

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: P652060

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25690 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

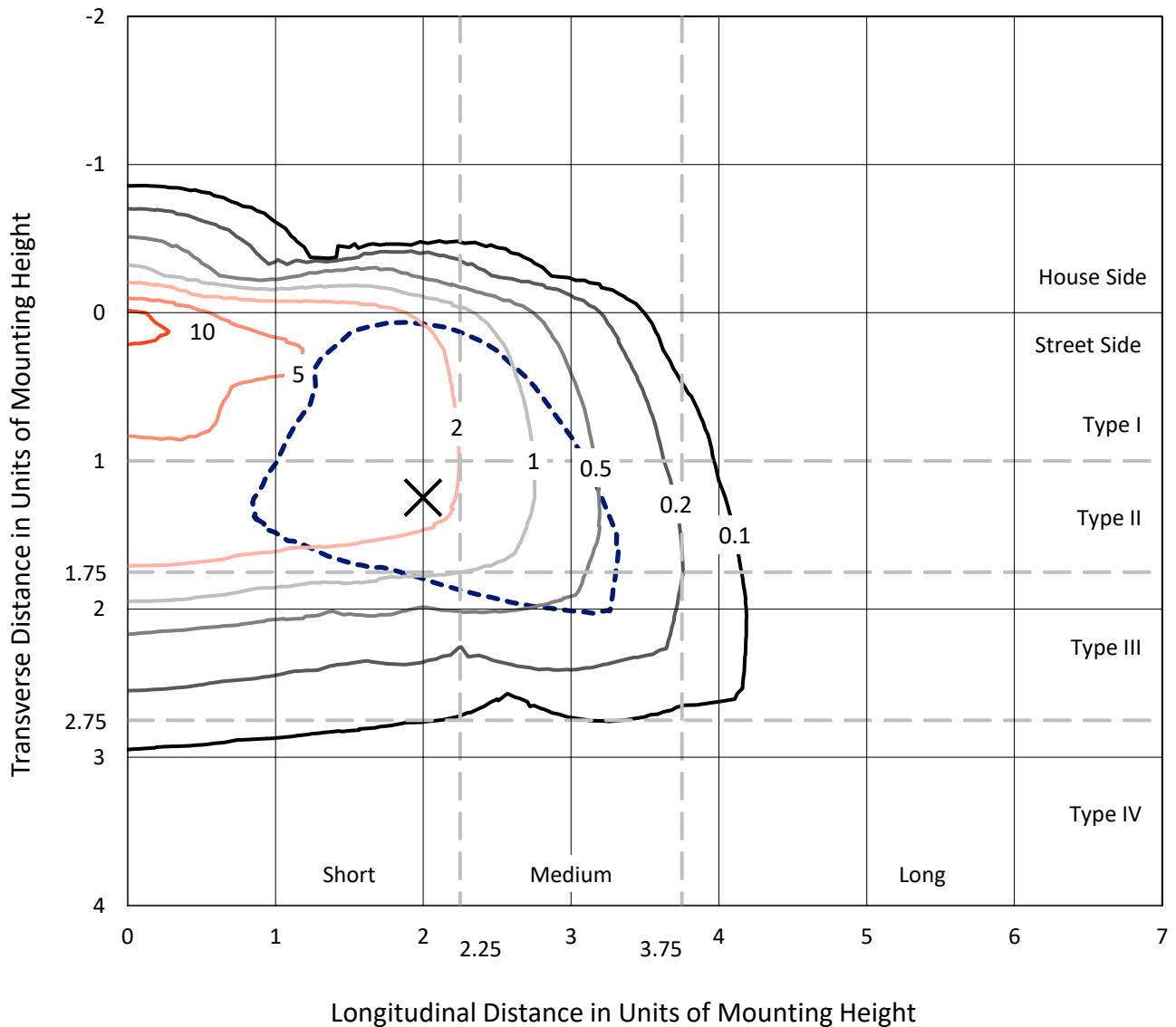
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

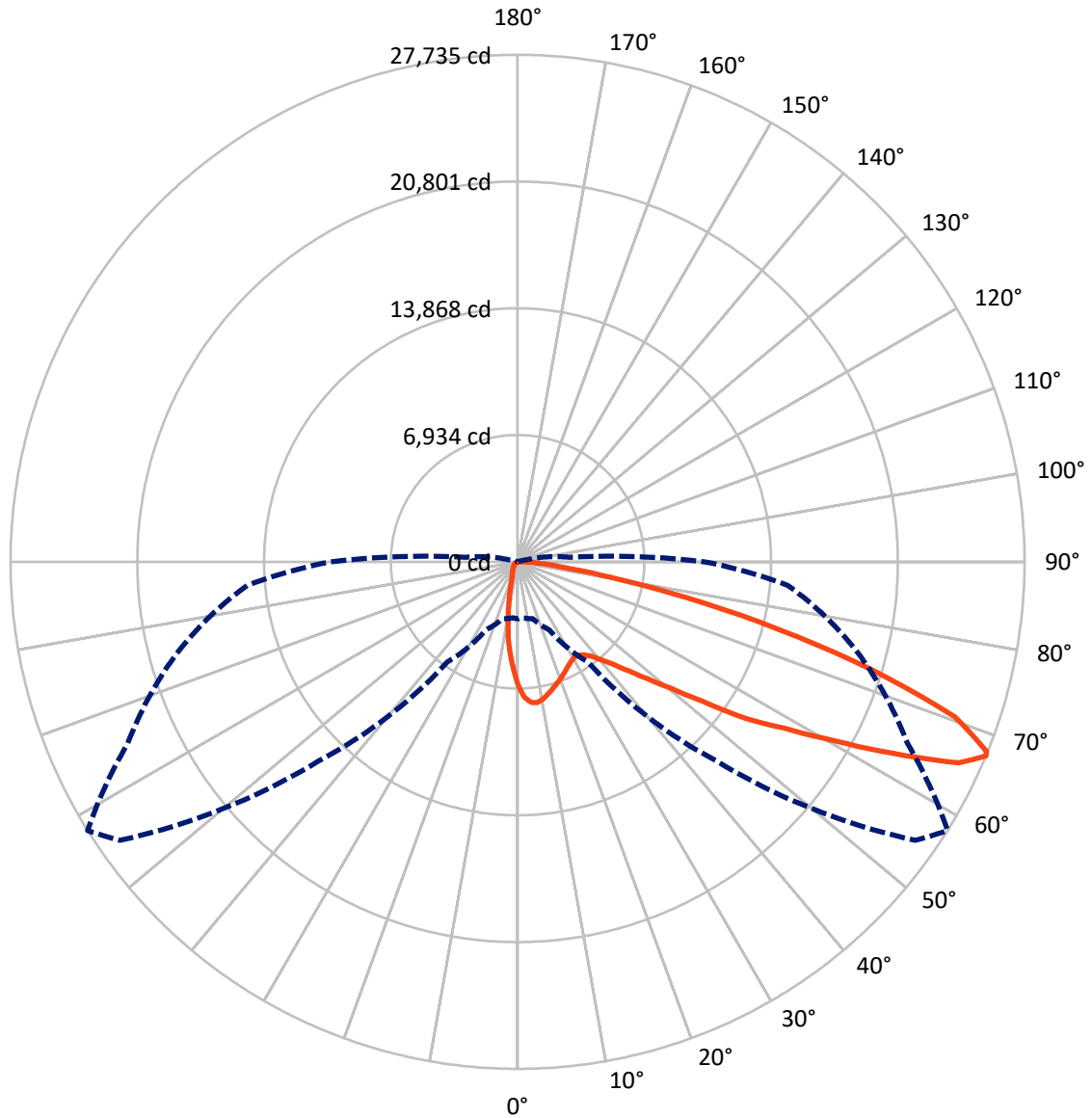
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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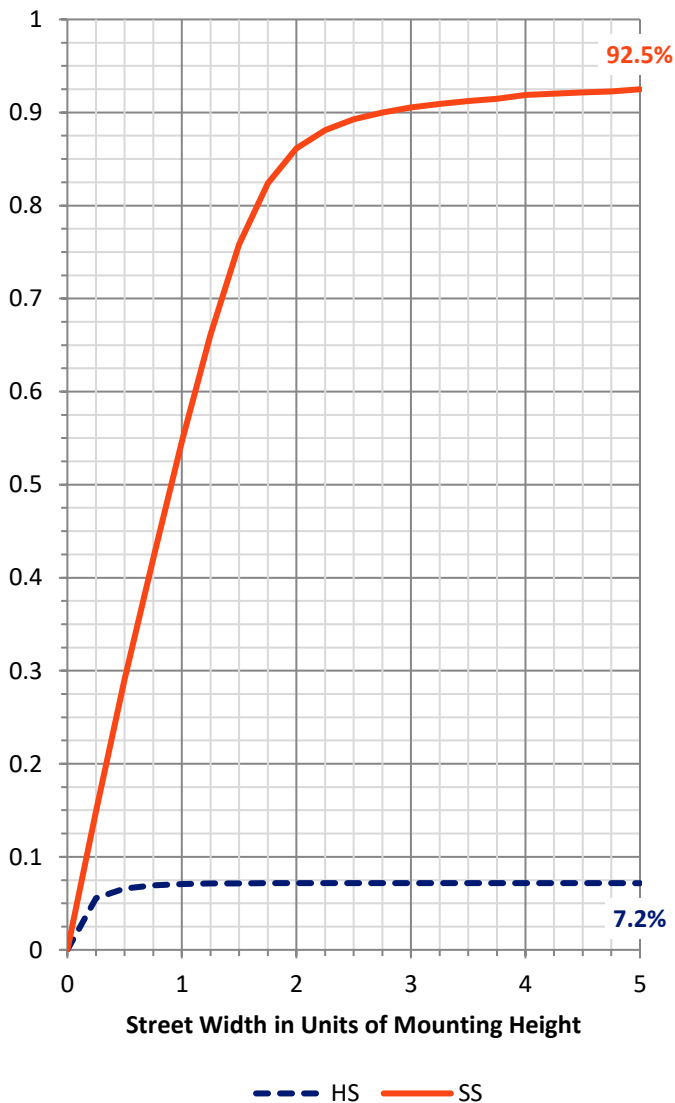
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1853.9	0.0	1853.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23836.1	0.0	23836.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	25690.0	0.0	25690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.6	2.2
10°-20°	1193.5	4.6
20°-30°	1617.3	6.3
30°-40°	2243.2	8.7
40°-50°	3577.6	13.9
50°-60°	6184.2	24.1
60°-70°	7064.2	27.5
70°-80°	2945.1	11.5
80°-90°	312.3	1.2
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°	25690.0	100.0
0°-180°	25690.0	100.0

Coefficient of Utilization

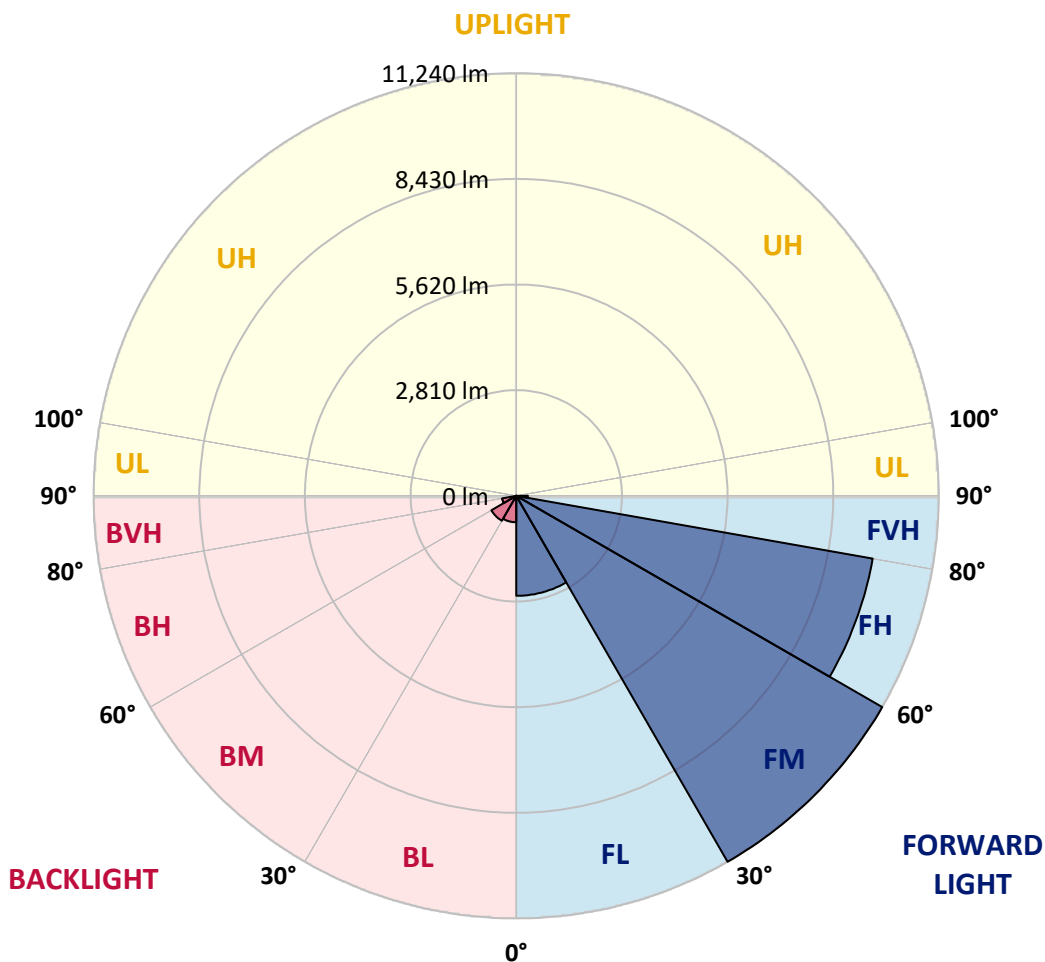


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.5	10.4			
FM (30°-60°)	11240.5	43.8			
FH (60°-80°)	9626.1	37.5			G4/12000
FVH (80°-90°)	310.0	1.2			G3/500
BL (0°-30°)	704.0	2.7	B2/1000		
BM (30°-60°)	764.4	3.0	B1/1000		
BH (60°-80°)	383.3	1.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2
2.5°	7903.7	7915.7	7871.1	7835.1	7742.3	7642.8	7510.6	7440.2	7320.1	7112.3	6882.3
5°	8089.2	8104.5	8097.7	8089.2	8053.1	7957.0	7788.8	7726.9	7550.1	7211.9	6796.5
7.5°	7677.2	7733.8	7740.6	7807.6	7871.1	7879.7	7816.2	7769.8	7606.8	7210.1	6643.6
10°	7131.2	7169.0	7223.9	7301.1	7454.0	7581.0	7642.8	7635.9	7541.5	7157.0	6465.1
12.5°	6580.2	6600.8	6684.9	6817.1	7004.2	7220.5	7385.3	7417.9	7419.6	7093.4	6315.7
15°	6106.3	6097.8	6163.0	6315.7	6578.5	6849.7	7145.0	7196.4	7278.9	7031.7	6176.7
17.5°	5701.2	5745.8	5756.1	5924.3	6166.5	6518.3	6894.3	6985.3	7150.1	6978.4	6061.7
20°	5450.5	5474.6	5496.9	5591.3	5809.4	6180.2	6659.1	6784.4	7029.9	6930.3	5932.9
22.5°	5376.8	5392.2	5373.3	5402.5	5557.0	5886.6	6403.3	6569.9	6914.9	6885.7	5828.2
25°	5433.4	5448.8	5404.2	5369.9	5423.1	5648.0	6156.1	6358.7	6822.2	6877.1	5749.2
27.5°	5570.7	5599.9	5538.1	5476.3	5445.4	5519.2	5962.1	6197.3	6758.7	6918.3	5713.2
30°	5785.3	5802.5	5756.1	5680.6	5610.2	5536.4	5860.8	6085.7	6741.5	7014.4	5709.8
32.5°	6018.8	6054.9	6029.1	5979.3	5888.3	5713.2	5890.0	6089.2	6782.7	7153.5	5752.7
35°	6307.2	6348.4	6372.4	6362.2	6245.4	6027.4	6075.5	6243.7	6892.6	7409.3	5869.4
37.5°	6590.4	6626.5	6762.1	6808.5	6705.5	6499.5	6435.9	6547.5	7134.6	7744.1	6080.6
40°	6914.9	6963.0	7153.5	7330.3	7280.5	7064.2	6947.5	7040.3	7505.4	8248.8	6480.6
42.5°	7225.6	7311.5	7601.6	7914.1	7960.4	7718.4	7641.1	7671.9	8054.8	8975.0	7038.5
45°	7666.8	7747.5	8121.8	8545.8	8763.8	8575.0	8496.0	8490.8	8808.5	9996.4	7943.2
47.5°	8303.7	8375.9	8817.0	9235.9	9623.9	9649.6	9500.3	9551.7	9756.1	11191.3	9052.2
50°	9084.8	9254.8	9544.9	9981.0	10499.4	10918.3	10964.6	10896.0	11071.1	12574.9	10384.4
52.5°	10219.6	10284.8	10550.9	10909.7	11517.4	12228.1	12779.2	12684.8	12629.8	13893.3	11730.3
55°	11065.9	11153.4	11567.2	12059.9	12950.9	13888.2	15083.0	15115.6	14422.1	15160.3	13047.0
57.5°	10810.1	10944.0	11570.6	12561.2	14519.9	16233.2	17122.5	17144.8	16080.4	16391.2	14533.7
60°	9496.8	9560.3	10458.2	11780.1	14653.8	18774.0	20015.1	19834.9	17768.0	17768.0	15847.0
62.5°	6734.6	6834.2	7562.1	9507.2	13234.1	19656.4	23479.5	23106.9	20092.4	19084.6	16629.8
65°	4303.8	4207.7	4690.1	6001.6	9859.0	18353.3	26495.7	26518.0	22279.4	19611.7	16202.3
67°	3117.6	3079.7	3218.8	4102.9	6684.9	15428.1	26559.2	27735.2	23536.1	19278.7	14835.8
67.5°	2851.5	2880.7	2981.9	3701.2	6073.7	14039.2	26270.8	27663.1	23819.4	19077.8	14341.4
70°	2161.4	2111.6	2221.4	2617.9	3641.1	8856.5	22598.8	25371.3	23467.4	17084.7	11459.0
72.5°	1589.7	1584.5	1737.3	2140.8	2803.4	4717.5	16964.6	20343.0	19172.2	13009.3	7215.4
75°	1072.9	1121.1	1364.8	1788.8	2540.7	3059.1	11565.5	14758.5	13309.7	7387.0	2949.3
77.5°	611.2	614.6	878.9	1436.8	2281.5	2461.8	6853.1	9402.5	7045.4	2456.6	875.5
80°	264.4	290.1	436.1	1043.8	1891.8	2180.2	3929.6	5167.3	2849.7	520.2	283.2
82.5°	97.9	115.0	192.3	642.0	1380.2	1795.7	2374.2	2466.9	966.5	183.7	176.9
85°	0.0	3.4	70.4	300.4	719.3	801.7	1586.2	1462.7	427.5	87.5	115.0
87.5°	0.0	0.0	0.0	30.9	94.4	298.7	492.7	549.3	103.0	30.9	27.5
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°	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2	6810.2
2.5°	6758.7	6647.1	6367.3	6087.5	5879.8	5706.4	5445.4	5302.9	5227.4	5115.8	5122.7
5°	6588.7	6362.2	5869.4	5359.6	4947.5	4545.9	4065.1	3871.2	3708.1	3615.4	3553.6
7.5°	6336.3	6001.6	5272.0	4592.2	3958.8	3256.6	2729.5	2377.7	2140.8	2053.2	1969.0
10°	6060.0	5615.4	4666.0	3723.5	2844.6	2120.2	1673.8	1351.1	1236.0	1129.6	1139.9
12.5°	5804.2	5263.4	4109.8	2939.0	1993.1	1347.6	1050.7	918.5	880.7	868.7	868.7
15°	5594.8	4927.0	3512.4	2209.4	1366.5	968.2	841.2	805.2	791.4	787.9	787.9
17.5°	5371.6	4607.7	2973.4	1632.6	994.0	810.3	767.3	743.4	738.1	734.8	734.8
20°	5172.5	4286.7	2461.8	1215.4	803.4	729.6	702.2	686.7	681.5	678.1	679.8
22.5°	4983.6	4001.6	1981.1	918.5	707.3	664.4	636.9	621.4	611.2	602.6	604.3
25°	4815.4	3727.0	1593.1	751.9	636.9	599.1	571.6	549.3	527.1	516.7	515.0
27.5°	4696.9	3486.6	1241.1	643.8	573.4	532.2	497.9	470.4	441.2	425.7	422.4
30°	4599.1	3242.9	982.0	568.3	509.9	470.4	427.5	388.0	357.1	341.6	334.7
32.5°	4535.5	3011.1	774.2	506.5	456.7	408.6	360.5	321.0	286.7	271.2	267.8
35°	4525.3	2817.1	633.4	454.9	408.6	357.1	307.3	264.4	235.2	219.8	216.3
37.5°	4599.1	2667.7	530.5	413.7	369.1	312.4	257.5	218.0	192.3	180.2	178.5
40°	4796.5	2573.4	460.1	379.4	333.0	271.2	219.8	185.4	159.6	147.6	147.6
42.5°	5172.5	2576.8	413.7	346.7	297.0	231.8	187.1	154.5	132.2	121.9	118.4
45°	5759.6	2693.6	374.2	314.2	262.6	200.8	159.6	127.1	104.7	96.1	96.1
47.5°	6545.8	2925.3	339.9	281.6	231.8	171.6	135.7	103.0	84.1	75.5	75.5
50°	7574.1	3297.8	310.7	254.1	206.0	147.6	109.8	84.1	65.3	58.4	56.7
52.5°	8648.8	3757.8	276.4	230.0	176.9	125.3	89.2	65.3	49.8	44.7	42.9
55°	9835.1	4207.7	243.8	206.0	144.2	104.7	70.4	51.5	36.1	30.9	30.9
57.5°	11031.6	4648.9	204.3	171.6	113.3	77.3	54.9	37.8	24.1	18.9	18.9
60°	12044.5	4791.3	173.4	139.0	85.9	54.9	39.4	24.1	13.7	8.6	8.6
62.5°	12183.5	4310.6	145.9	106.5	61.8	37.8	20.6	13.7	5.1	3.4	3.4
65°	11428.2	3502.1	121.9	80.7	41.2	18.9	8.6	5.1	1.7	0.0	0.0
67°	10240.2	2839.5	99.6	60.0	29.2	12.0	5.1	1.7	0.0	0.0	0.0
67.5°	9936.3	2707.3	96.1	56.7	25.7	10.3	3.4	1.7	0.0	0.0	0.0
70°	7797.3	2027.4	68.7	34.3	15.5	6.9	0.0	0.0	0.0	0.0	0.0
72.5°	4846.3	1146.8	49.8	20.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0
75°	1831.7	401.7	34.3	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	569.9	152.8	20.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	192.3	58.4	13.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	118.4	24.1	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.8	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.4	1.7	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)