

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: P652090

Luminaire Tested: **GALN-SA8A-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30988.3 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

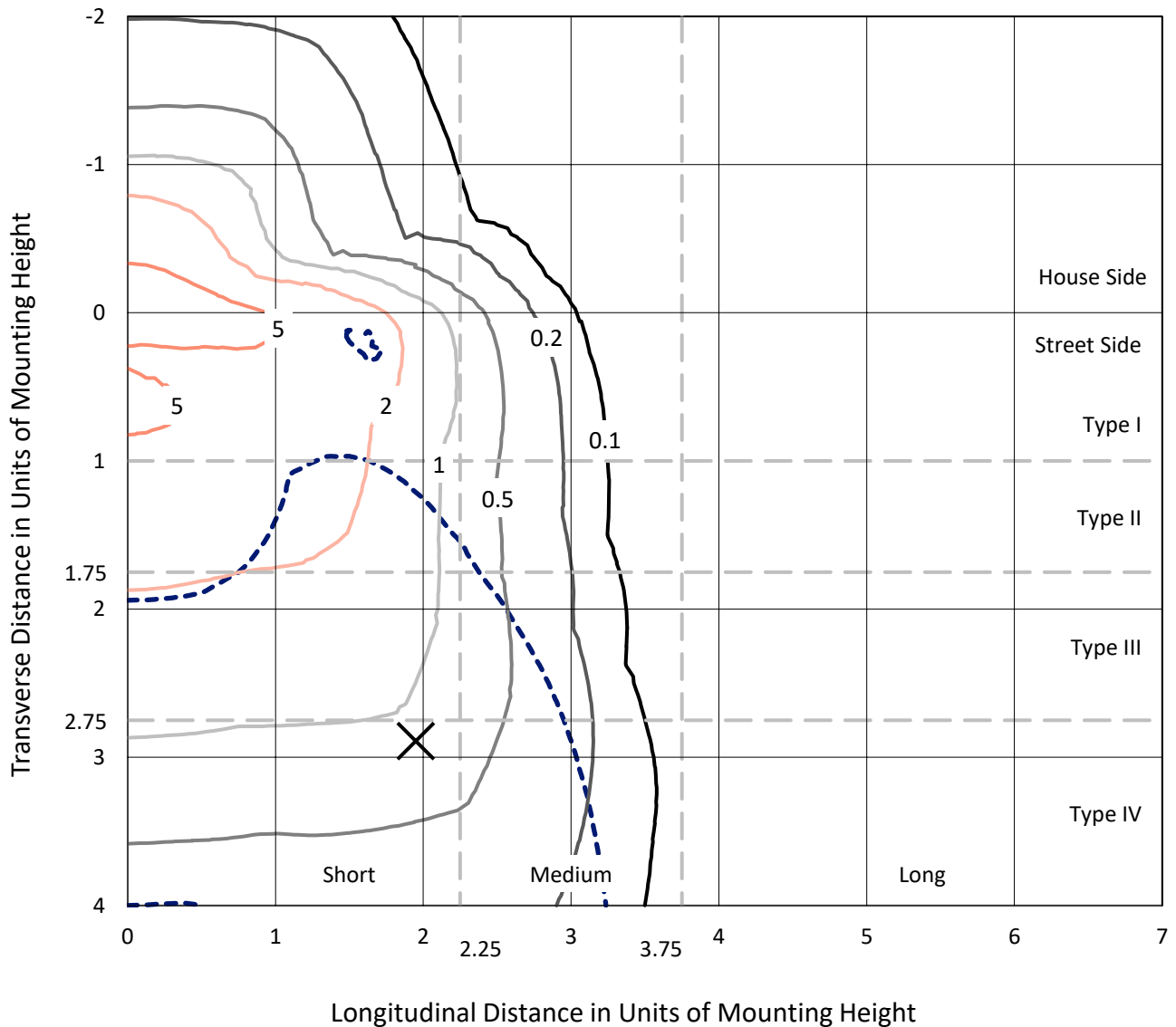
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652090
 CATALOG NUMBER: GALN-SA8A-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

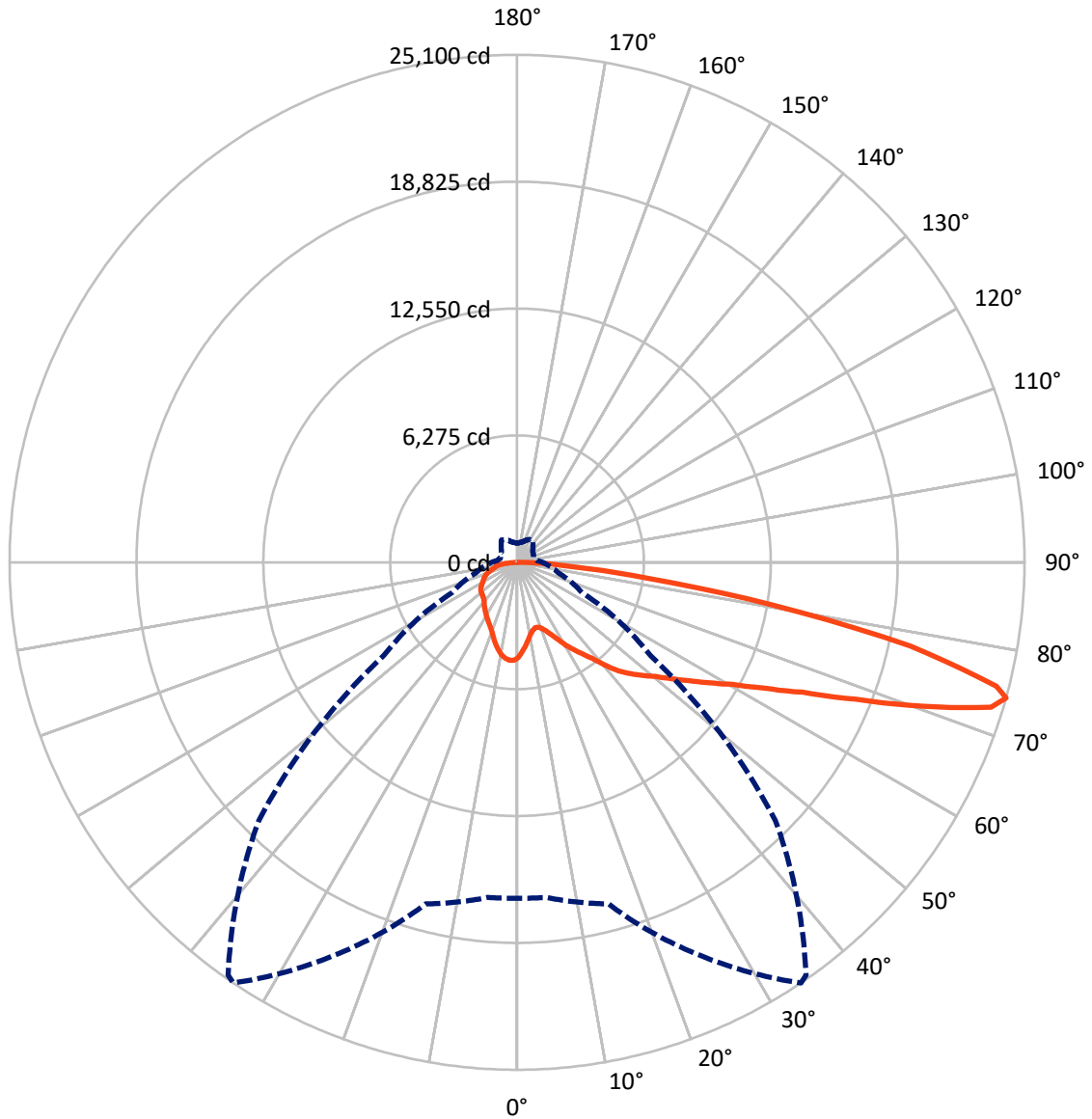
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P652090
CATALOG NUMBER: GALN-SA8A-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P652090
 CATALOG NUMBER: GALN-SA8A-840-U-T4FT

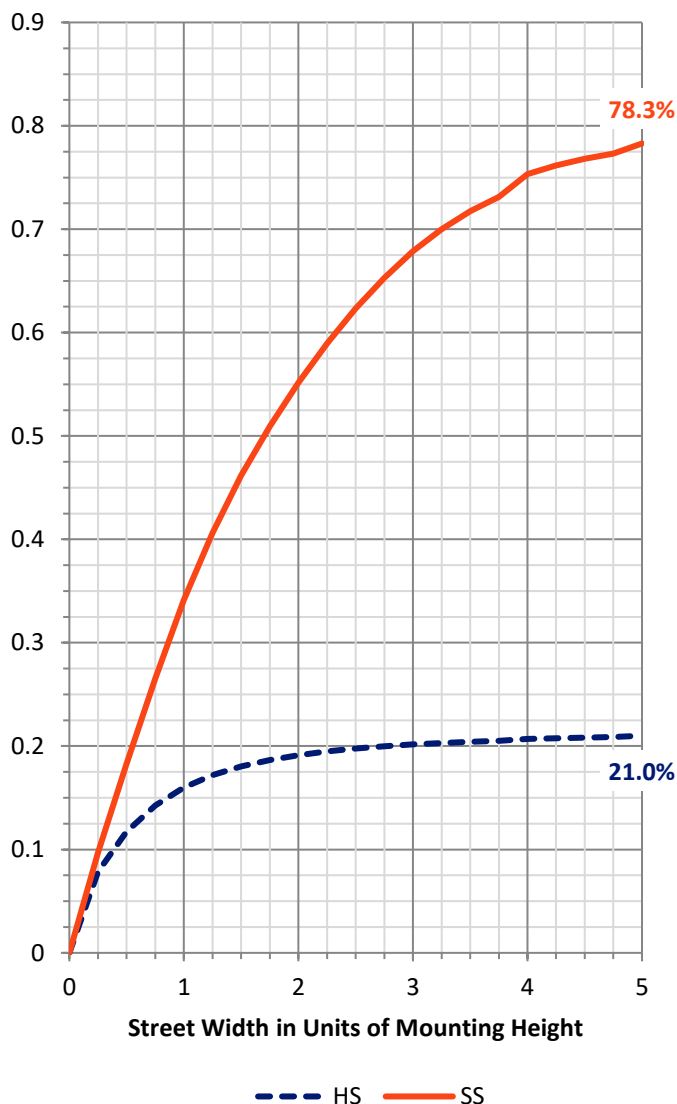
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6594.5	0.0	6594.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	24393.8	0.0	24393.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	30988.3	0.0	30988.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.3	1.4
10°-20°	1177.9	3.8
20°-30°	1942.1	6.3
30°-40°	2909.0	9.4
40°-50°	4228.9	13.6
50°-60°	5906.7	19.1
60°-70°	7394.9	23.9
70°-80°	6115.0	19.7
80°-90°	883.6	2.9
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°	30988.3	100.0
0°-180°	30988.3	100.0

Coefficient of Utilization

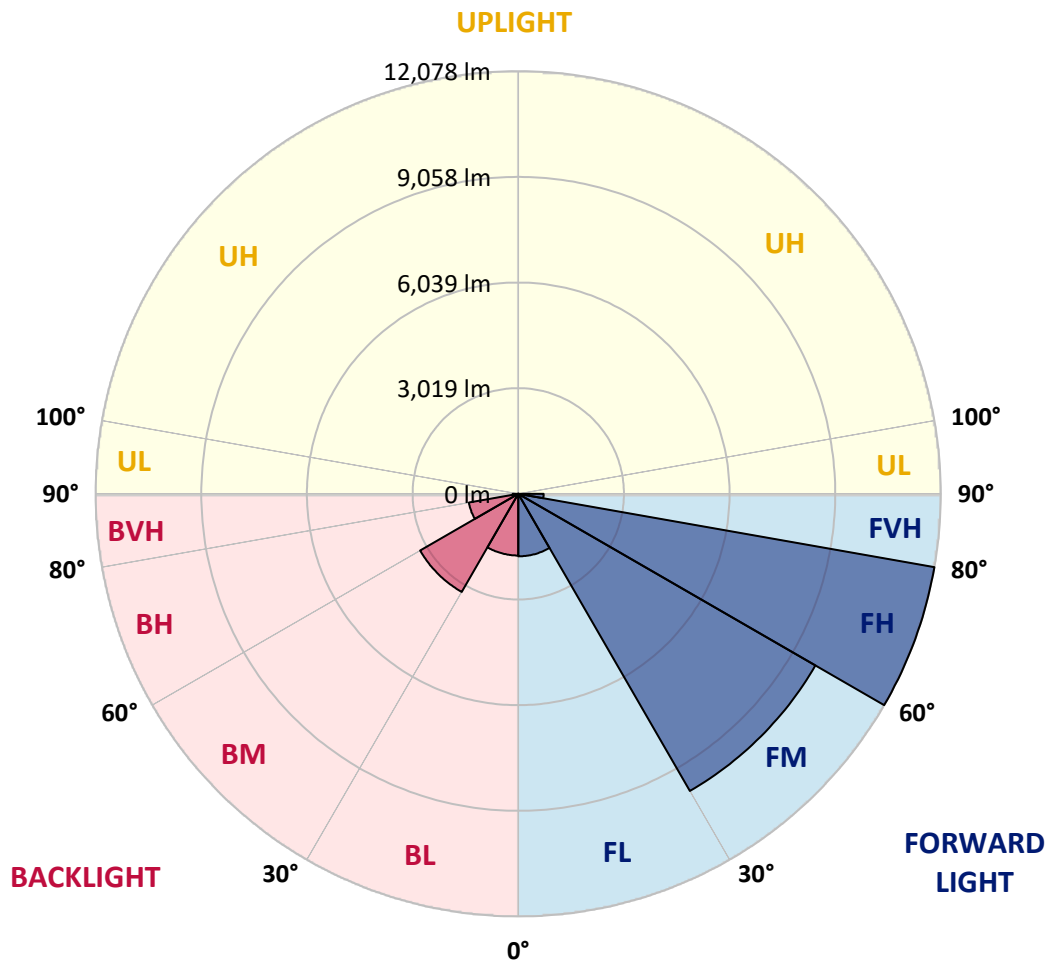


REPORT NUMBER: P652090
 CATALOG NUMBER: GALN-SA8A-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.3	5.8			
FM (30°-60°)	9806.0	31.6			
FH (60°-80°)	12077.6	39.0			G5
FVH (80°-90°)	723.8	2.3			G4/750
BL (0°-30°)	1763.9	5.7	B3/2500		
BM (30°-60°)	3238.6	10.5	B3/5000		
BH (60°-80°)	1432.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	159.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P652090
 CATALOG NUMBER: GALN-SA8A-840-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
2.5°	4372.5	4394.8	4406.8	4449.7	4460.1	4473.8	4509.9	4557.9	4619.7	4674.6	4722.7
5°	4008.5	4042.9	4063.5	4101.3	4175.1	4182.0	4278.1	4387.9	4513.3	4630.0	4726.2
7.5°	3663.5	3701.2	3718.4	3787.1	3884.9	3900.4	4041.2	4214.6	4424.0	4600.9	4748.5
10°	3404.3	3423.1	3461.0	3512.4	3629.2	3639.4	3823.2	4054.9	4326.2	4587.1	4786.2
12.5°	3263.5	3273.8	3282.4	3337.3	3452.3	3467.8	3660.0	3922.8	4248.9	4597.4	4848.0
15°	3284.1	3287.6	3249.8	3260.1	3352.7	3375.1	3565.7	3835.2	4200.8	4623.1	4940.7
17.5°	3457.5	3445.5	3352.7	3304.7	3370.0	3380.2	3546.7	3800.8	4178.5	4671.3	5036.9
20°	3730.4	3713.3	3553.6	3447.2	3484.9	3493.5	3608.6	3826.6	4200.8	4750.2	5186.3
22.5°	4070.4	4063.5	3821.4	3692.7	3691.0	3691.0	3751.0	3919.3	4267.8	4858.4	5342.5
25°	4545.9	4509.9	4194.0	4027.5	3981.1	3977.7	3970.8	4072.1	4353.6	4973.3	5527.9
27.5°	5033.5	4971.7	4690.1	4434.3	4334.8	4322.7	4278.1	4288.4	4463.5	5103.9	5739.0
30°	5471.2	5431.8	5167.4	4884.1	4765.6	4738.2	4614.6	4557.9	4647.2	5339.0	6075.5
32.5°	5806.0	5782.0	5575.9	5318.4	5143.3	5138.2	4957.9	4911.5	4933.9	5624.0	6460.1
35°	6077.2	6085.8	5981.1	5757.9	5557.1	5527.9	5407.7	5349.3	5284.1	6036.0	6944.1
37.5°	6448.0	6467.0	6460.1	6267.8	6022.3	6029.1	6001.7	5905.6	5732.2	6496.1	7481.5
40°	6856.6	6870.4	6868.6	6794.8	6666.0	6672.9	6662.7	6552.7	6293.5	7081.5	8078.9
42.5°	7421.4	7356.1	7186.3	7260.0	7335.6	7368.2	7438.6	7333.9	6978.5	7706.4	8640.3
45°	8053.2	7929.5	7545.0	7579.3	7859.1	7921.0	8309.0	8164.8	7721.8	8424.0	9301.2
47.5°	8451.5	8329.6	8005.1	7998.2	8369.0	8429.2	9115.9	9062.6	8398.2	9198.3	10108.1
50°	8806.8	8789.6	8424.0	8511.5	8873.8	8963.0	9994.8	9945.0	9072.9	10111.5	10987.1
52.5°	9333.8	9194.8	8903.0	9083.2	9562.2	9678.9	10866.9	10721.0	9692.6	10918.4	11840.3
55°	9570.7	9538.1	9521.0	9677.2	10334.7	10418.8	11715.0	11380.2	10221.4	11601.7	12489.2
57.5°	10204.3	10144.1	10314.1	10420.6	11244.6	11373.3	12600.8	12068.6	10684.9	12144.1	12805.1
60°	11024.8	10992.2	11148.5	11340.7	12260.9	12456.6	13610.2	12655.7	11057.5	12417.1	12631.7
62.5°	12250.6	12247.1	12218.0	12630.0	13701.2	13881.5	14769.1	13227.4	11115.8	12212.8	11735.6
65°	14008.5	13946.7	13692.7	14142.4	15493.5	15704.7	15975.9	13546.7	10763.9	11163.9	9881.5
67.5°	15847.1	15843.7	15637.7	16221.4	18066.9	18284.9	17484.9	13476.4	9787.1	9043.7	7018.0
70°	17371.6	17297.8	17560.4	19115.8	21354.4	21606.7	18805.0	12647.1	7795.6	5972.5	4169.9
72.5°	17737.3	17740.6	18286.6	21347.5	24511.4	24551.0	19280.6	10250.6	5217.1	3294.4	2085.8
74°	16611.1	16640.3	17486.6	21459.1	25100.3	24921.8	18065.1	8056.6	3527.9	2151.0	1503.9
75°	15162.1	14978.5	16202.5	20715.8	24489.2	24296.8	16642.0	6465.2	2691.9	1718.4	1316.8
77.5°	8106.4	8293.5	10181.9	15459.2	19895.2	19673.7	11284.0	3100.4	1454.1	1196.6	947.6
80°	2885.8	3182.8	4473.8	8089.2	12755.3	12824.0	5385.3	1421.5	1023.2	882.4	669.5
82.5°	1177.7	1210.3	1921.0	3589.6	6477.2	6539.0	2199.1	844.6	731.3	607.7	400.0
85°	460.1	473.8	849.7	1613.7	2763.9	2944.2	760.5	446.3	449.8	348.5	204.3
87.5°	154.5	175.1	348.5	537.3	939.1	920.1	221.4	132.2	161.4	151.0	63.5
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: P652090

CATALOG NUMBER: GALN-SA8A-840-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
2.5°	4746.8	4779.4	4801.7	4825.7	4848.0	4854.9	4849.8	4865.2	4867.0	4868.6	4870.4
5°	4774.2	4818.8	4861.7	4885.8	4896.1	4887.6	4858.4	4842.9	4829.2	4818.8	4822.3
7.5°	4811.9	4875.5	4915.0	4925.3	4897.8	4858.4	4786.2	4729.6	4693.5	4669.5	4667.8
10°	4870.4	4932.1	4964.8	4935.6	4860.1	4763.9	4650.6	4544.2	4463.5	4439.5	4437.7
12.5°	4944.2	5014.5	5012.9	4927.0	4794.8	4623.1	4439.5	4315.8	4206.0	4151.1	4173.4
15°	5040.3	5093.5	5043.7	4889.2	4679.8	4444.6	4218.0	4049.8	3926.1	3867.8	3871.2
17.5°	5151.9	5198.2	5066.1	4822.3	4518.4	4216.3	3953.6	3794.0	3696.1	3653.2	3649.8
20°	5291.0	5304.7	5066.1	4705.6	4310.7	3950.2	3699.6	3588.0	3533.0	3510.7	3517.6
22.5°	5440.3	5412.8	5038.6	4540.7	4037.7	3672.1	3503.9	3454.1	3426.6	3423.1	3426.6
25°	5608.5	5531.3	4981.9	4317.6	3752.8	3431.7	3333.9	3342.5	3347.6	3347.6	3359.6
27.5°	5814.6	5660.0	4887.6	4036.0	3419.8	3208.6	3181.1	3241.2	3268.6	3273.8	3282.4
30°	6085.8	5800.8	4731.3	3684.1	3136.4	3007.7	3055.8	3136.4	3167.4	3186.2	3182.8
32.5°	6408.6	5955.4	4520.1	3332.2	2908.2	2867.0	2925.3	3007.7	3042.1	3052.3	3038.6
35°	6788.0	6130.5	4242.0	3002.5	2709.0	2733.0	2801.7	2827.4	2858.4	2858.4	2865.2
37.5°	7196.5	6271.2	3902.2	2700.5	2554.5	2642.1	2691.9	2667.8	2654.0	2636.9	2645.4
40°	7612.0	6376.0	3461.0	2401.7	2400.0	2547.6	2561.3	2492.7	2437.7	2420.6	2412.0
42.5°	7974.2	6441.1	3062.7	2169.9	2254.0	2455.0	2465.2	2355.4	2267.8	2216.3	2199.1
45°	8401.7	6516.7	2673.0	1977.7	2118.5	2381.1	2406.9	2259.2	2130.4	2022.3	1994.9
47.5°	8987.1	6688.4	2365.6	1828.3	2020.6	2334.8	2370.8	2180.2	2010.3	1869.5	1847.2
50°	9648.0	6923.5	2127.1	1727.0	1945.1	2293.6	2338.1	2099.6	1898.7	1742.5	1725.3
52.5°	10254.1	7050.6	1921.0	1636.1	1871.2	2218.1	2295.3	2041.2	1788.8	1615.5	1600.0
55°	10585.3	6844.6	1718.4	1546.8	1770.0	2120.2	2235.2	1960.5	1682.4	1548.4	1526.2
57.5°	10630.0	6418.8	1534.7	1450.6	1663.5	2000.0	2123.6	1862.6	1613.7	1502.1	1483.3
60°	10284.9	5783.6	1392.3	1371.7	1555.3	1864.3	1998.3	1776.8	1543.3	1450.6	1431.7
62.5°	9426.5	5093.5	1292.7	1299.6	1445.5	1721.9	1905.5	1694.4	1476.4	1394.0	1376.8
65°	7950.1	4204.2	1196.6	1225.8	1347.6	1610.3	1821.4	1625.7	1409.4	1351.1	1335.6
67.5°	5522.7	3035.2	1117.6	1148.5	1254.9	1497.0	1723.6	1551.9	1333.9	1303.0	1279.0
70°	3057.5	1867.8	1024.9	1060.9	1158.8	1370.0	1613.7	1440.3	1224.0	1210.3	1176.0
72.5°	1606.9	1189.7	920.1	959.7	1028.3	1206.8	1445.5	1318.4	1115.8	1057.5	1012.9
74°	1254.9	975.1	849.7	891.0	937.3	1110.7	1345.9	1230.9	1038.6	969.9	935.6
75°	1093.6	868.7	789.7	842.9	884.1	1045.4	1268.6	1169.1	995.7	930.5	899.5
77.5°	772.5	650.7	645.5	709.0	731.3	916.8	1143.3	1064.4	887.5	818.9	789.7
80°	542.4	487.5	511.6	551.1	582.0	810.3	1060.9	920.1	727.9	647.2	636.9
82.5°	353.6	319.3	365.7	401.7	412.0	597.4	856.6	698.7	530.5	430.9	400.0
85°	163.1	159.6	209.4	204.3	202.6	291.8	508.1	408.6	305.6	228.3	214.6
87.5°	41.2	39.4	51.5	42.9	51.5	44.7	46.3	12.0	1.7	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)