

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: P651089

Luminaire Tested: **GALN-SA8C-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48657.7 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

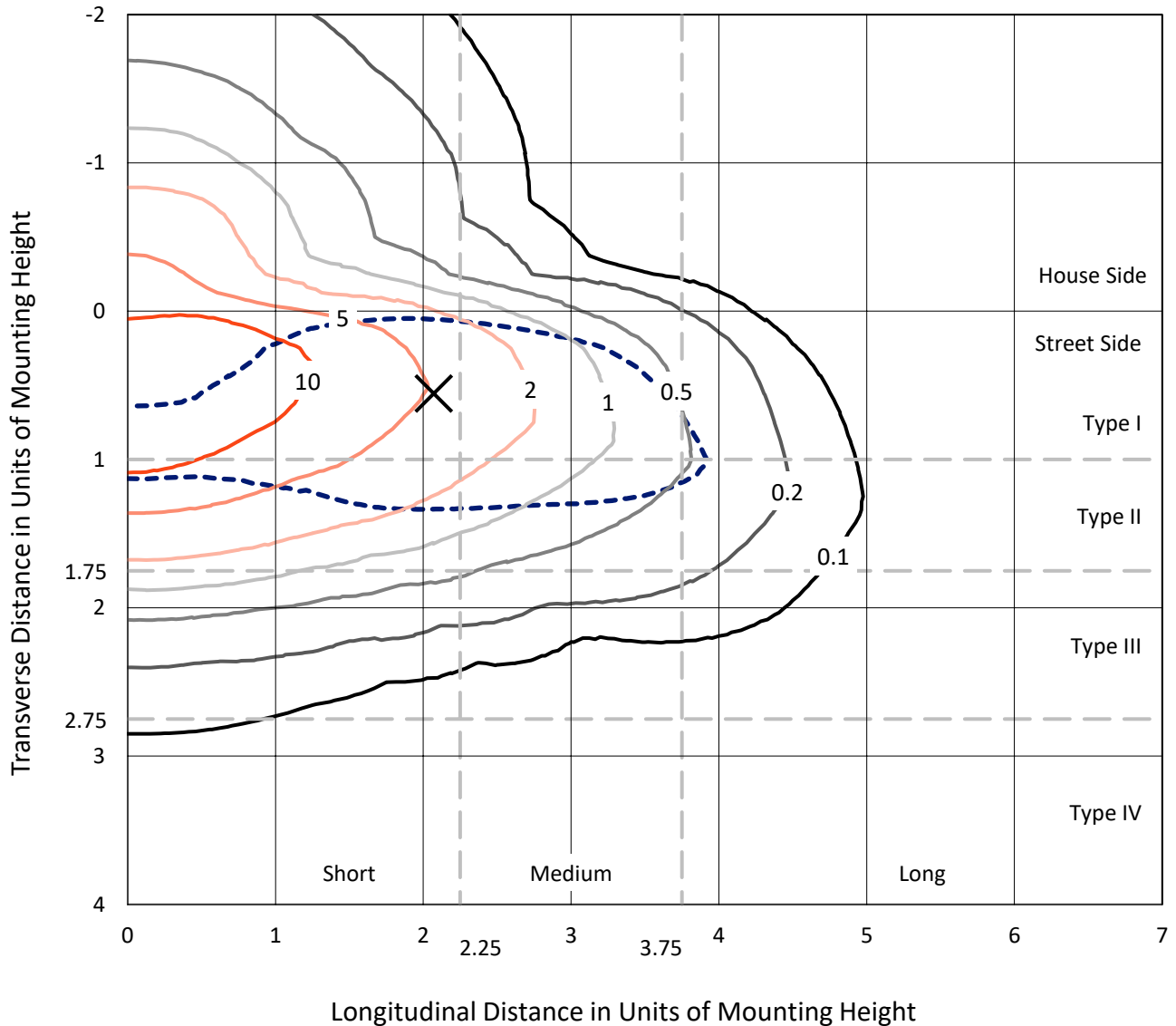
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

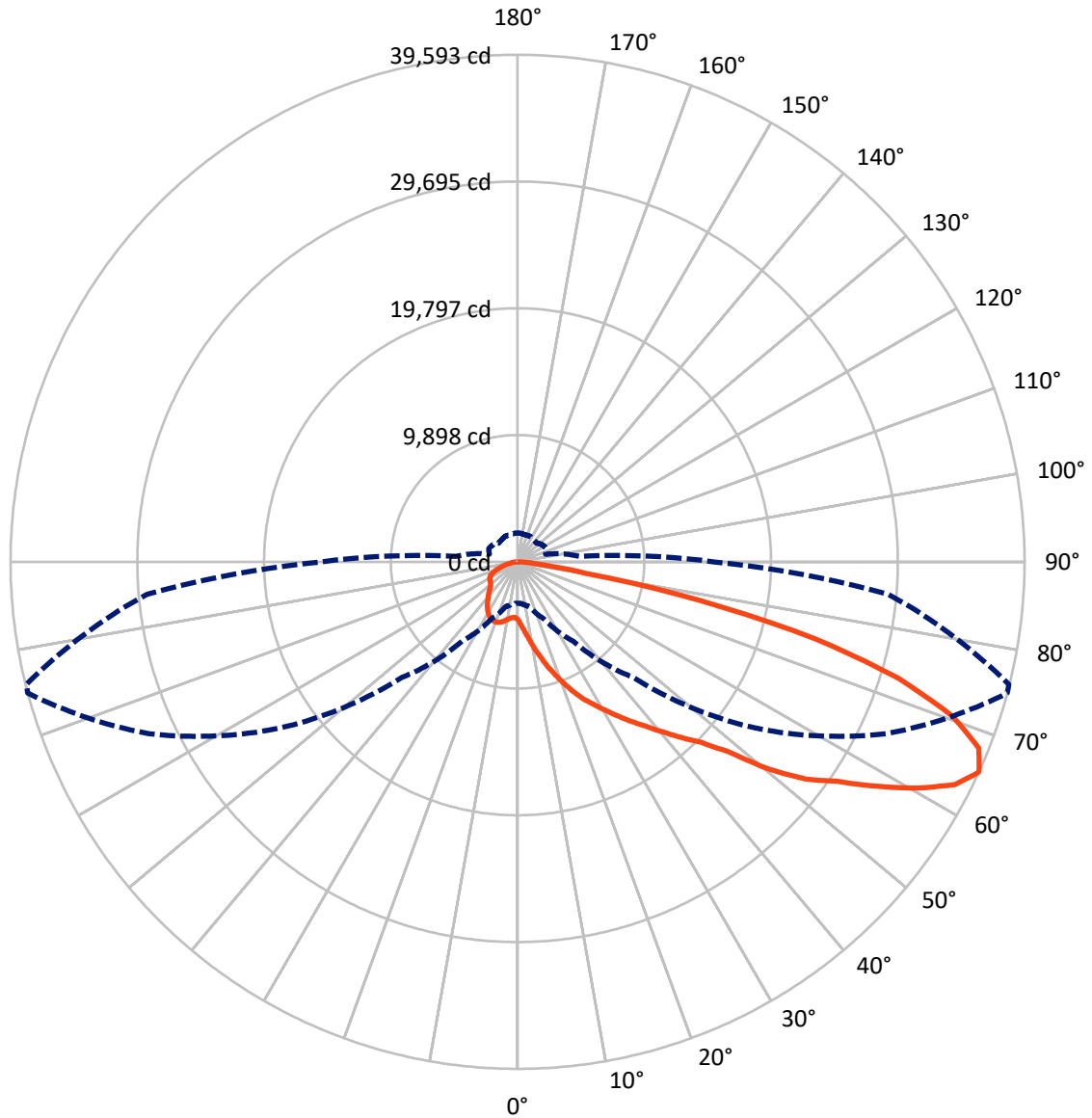
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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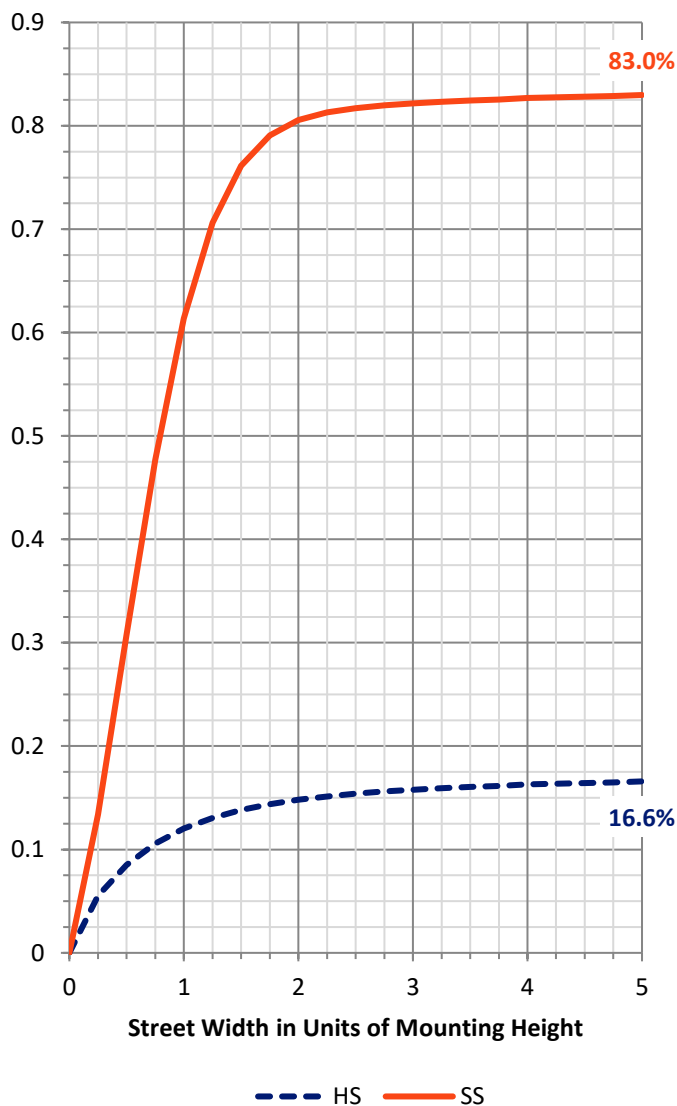
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8180.0	0.0	8180.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	40477.7	0.0	40477.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	48657.7	0.0	48657.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.3	1.1
10°-20°	2151.4	4.4
20°-30°	4155.9	8.5
30°-40°	6750.4	13.9
40°-50°	9285.7	19.1
50°-60°	10963.3	22.5
60°-70°	9605.7	19.7
70°-80°	4585.8	9.4
80°-90°	610.2	1.3
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°	48657.7	100.0
0°-180°	48657.7	100.0

**Coefficient of Utilization**



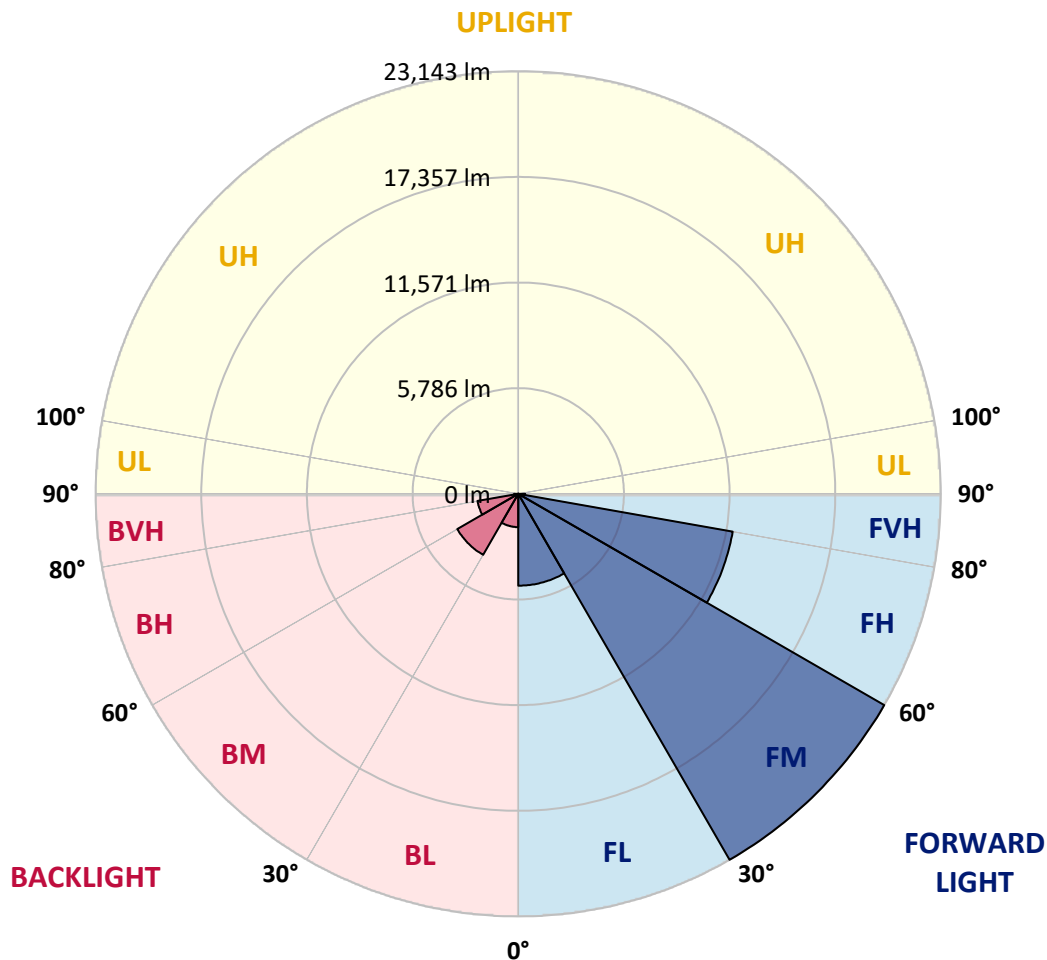
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 CATALOG NUMBER: GALN-SA8C-840-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5030.4	10.3			
FM (30°-60°)	23142.6	47.6			
FH (60°-80°)	11923.3	24.5			G4/12000
FVH (80°-90°)	381.3	0.8			G3/500
BL (0°-30°)	1826.2	3.8	B3/2500		
BM (30°-60°)	3856.8	7.9	B3/5000		
BH (60°-80°)	2268.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	228.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9
2.5°	6006.8	5967.2	5924.9	5808.9	5684.8	5544.9	5344.3	5151.7	4895.7	4887.7	4697.7
5°	7672.1	7645.7	7458.3	7350.1	7062.5	6679.8	6355.2	5851.1	5383.9	5328.5	4959.0
7.5°	9202.8	9099.9	9028.6	8833.4	8548.3	8057.5	7429.3	6748.4	5967.2	5893.3	5281.0
10°	10356.2	10345.6	10308.6	10139.8	9926.0	9437.7	8740.9	7764.4	6706.1	6561.0	5671.6
12.5°	11219.2	11227.1	11221.8	11219.2	11066.1	10651.8	9897.0	8867.7	7453.0	7350.1	6122.9
15°	11786.6	11865.8	11897.5	12029.4	12042.6	11765.5	11116.3	9933.9	8295.0	8141.9	6608.5
17.5°	12161.4	12201.0	12348.7	12573.0	12755.2	12705.0	12127.1	10921.0	9155.3	8899.3	7112.6
20°	12520.3	12588.9	12702.4	13008.5	13330.5	13478.3	13071.8	11931.8	10007.8	9844.2	7669.5
22.5°	13267.2	13364.8	13404.4	13560.1	13834.6	14095.8	13911.1	12900.4	10942.1	10720.4	8260.6
25°	14531.3	14634.2	14523.4	14486.5	14576.2	14705.6	14665.9	13813.5	11823.5	11506.8	8820.2
27.5°	16178.1	16191.4	15975.0	15769.1	15547.4	15481.5	15360.0	14623.7	12588.9	12324.9	9382.3
30°	17946.4	17883.1	17524.2	17152.0	16777.3	16407.8	16059.4	15404.9	13441.4	13137.8	9933.9
32.5°	19588.0	19553.7	19155.2	18577.2	17943.8	17595.4	16890.7	16194.0	14354.5	14061.5	10501.3
35°	20817.9	20868.0	20429.9	19799.2	19107.7	18798.9	17909.5	17022.7	15299.3	14980.0	11118.9
37.5°	21691.4	21665.0	21277.0	20730.7	20123.8	19854.6	19099.8	17927.9	16315.4	16009.3	11794.5
40°	22002.8	21987.0	21699.3	21300.8	20915.5	20820.5	20345.5	18904.4	17479.3	17120.4	12607.3
42.5°	21804.9	21839.3	21649.2	21541.0	21469.7	21538.3	21583.3	20184.4	18748.7	18418.8	13488.9
45°	21197.9	21179.4	21153.0	21329.9	21731.0	22182.3	22807.8	21393.2	20129.0	19865.1	14671.2
47.5°	20113.2	20245.1	20311.2	20799.4	21675.6	22744.5	24217.1	23013.6	22132.2	21902.6	16473.8
50°	18595.7	18701.2	19091.9	19960.1	21266.5	22955.6	25594.8	25663.4	25473.4	25043.2	18432.0
52.5°	16225.7	16389.3	17194.2	18785.7	20427.3	22868.5	26428.8	27935.7	28186.5	27864.5	20361.3
55°	13573.3	13802.9	14652.7	16740.4	19271.3	22393.5	27004.1	29252.7	30253.0	29954.7	22219.3
57.5°	10976.4	11219.2	12092.7	14114.3	17255.0	21343.1	27381.5	30720.0	33066.3	32678.3	24531.2
60°	8226.3	8479.7	9229.2	11311.5	14383.5	19289.8	27125.5	31992.1	35877.1	35710.8	26845.7
62.5°	5307.4	5587.2	6239.0	7962.4	11055.5	16484.4	25755.8	32694.2	38310.3	38109.7	28534.8
65°	3233.0	3264.7	3623.6	4943.1	7566.6	12763.1	22623.1	31762.6	39593.0	39532.3	29049.5
67.5°	2090.2	2140.3	2304.0	2961.2	4536.8	8865.0	18089.0	28687.9	38843.4	38822.3	27985.9
70°	1765.6	1781.4	1855.3	1997.9	2636.5	5376.0	12702.4	23786.9	35995.8	35995.8	25428.5
72.5°	1578.2	1599.3	1625.7	1670.6	1881.7	3045.6	7579.8	18516.5	31079.0	31284.9	21643.9
75°	1433.1	1427.8	1443.7	1451.6	1604.6	1990.0	3919.1	13694.7	24042.9	23631.3	15674.1
77.5°	1227.2	1235.2	1227.2	1261.5	1417.3	1514.9	1990.0	9189.6	14570.9	14037.8	7867.4
80°	1008.2	1021.4	1034.6	1055.7	1211.4	1150.7	1195.6	4188.3	5389.2	5275.8	2430.7
82.5°	757.4	775.9	797.0	847.1	952.8	760.1	754.8	1789.4	1945.1	1781.4	894.7
85°	306.1	361.5	546.3	596.4	599.1	417.0	464.5	746.9	794.4	775.9	351.0
87.5°	71.2	84.4	176.9	266.6	245.4	155.8	171.6	242.8	277.1	256.0	118.7
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°	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9	4520.9
2.5°	4610.6	4518.3	4359.9	4238.6	4151.4	4074.9	4027.4	3998.4	3987.8	3985.2	3987.8
5°	4766.4	4602.7	4352.0	4193.6	4106.6	4056.4	4027.4	4024.8	4027.4	4030.1	4022.1
7.5°	4980.1	4745.3	4418.0	4270.2	4204.2	4167.2	4154.0	4148.8	4151.4	4148.8	4148.8
10°	5265.2	4943.1	4547.3	4394.2	4338.8	4296.6	4275.5	4262.3	4251.8	4241.2	4235.9
12.5°	5579.2	5162.2	4687.1	4539.4	4460.2	4394.2	4346.7	4312.4	4288.7	4264.9	4259.7
15°	5930.2	5394.5	4842.9	4637.0	4523.6	4425.9	4344.1	4288.7	4246.5	4212.1	4209.5
17.5°	6265.4	5613.5	4948.4	4681.9	4515.7	4378.4	4270.2	4193.6	4140.9	4096.0	4090.7
20°	6624.3	5822.1	4996.0	4652.9	4436.4	4270.2	4127.7	4035.3	3974.6	3924.4	3916.5
22.5°	6985.9	5998.9	4990.7	4560.5	4299.2	4103.9	3953.5	3855.8	3784.6	3734.5	3716.0
25°	7331.7	6141.4	4924.7	4412.7	4109.2	3906.0	3752.9	3663.1	3599.8	3539.2	3539.2
27.5°	7643.1	6225.8	4800.7	4233.3	3913.9	3700.1	3578.7	3496.9	3438.8	3399.2	3375.5
30°	7949.2	6265.4	4631.7	4006.3	3708.1	3526.0	3428.3	3380.8	3328.0	3283.2	3277.9
32.5°	8223.7	6257.5	4420.6	3784.6	3512.8	3383.4	3343.8	3306.9	3251.5	3188.1	3172.3
35°	8490.2	6204.7	4169.9	3541.8	3349.1	3299.0	3309.5	3256.8	3156.4	3077.3	3064.1
37.5°	8780.5	6109.7	3895.4	3343.8	3211.9	3259.4	3285.8	3169.6	3006.0	2882.0	2852.9
40°	9115.8	6001.5	3610.4	3145.9	3103.7	3222.5	3222.5	3008.7	2784.3	2707.8	2686.7
42.5°	9508.9	5911.7	3372.9	2979.7	3014.0	3132.7	3119.5	2794.9	2702.6	2662.9	2652.3
45°	10131.8	5880.1	3127.4	2834.5	2940.1	3027.2	2918.9	2721.0	2668.2	2636.5	2626.0
47.5°	11116.3	5917.0	2911.0	2726.3	2855.6	2921.5	2694.6	2670.8	2633.9	2589.0	2583.7
50°	12029.4	5882.7	2758.0	2665.5	2781.7	2794.9	2602.2	2610.1	2589.0	2538.9	2528.3
52.5°	12776.3	5774.6	2660.3	2633.9	2718.4	2573.2	2515.2	2544.2	2536.3	2472.9	2462.4
55°	13597.0	5708.5	2612.8	2633.9	2676.1	2380.5	2433.3	2475.6	2465.0	2420.1	2417.5
57.5°	14592.0	5721.7	2578.5	2641.8	2633.9	2282.9	2351.5	2401.6	2399.0	2385.8	2385.8
60°	15610.7	5727.0	2525.7	2639.1	2583.7	2206.4	2267.1	2338.3	2343.6	2351.5	2351.5
62.5°	15948.6	5497.4	2422.8	2591.7	2472.9	2132.4	2187.9	2285.5	2280.3	2301.4	2304.0
65°	15317.8	4861.4	2269.7	2483.5	2330.4	2079.7	2127.1	2216.9	2187.9	2243.3	2253.9
67.5°	13942.8	4022.1	2032.2	2288.2	2172.1	2024.3	2087.6	2121.9	2069.1	2177.3	2180.0
70°	12050.5	3140.6	1731.3	2011.1	1992.6	1966.2	2055.9	2003.2	1929.3	2061.2	2034.8
72.5°	10076.4	2399.0	1382.9	1644.2	1752.4	1879.1	2000.5	1850.0	1747.2	1786.7	1739.2
75°	7569.2	1773.5	1111.1	1287.9	1459.5	1755.1	1950.4	1665.3	1507.0	1470.0	1459.5
77.5°	3858.5	1158.6	831.3	963.3	1095.2	1586.1	1881.7	1448.9	1248.3	1190.3	1163.9
80°	1377.6	720.5	585.9	665.1	739.0	1364.4	1644.2	1198.2	968.6	958.0	968.6
82.5°	638.7	464.5	393.3	435.5	438.1	910.6	1253.6	894.7	736.3	1119.0	944.9
85°	274.5	232.3	221.7	216.4	200.6	406.5	704.7	480.3	749.5	335.1	308.8
87.5°	81.8	92.3	81.8	60.7	44.8	44.8	71.2	26.4	18.5	13.2	13.2
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)