992.9	10347.6	10426.5	10607.8	10584.7	10904.6	12427.1	10434.3
50°	9734.7	9788.7	10183.8	10690.6	11178.2	11534.8	11731.4	11767.9	11958.8	13452.4	11546.3
52.5°	10630.9	10679.1	10964.3	11407.6	12018.6	12774.0	13259.7	13140.2	13186.5	14701.3	12847.3
55°	11638.9	11719.8	11901.0	12195.8	12988.0	14100.0	15075.2	15104.1	14591.4	15896.2	14094.2
57.5°	12419.4	12556.2	12866.5	13286.7	14290.8	15574.4	16884.9	16904.2	16248.9	17172.0	15470.3
60°	12026.2	12188.1	12897.4	13920.7	16000.3	18147.3	19047.3	18937.5	17862.1	18625.2	17148.9
62.5°	10330.3	10359.1	11390.3	12989.8	16526.4	21589.4	22265.9	21801.4	20014.8	20467.8	18854.6
65°	6685.7	6874.6	7691.8	9933.2	14797.6	23499.3	27905.1	26831.6	23033.0	22558.8	20282.7
67.5°	4220.7	4172.5	4511.8	5672.0	10178.0	21816.8	32717.5	32548.0	26980.0	23879.0	19941.5
69°	3499.9	3553.9	3669.5	4348.0	7003.8	18627.1	33286.1	34457.9	28893.8	23774.9	18702.3
70°	3174.3	3199.2	3320.7	3854.6	5404.1	15601.3	32353.3	34405.8	29645.4	23339.3	17804.2
72.5°	2519.0	2517.0	2725.2	3207.0	4039.6	8905.9	26565.7	29870.9	28805.2	21311.9	14710.9
75°	1913.8	1944.6	2174.0	2713.6	3721.6	4866.4	18538.5	23004.0	23006.0	16832.9	9179.6
77.5°	1379.9	1399.2	1667.1	2278.0	3505.7	3945.1	12348.1	16499.5	15510.7	7713.0	2885.1
80°	903.9	915.4	1119.8	1803.9	3160.7	3721.6	7321.7	10099.0	7315.9	2046.7	954.0
82.5°	495.3	553.1	684.2	1167.9	2536.3	3438.3	4450.1	5111.2	2744.4	911.6	497.2
85°	248.6	264.1	385.4	682.2	1657.4	2844.7	3099.1	2931.4	1416.6	452.9	258.3
87.5°	73.3	92.5	160.0	264.1	672.6	1482.1	1724.9	1547.6	545.4	163.8	54.0
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°	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6	9549.6
2.5°	9470.7	9435.9	9281.8	9143.0	9015.9	8880.9	8767.2	8667.0	8676.6	8678.5	8576.4
5°	9254.8	9175.8	8882.8	8609.1	8377.9	8085.0	7834.4	7672.5	7591.5	7483.6	7522.2
7.5°	8961.9	8809.6	8402.9	7948.1	7522.2	7142.5	6730.1	6446.8	6265.6	6090.2	6113.3
10°	8659.3	8414.5	7822.8	7221.5	6670.3	6063.2	5537.1	5086.1	4750.7	4625.5	4542.6
12.5°	8348.9	8027.1	7275.5	6475.7	5714.4	4987.8	4241.9	3758.2	3388.1	3191.6	3216.7
15°	8065.7	7674.5	6705.0	5729.8	4741.1	3875.7	3131.8	2671.2	2413.0	2359.0	2389.9
17.5°	7803.6	7290.9	6171.2	5005.1	3850.7	2906.3	2353.2	2093.0	1989.0	1960.0	1958.1
20°	7533.8	6965.2	5571.8	4230.4	3000.8	2253.0	1931.1	1809.7	1790.4	1802.0	1803.9
22.5°	7260.1	6562.4	4955.0	3461.4	2389.9	1842.5	1688.3	1655.5	1671.0	1697.9	1701.8
25°	7007.6	6207.8	4361.4	2786.8	1908.0	1618.9	1543.7	1543.7	1578.5	1618.9	1620.9
27.5°	6799.5	5864.7	3769.8	2212.5	1597.7	1457.0	1432.0	1445.4	1493.6	1524.5	1526.4
30°	6627.9	5544.8	3210.9	1773.1	1405.0	1327.9	1322.1	1345.3	1379.9	1408.8	1410.8
32.5°	6498.8	5263.4	2688.6	1489.7	1272.0	1229.6	1227.7	1245.0	1264.3	1272.0	1279.7
35°	6448.7	5030.2	2210.6	1310.5	1183.4	1156.4	1156.4	1154.4	1162.2	1166.0	1169.8
37.5°	6489.2	4851.0	1840.5	1194.9	1117.9	1098.5	1087.0	1075.4	1071.6	1071.6	1073.5
40°	6660.7	4756.5	1564.9	1119.8	1071.6	1042.7	1021.5	1007.9	994.5	998.4	1002.2
42.5°	7025.0	4773.9	1378.0	1069.7	1031.1	990.6	959.7	944.4	934.8	946.3	944.4
45°	7605.1	4947.4	1258.6	1034.9	990.6	938.6	909.7	894.2	894.2	911.6	917.4
47.5°	8416.5	5278.8	1194.9	1007.9	959.7	898.1	869.2	857.7	861.5	890.4	892.3
50°	9407.1	5855.0	1183.4	994.5	944.4	869.2	836.5	824.9	834.5	865.4	869.2
52.5°	10499.8	6597.1	1239.2	996.4	930.9	851.8	809.5	792.1	801.7	826.8	834.5
55°	11794.9	7526.0	1383.8	1004.2	911.6	842.3	790.2	751.6	763.2	780.5	782.5
57.5°	13117.1	8697.8	1638.2	1006.0	896.2	824.9	757.4	707.3	707.3	718.9	724.7
60°	14732.1	9973.7	1973.6	1007.9	898.1	799.8	713.1	657.2	649.5	655.3	657.2
62.5°	16335.7	11041.4	2029.4	1002.2	917.4	774.7	664.9	607.1	593.6	591.6	587.9
65°	17042.9	10842.8	1663.2	975.2	938.6	759.3	626.4	558.9	535.8	528.1	528.1
67.5°	15890.4	9171.9	1250.8	938.6	925.1	743.9	589.7	518.5	491.5	476.0	476.0
69°	14807.3	8158.2	1123.6	913.5	890.4	718.9	566.6	497.2	464.5	447.2	441.4
70°	13970.9	7460.5	1069.7	892.3	857.7	690.0	549.3	481.8	445.2	426.0	422.1
72.5°	11149.3	5853.2	936.6	811.4	730.4	580.1	487.6	433.6	399.0	377.8	372.0
75°	6425.6	3172.3	776.7	705.3	587.9	450.9	412.4	377.8	350.8	331.5	325.7
77.5°	1977.4	1225.8	562.8	557.0	431.7	348.8	329.6	316.0	296.8	275.6	271.7
80°	832.6	624.4	381.6	375.8	287.2	242.8	237.1	235.1	227.4	210.1	204.3
82.5°	456.7	352.7	265.9	231.3	173.4	140.7	146.5	148.4	142.6	125.3	113.7
85°	223.5	192.8	129.1	104.0	79.1	50.1	48.2	57.8	54.0	38.5	42.4
87.5°	44.3	54.0	34.6	15.4	7.7	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)