

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: P652088

Luminaire Tested: **GALN-SA8A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30797.4 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

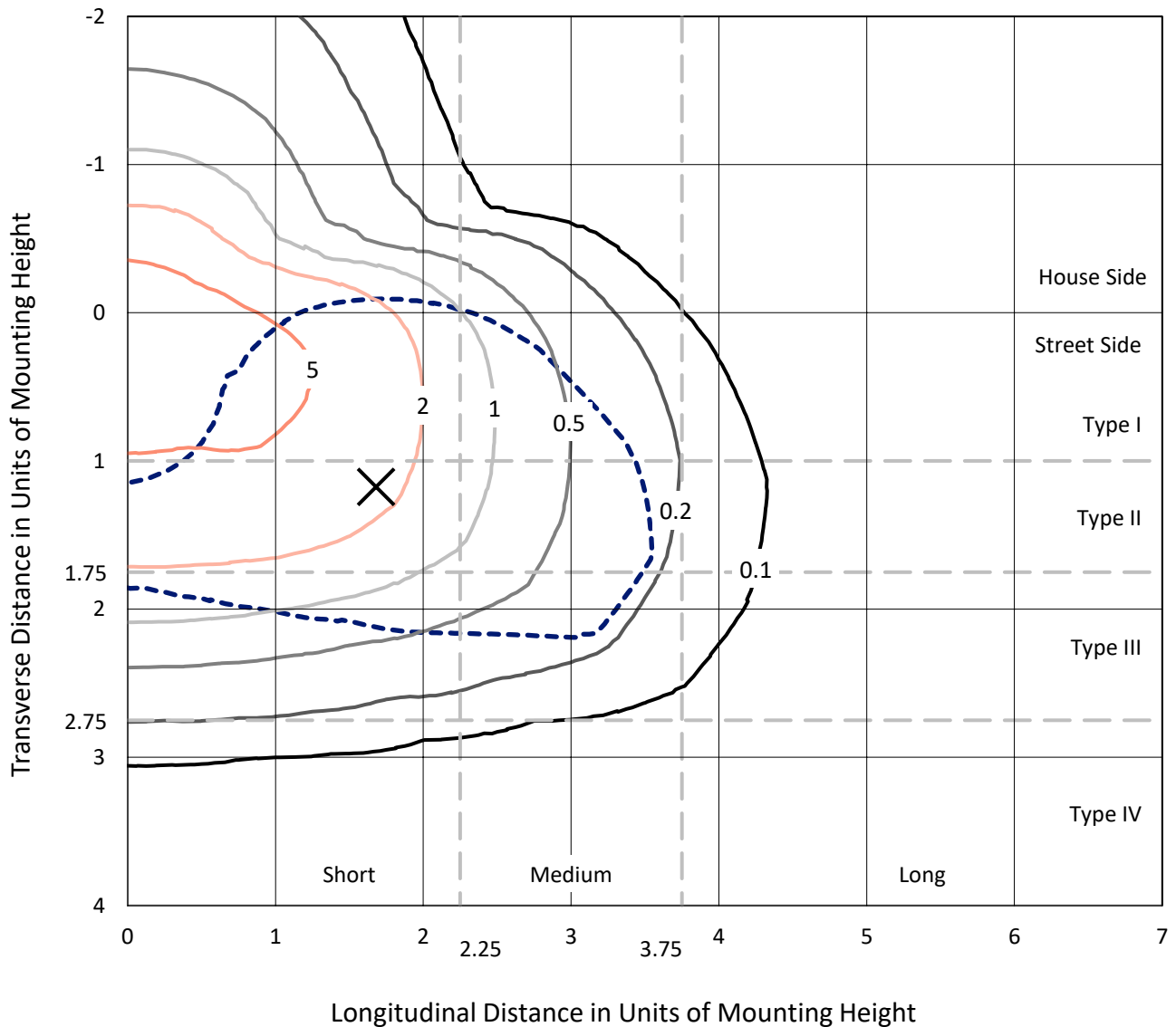
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

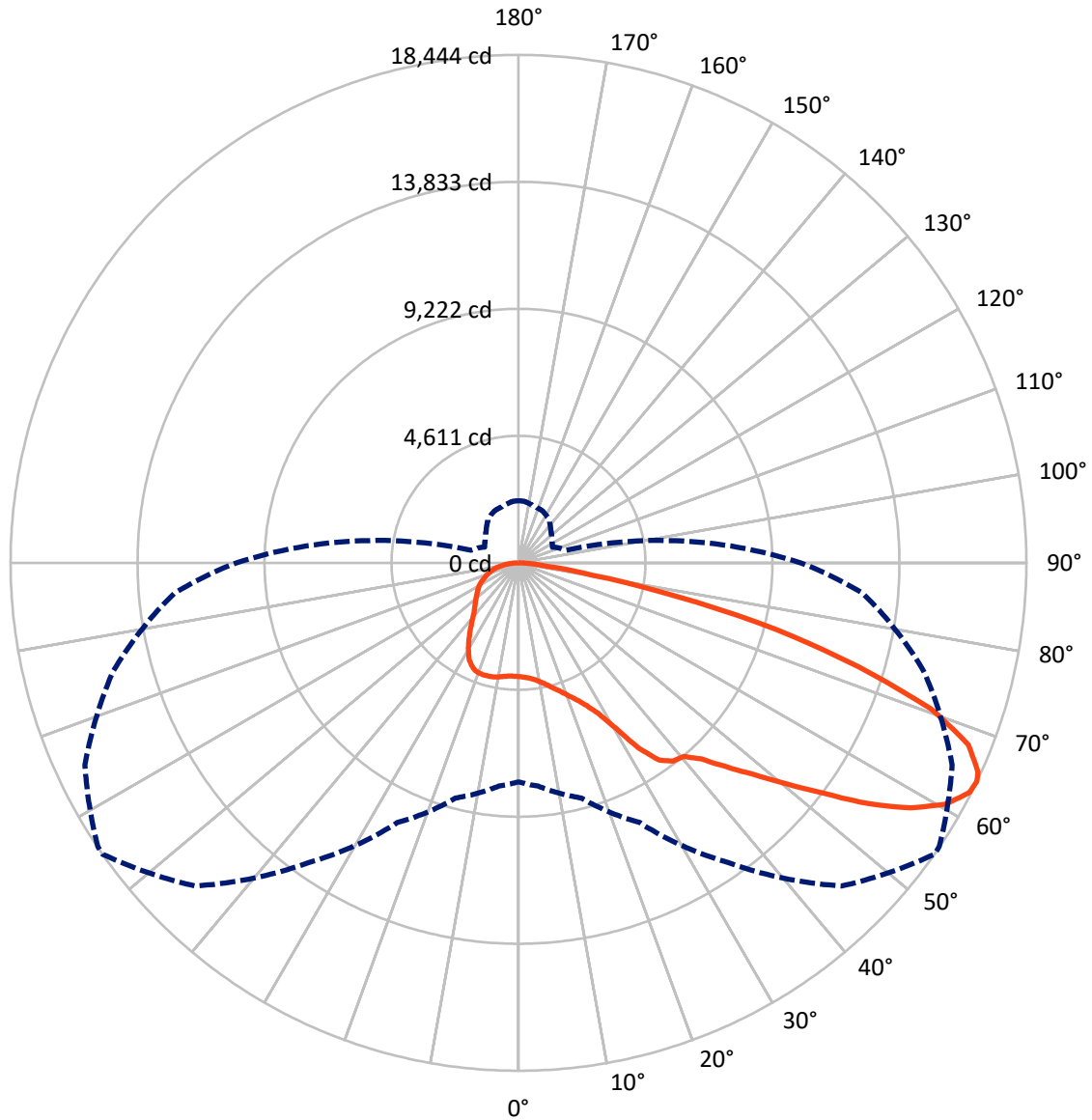
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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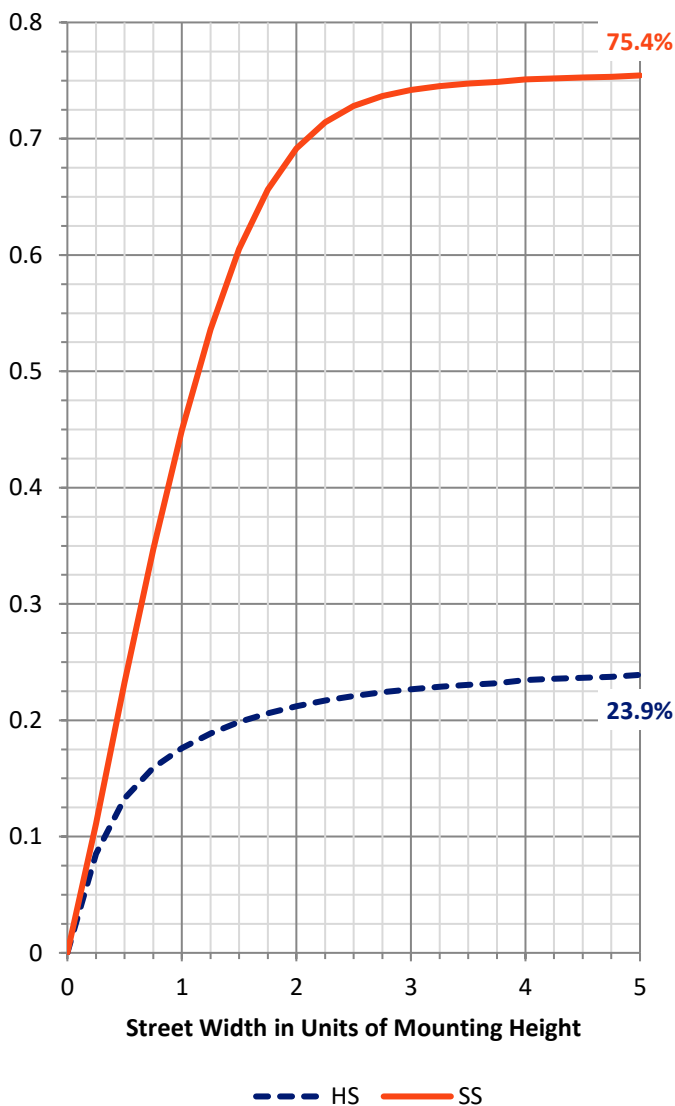
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7481.3	0.0	7481.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23316.1	0.0	23316.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	30797.4	0.0	30797.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.3
10°-20°	1268.2	4.1
20°-30°	2257.8	7.3
30°-40°	3473.9	11.3
40°-50°	4924.5	16.0
50°-60°	7128.1	23.1
60°-70°	7376.9	24.0
70°-80°	3454.6	11.2
80°-90°	511.4	1.7
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°	30797.4	100.0
0°-180°	30797.4	100.0

Coefficient of Utilization



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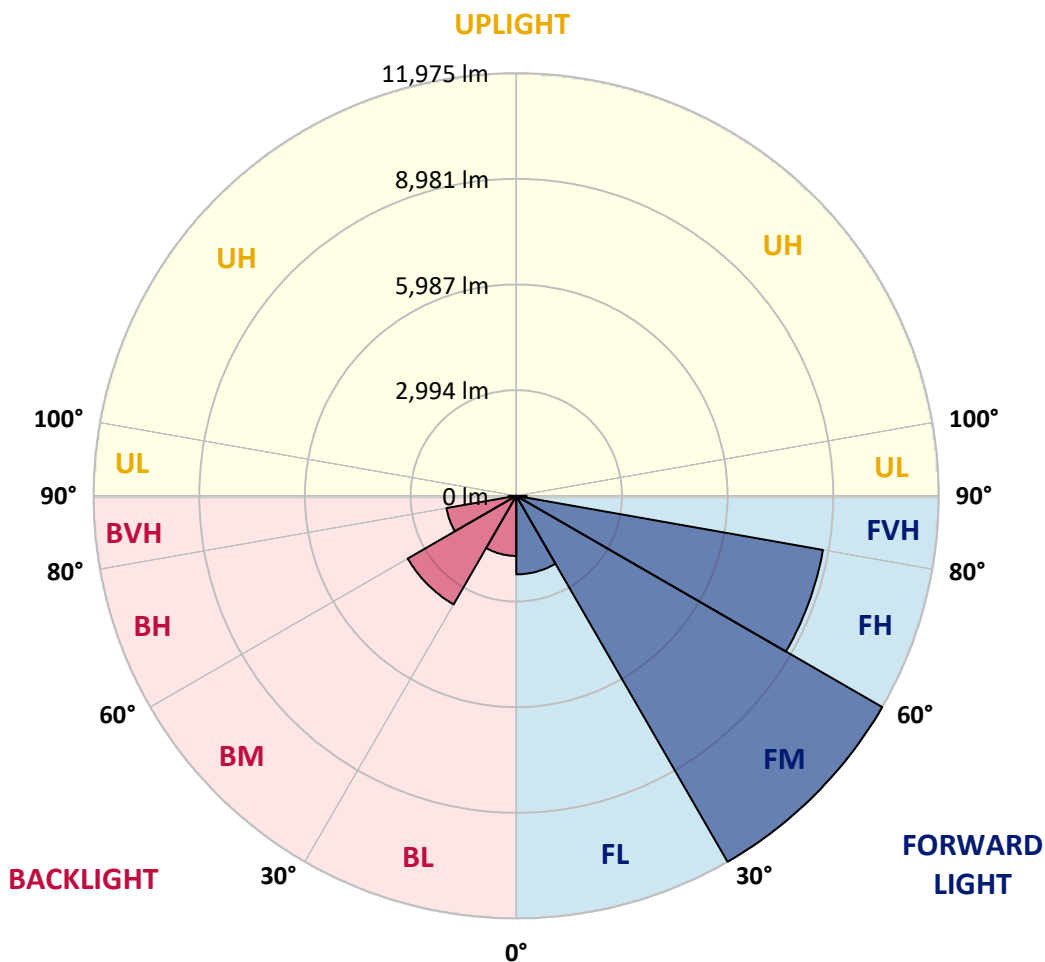
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2224.1	7.2			
FM	(30°-60°)	11974.9	38.9			
FH	(60°-80°)	8824.4	28.7			G4/12000
FVH	(80°-90°)	292.8	1.0			G3/500
BL	(0°-30°)	1703.9	5.5	B3/2500		
BM	(30°-60°)	3551.7	11.5	B3/5000		
BH	(60°-80°)	2007.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	218.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1
2.5°	4178.4	4176.7	4181.9	4176.7	4180.2	4168.2	4163.0	4166.4	4161.3	4152.7	4137.2
5°	4230.0	4228.2	4230.0	4223.1	4226.5	4219.6	4207.6	4211.1	4202.5	4183.6	4161.3
7.5°	4317.5	4310.6	4310.6	4308.9	4302.1	4291.7	4283.1	4279.7	4271.1	4247.1	4212.7
10°	4430.8	4430.8	4432.5	4418.8	4427.4	4408.4	4399.9	4398.2	4369.0	4338.0	4290.0
12.5°	4580.2	4588.7	4583.5	4576.7	4573.3	4566.4	4537.2	4544.1	4511.5	4458.2	4399.9
15°	4765.5	4779.3	4770.7	4767.3	4758.7	4732.9	4720.9	4715.7	4672.8	4595.6	4518.4
17.5°	5011.0	4993.9	4987.0	4978.4	4942.4	4923.5	4902.9	4899.4	4861.7	4770.7	4650.6
20°	5225.6	5249.7	5235.9	5227.3	5191.3	5155.2	5139.8	5134.6	5102.0	5002.4	4810.2
22.5°	5481.4	5486.5	5491.7	5471.1	5454.0	5426.5	5399.0	5390.4	5378.4	5275.4	5040.2
25°	5754.4	5775.0	5757.8	5737.2	5716.6	5714.8	5740.7	5737.2	5732.0	5632.5	5345.8
27.5°	6199.0	6217.8	6223.0	6200.7	6121.7	6128.6	6187.0	6205.8	6284.8	6120.0	5738.9
30°	6449.6	6468.5	6511.4	6595.5	6720.9	6830.8	6971.5	7014.4	7090.0	6779.2	6205.8
32.5°	6604.1	6611.0	6688.2	6844.5	7220.4	7630.7	8013.6	8028.9	8077.0	7641.0	6633.3
35°	6847.9	6853.1	6914.9	7086.5	7527.7	8210.9	8803.3	8822.1	8782.6	7908.8	6832.5
37.5°	7148.3	7162.0	7201.6	7344.0	7871.1	8696.8	9131.1	9117.4	8767.2	8121.7	7184.3
40°	7586.1	7586.1	7539.7	7732.0	8233.3	8974.9	9246.1	9222.1	9129.4	8738.0	7720.0
42.5°	7972.3	7965.4	8075.4	8205.8	8686.4	9404.1	9728.5	9768.0	9920.8	9512.2	8329.4
45°	8475.3	8506.2	8568.0	8804.9	9457.3	10137.1	10556.0	10593.7	10810.0	10423.8	9041.8
47.5°	8983.5	8993.7	9187.8	9503.6	10411.7	11131.1	11474.4	11536.2	11733.6	11489.8	9809.2
50°	9343.9	9441.8	9752.6	10250.4	11395.4	12343.0	12610.9	12684.6	13033.1	12650.3	10703.6
52.5°	9725.1	9821.2	10200.6	10959.4	12525.0	13582.5	13912.1	13961.9	14324.1	13824.5	11618.6
55°	10051.2	10140.5	10571.4	11587.7	13424.5	14847.7	15445.1	15386.8	15560.1	14729.3	12324.2
57.5°	10104.4	10176.6	10719.0	11989.4	14101.0	15932.7	16789.3	16823.6	16622.8	15405.6	12906.1
60°	9692.4	9840.1	10463.2	11946.5	14404.8	16688.0	17791.9	17815.8	17245.9	15752.4	13137.8
62.5°	8962.9	8947.4	9701.0	11256.4	13979.0	16859.7	18382.3	18356.6	17489.7	15585.8	12913.0
64°	7955.2	8140.5	8844.4	10408.3	13292.3	16595.3	18444.1	18430.4	17373.0	15239.1	12530.1
65°	7340.6	7330.3	8025.6	9714.8	12609.1	16197.0	18334.3	18315.4	17129.2	14928.3	12233.2
67.5°	5299.5	5323.4	6010.1	7496.8	10250.4	14640.0	17618.4	17548.1	16167.8	13898.4	11103.6
70°	3210.2	3224.0	3763.0	4973.3	7357.7	11834.9	15881.1	15884.6	14696.6	12360.2	9450.4
72.5°	1690.9	1727.0	1943.3	2824.0	4468.6	8303.6	12883.8	13189.4	12617.7	10549.1	7465.9
75°	940.7	945.9	1098.7	1392.3	2279.8	4647.1	9683.9	9771.4	9989.5	8490.7	5520.9
77.5°	717.5	727.9	775.9	899.5	1241.1	2154.5	5860.8	6300.3	7040.2	5986.2	3150.1
80°	582.0	592.2	633.4	707.3	825.7	1021.4	2722.7	2959.6	3768.2	2657.5	1229.1
82.5°	453.2	446.3	499.6	547.7	600.8	604.3	1117.6	1236.0	1534.7	1143.3	532.2
85°	336.5	336.5	379.4	369.1	388.0	353.6	492.7	544.2	614.6	485.8	247.2
87.5°	133.9	147.6	248.9	223.2	173.4	139.0	182.0	192.3	212.9	190.6	103.0
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°	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1
2.5°	4139.0	4144.1	4132.1	4123.5	4120.1	4114.9	4109.8	4111.5	4118.4	4125.2	4123.5
5°	4159.6	4161.3	4140.7	4130.4	4123.5	4116.6	4116.6	4121.8	4135.5	4145.8	4145.8
7.5°	4211.1	4211.1	4181.9	4163.0	4152.7	4140.7	4137.2	4139.0	4149.2	4163.0	4164.7
10°	4291.7	4284.9	4247.1	4218.0	4199.0	4169.8	4144.1	4130.4	4135.5	4144.1	4144.1
12.5°	4389.6	4370.7	4322.7	4283.1	4236.8	4181.9	4128.6	4101.2	4099.5	4108.0	4104.6
15°	4494.3	4473.7	4406.8	4334.7	4253.9	4173.3	4109.8	4070.3	4039.4	4030.8	4049.7
17.5°	4616.2	4573.3	4480.6	4381.0	4260.8	4156.1	4056.6	3975.8	3920.9	3905.5	3910.6
20°	4763.8	4707.2	4581.9	4425.7	4255.7	4094.3	3939.8	3831.7	3742.4	3714.9	3718.4
22.5°	4968.1	4870.2	4686.6	4448.0	4212.7	3977.6	3763.0	3622.2	3514.0	3471.1	3496.9
25°	5199.9	5093.4	4786.1	4442.8	4101.2	3790.5	3553.6	3369.9	3272.0	3208.5	3222.2
27.5°	5519.1	5330.3	4892.6	4396.5	3941.5	3562.1	3287.5	3114.1	3024.8	2992.2	3007.7
30°	5927.8	5637.6	5007.6	4271.1	3689.2	3273.8	3019.7	2906.3	2853.2	2812.0	2825.7
32.5°	6223.0	5853.9	5033.4	4060.0	3416.2	3011.1	2837.7	2753.6	2695.2	2655.7	2664.3
35°	6434.2	6037.6	5021.4	3800.7	3131.2	2794.8	2693.5	2624.8	2530.4	2444.5	2429.1
37.5°	6717.4	6267.6	4933.8	3517.5	2849.7	2648.9	2576.7	2449.7	2314.1	2199.0	2193.9
40°	7151.8	6537.2	4746.7	3184.4	2609.4	2540.7	2453.2	2288.4	2142.4	2049.8	2042.9
42.5°	7599.8	6786.1	4492.6	2834.3	2412.0	2427.4	2321.0	2157.9	2068.6	2008.6	2001.7
45°	8147.4	7055.7	4218.0	2530.4	2266.1	2321.0	2205.9	2111.5	2058.3	2018.8	2008.6
47.5°	8739.7	7332.0	3908.9	2257.4	2142.4	2223.1	2157.9	2114.9	2085.8	2058.3	2046.3
50°	9378.3	7641.0	3618.8	2037.7	2030.8	2121.8	2152.7	2137.3	2120.1	2111.5	2101.2
52.5°	10078.7	7956.9	3375.0	1883.3	1933.0	2049.8	2154.5	2166.5	2166.5	2161.3	2154.5
55°	10552.5	8176.6	3127.8	1757.9	1833.5	1991.4	2151.0	2197.4	2214.5	2207.7	2200.8
57.5°	10902.7	8296.8	2817.1	1649.7	1749.3	1934.7	2132.1	2200.8	2218.0	2226.5	2223.1
60°	10974.8	8185.2	2410.2	1536.4	1658.4	1852.3	2063.5	2149.3	2171.6	2224.9	2230.0
62.5°	10650.3	7841.8	2005.1	1424.8	1546.8	1727.0	1970.8	2090.9	2135.6	2218.0	2226.5
64°	10252.1	7457.3	1780.2	1354.4	1474.6	1656.6	1924.4	2075.5	2133.9	2243.7	2250.6
65°	9960.3	7177.5	1639.4	1309.9	1428.3	1610.3	1898.6	2080.6	2149.3	2283.2	2293.5
67.5°	8885.6	6214.4	1356.2	1205.2	1318.4	1531.3	1903.9	2123.5	2145.9	2298.6	2296.9
70°	7352.6	4947.5	1136.4	1109.0	1212.0	1467.8	1883.3	2054.9	2056.6	2157.9	2133.9
72.5°	5505.4	3656.6	985.4	1009.5	1093.6	1316.7	1778.5	1962.2	1933.0	1946.7	1922.7
75°	3781.9	2418.8	848.1	903.0	969.9	1163.9	1630.9	1781.9	1735.6	1718.4	1701.3
77.5°	2018.8	1337.3	705.6	798.3	842.9	1006.0	1423.1	1569.1	1521.0	1454.0	1431.7
80°	817.1	630.0	568.3	660.9	686.7	810.3	1184.5	1275.5	1239.5	1122.7	1085.0
82.5°	410.3	377.7	446.3	520.2	521.8	578.5	880.7	966.5	885.8	743.4	710.7
85°	214.6	221.4	307.3	365.7	322.8	312.4	528.7	585.4	537.3	466.9	420.6
87.5°	77.3	89.2	161.4	159.6	113.3	60.0	116.7	56.7	30.9	18.9	24.1
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)