

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: P532165

Luminaire Tested: **GALN-SA7C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26307 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

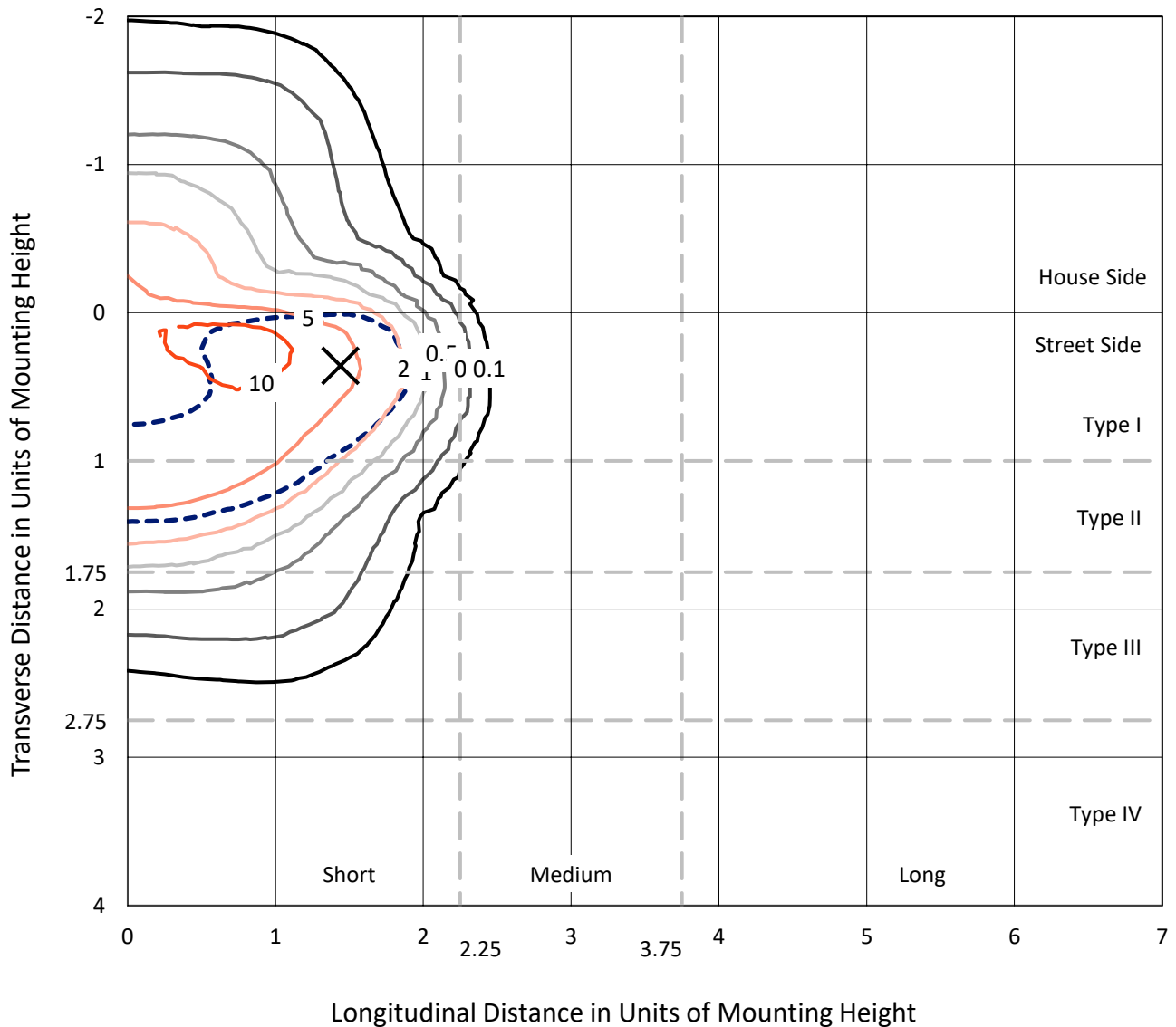
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

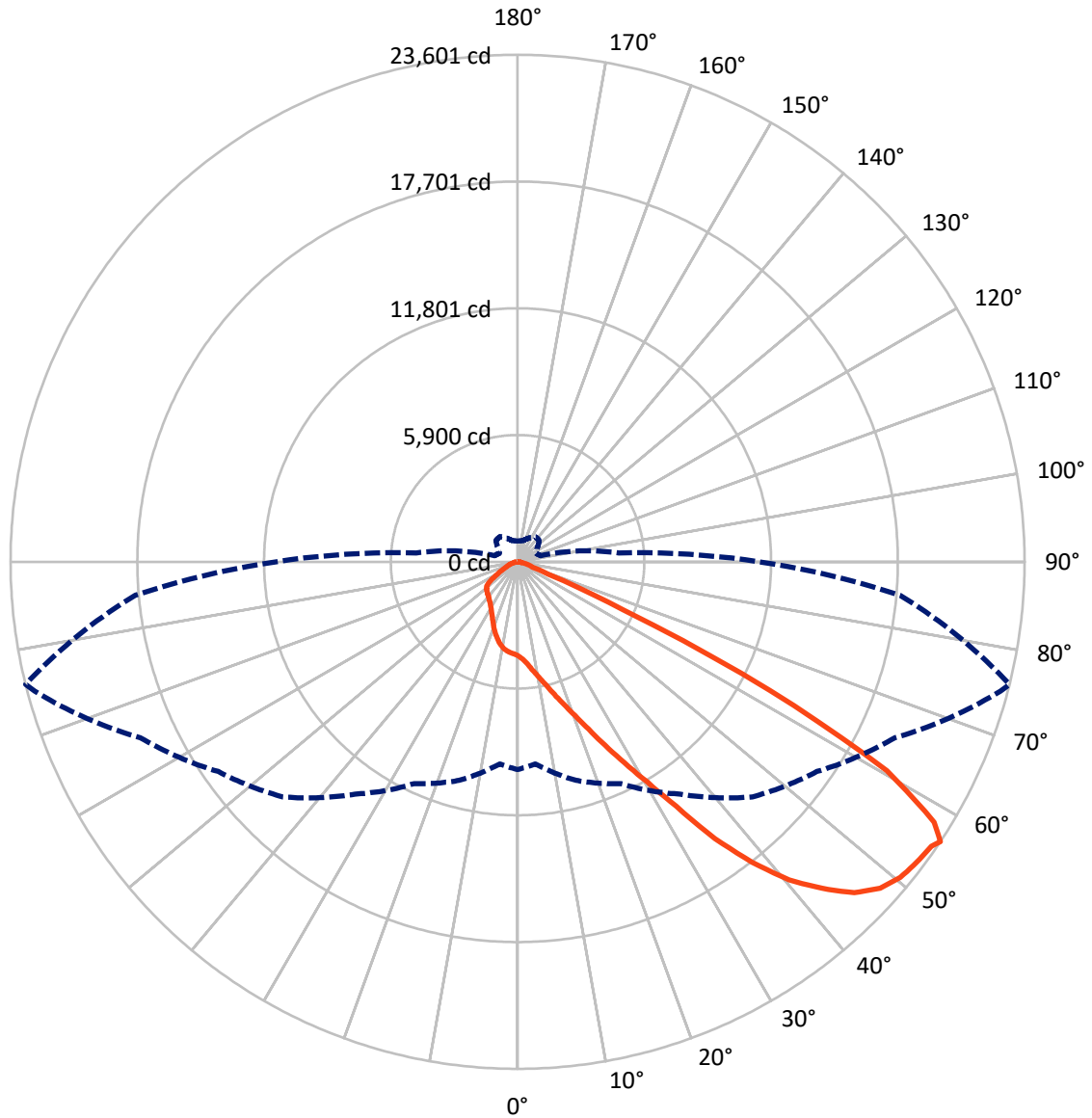
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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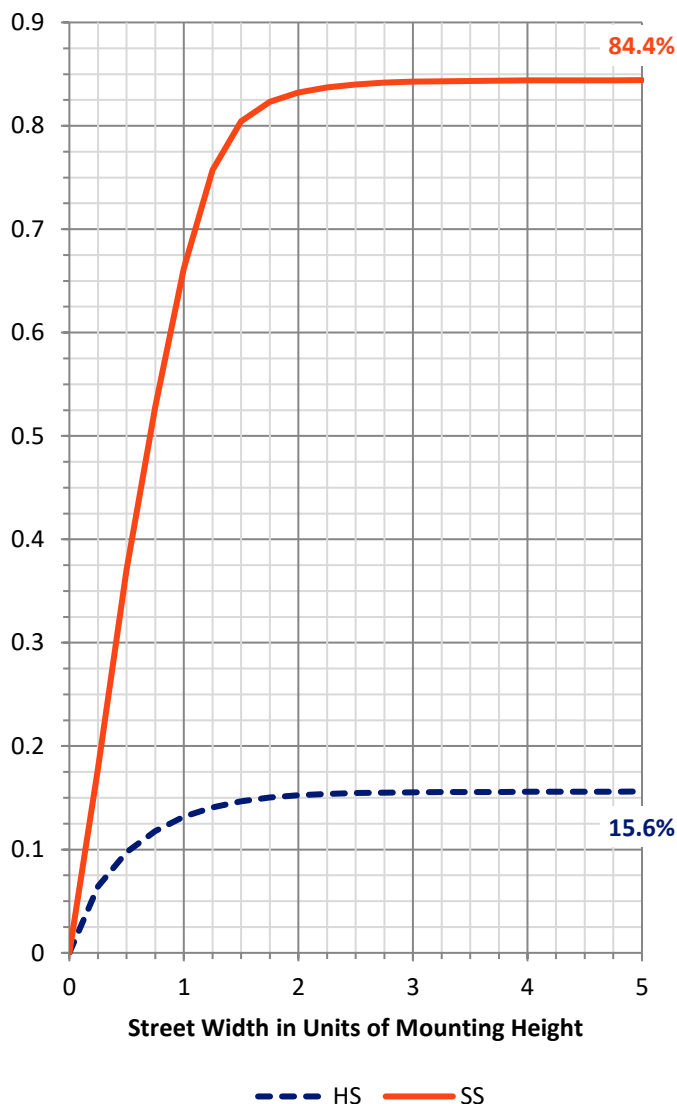
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4132.7	0.0	4132.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	22174.3	0.0	22174.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	26307.0	0.0	26307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.1	1.7
10°-20°	1417.1	5.4
20°-30°	2569.6	9.8
30°-40°	4431.4	16.8
40°-50°	7199.0	27.4
50°-60°	7588.0	28.8
60°-70°	2318.5	8.8
70°-80°	297.2	1.1
80°-90°	45.2	0.2
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°	26307.0	100.0
0°-180°	26307.0	100.0

**Coefficient of Utilization**

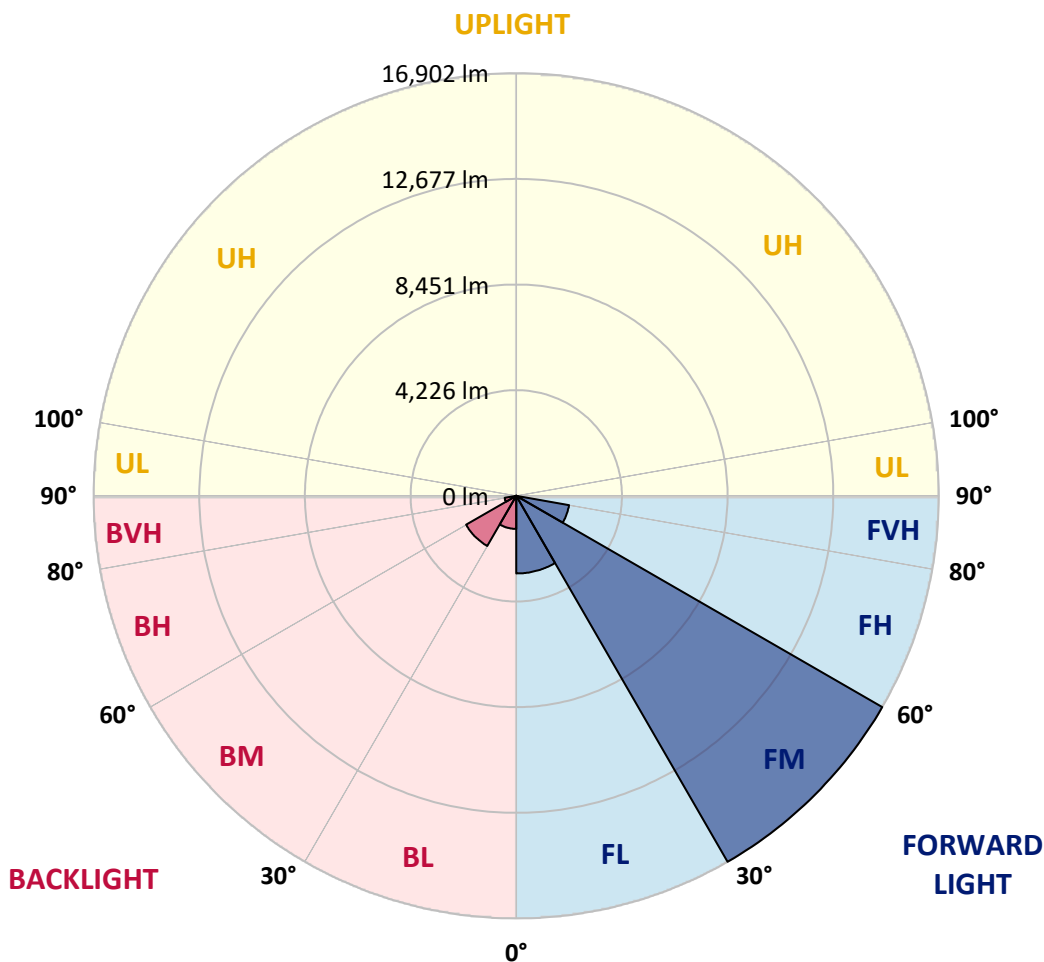


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.8	11.8			
FM (30°-60°)	16902.2	64.2			
FH (60°-80°)	2144.2	8.2			G2/5000
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1322.1	5.0	B3/2500		
BM (30°-60°)	2316.1	8.8	B2/2500		
BH (60°-80°)	471.5	1.8	B1/500		G1/500
BVH (80°-90°)	23.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8
2.5°	5043.2	4926.8	4931.7	4922.0	4907.4	4854.1	4694.0	4669.8	4563.1	4534.0	4437.0
5°	5649.3	5547.5	5605.7	5518.4	5436.0	5387.5	5125.6	5004.4	4834.7	4771.6	4635.8
7.5°	6027.6	5979.1	5959.7	5964.5	5886.9	5765.7	5649.3	5382.6	5154.7	5106.2	4820.1
10°	6211.8	6182.7	6211.8	6197.3	6231.2	6245.8	6042.1	5882.1	5547.5	5465.1	5018.9
12.5°	6255.5	6313.7	6337.9	6401.0	6483.4	6624.0	6609.5	6391.3	5945.1	5891.8	5324.4
15°	6362.2	6410.7	6386.4	6488.2	6643.4	6881.0	7007.1	6973.2	6493.1	6396.1	5678.4
17.5°	6459.2	6371.9	6454.3	6658.0	6813.1	7176.8	7482.3	7623.0	7089.5	6978.0	6003.3
20°	6590.1	6565.8	6551.3	6653.1	6929.5	7414.4	8020.6	8277.6	7758.7	7642.4	6468.9
22.5°	6987.7	6992.6	6982.9	6832.5	7031.4	7579.3	8491.0	9126.2	8558.9	8461.9	6997.4
25°	7511.4	7448.4	7399.9	7278.7	7254.4	7729.6	8966.2	10164.0	9519.0	9451.1	7569.6
27.5°	8064.2	8064.2	7918.8	7807.2	7652.1	8103.0	9402.6	11172.6	10678.0	10585.8	8069.1
30°	8665.5	8699.5	8680.1	8442.5	8345.5	8510.4	9848.8	12462.5	12006.7	11890.3	8893.5
32.5°	9553.0	9480.2	9562.6	9363.8	9077.7	9223.2	10551.9	13616.6	13733.0	13568.1	9974.8
35°	10726.5	10682.8	10629.5	10304.6	9965.1	10081.5	11546.0	15037.4	15900.6	15818.1	11065.9
37.5°	11778.7	11754.5	11710.9	11487.8	11095.0	11235.6	12675.8	16516.4	18014.8	17743.3	12608.0
40°	12884.4	13015.3	12874.7	12675.8	12317.0	12627.4	14004.5	17394.1	19794.5	19464.7	13786.3
42.5°	14382.8	14280.9	14344.0	13980.3	13786.3	14125.8	15338.1	18271.8	21176.5	20783.7	15037.4
45°	15978.2	15983.0	15813.3	15696.9	15192.6	15561.1	16157.6	18756.8	22277.3	21971.8	15983.0
47.5°	17001.3	16996.5	17180.8	17365.0	16846.2	16482.5	16715.2	19217.4	22844.6	22704.0	16327.3
50°	16841.3	16889.8	17127.4	17816.0	18087.6	17597.8	17239.0	19081.7	23101.7	23087.1	16623.1
52.5°	14649.5	14809.5	15207.1	16201.2	17568.7	18174.9	17786.9	19333.8	23227.7	23252.0	17064.4
55°	11153.2	11240.5	11997.0	13204.4	14717.4	16792.8	17568.7	19532.6	23324.7	23368.4	17597.8
56°	9674.2	9441.4	10532.5	11390.8	13199.6	15469.0	17015.9	19377.5	23266.5	23601.1	17864.5
57.5°	7302.9	7147.7	8030.3	9102.0	10842.8	13238.4	15299.3	18645.2	22873.7	22868.9	17481.4
60°	4441.9	4286.7	4965.6	5596.0	6570.7	8151.5	10338.5	14848.3	19338.7	19746.0	14154.9
62.5°	2642.8	2739.8	3409.0	3792.1	4107.3	4272.2	5348.7	8825.6	12903.8	13194.7	8781.9
65°	1760.3	1794.2	2298.5	2928.9	3069.6	2444.0	2177.3	3573.9	5596.0	5416.6	3622.4
67.5°	1086.2	1163.8	1542.0	2201.5	2439.2	1784.5	1032.9	1333.5	1542.0	1542.0	1047.4
70°	659.5	698.3	1028.0	1498.4	1673.0	1149.3	751.6	751.6	741.9	727.4	625.5
72.5°	315.2	339.4	523.7	771.0	785.6	606.2	581.9	635.2	620.7	615.9	518.9
75°	135.8	145.5	184.3	242.5	276.4	257.0	354.0	455.8	470.4	455.8	373.4
77.5°	43.6	48.5	67.9	87.3	92.1	111.5	150.3	189.1	218.2	203.7	184.3
80°	4.8	9.7	19.4	43.6	67.9	87.3	111.5	126.1	140.6	140.6	130.9
82.5°	4.8	4.8	19.4	38.8	63.0	82.4	106.7	121.2	140.6	145.5	135.8
85°	0.0	4.8	14.5	33.9	53.3	53.3	48.5	48.5	33.9	33.9	33.9
87.5°	0.0	0.0	4.8	4.8	4.8	9.7	9.7	9.7	9.7	9.7	9.7
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°	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8	4378.8
2.5°	4417.6	4407.9	4277.0	4194.6	4150.9	4063.6	4010.3	3971.5	3942.4	3908.5	3913.3
5°	4475.8	4441.9	4223.7	4073.3	3893.9	3796.9	3714.5	3646.6	3603.0	3593.3	3573.9
7.5°	4640.7	4461.3	4131.5	3860.0	3632.1	3535.1	3462.3	3418.7	3438.1	3394.4	3428.4
10°	4766.8	4500.1	4020.0	3627.2	3399.3	3326.6	3287.8	3321.7	3370.2	3350.8	3326.6
12.5°	4922.0	4538.9	3840.6	3404.1	3190.8	3137.4	3205.3	3268.4	3365.4	3404.1	3355.7
15°	5096.5	4582.5	3612.7	3147.1	3011.4	3055.0	3171.4	3282.9	3379.9	3428.4	3457.5
17.5°	5309.9	4568.0	3389.6	2943.5	2841.6	2967.7	3108.3	3210.2	3355.7	3428.4	3409.0
20°	5508.7	4519.5	3142.3	2739.8	2744.7	2861.0	2977.4	3142.3	3219.9	3316.9	3282.9
22.5°	5697.8	4432.2	2885.3	2599.2	2599.2	2778.6	2836.8	2943.5	3011.4	3059.9	3055.0
25°	5964.5	4267.3	2671.9	2463.4	2521.6	2638.0	2686.5	2720.4	2691.3	2730.1	2735.0
27.5°	6153.7	4097.6	2497.3	2342.2	2448.9	2536.1	2521.6	2502.2	2434.3	2381.0	2414.9
30°	6357.3	3898.8	2347.0	2259.7	2317.9	2395.5	2337.3	2279.1	2172.4	2085.2	2090.0
32.5°	6648.3	3806.6	2216.1	2162.7	2240.3	2250.0	2187.0	2099.7	1993.0	1910.6	1905.7
35°	7191.4	3748.4	2104.6	2099.7	2114.3	2119.1	2056.1	1949.4	1905.7	1837.9	1862.1
37.5°	7734.5	3719.3	2027.0	2007.6	2002.7	2007.6	1934.8	1833.0	1915.4	1910.6	1920.3
40°	8427.9	3850.3	1915.4	1891.2	1896.0	1896.0	1803.9	1774.8	1920.3	1934.8	1939.7
42.5°	9131.1	4015.1	1842.7	1765.1	1784.5	1784.5	1736.0	1702.1	1803.9	1706.9	1692.4
45°	9742.1	4257.6	1765.1	1639.0	1687.5	1711.8	1697.2	1639.0	1576.0	1411.1	1411.1
47.5°	9940.9	4471.0	1673.0	1517.8	1556.6	1663.3	1619.6	1498.4	1386.9	1251.1	1241.4
50°	10290.0	4703.7	1600.2	1377.2	1459.6	1590.5	1546.9	1425.7	1299.6	1202.6	1207.5
52.5°	10648.9	4970.4	1464.5	1212.3	1314.1	1532.4	1532.4	1396.6	1202.6	1134.7	1125.0
55°	11187.1	4960.7	1222.0	994.1	1173.5	1445.1	1469.3	1251.1	1076.5	1023.2	1023.2
56°	11264.7	4737.7	1100.8	931.0	1110.5	1420.8	1425.7	1212.3	1028.0	969.8	969.8
57.5°	10682.8	4277.0	965.0	853.5	1032.9	1377.2	1382.0	1178.4	989.2	906.8	897.1
60°	8219.4	2895.0	805.0	761.3	935.9	1241.4	1265.6	1071.7	868.0	805.0	800.1
62.5°	4640.7	1605.1	708.0	688.6	805.0	1057.1	1129.9	935.9	737.1	703.1	712.8
65°	2119.1	882.6	596.5	557.7	649.8	814.7	911.7	771.0	606.2	567.4	567.4
67.5°	775.9	601.3	509.2	441.3	455.8	528.6	591.6	499.5	402.5	344.3	358.8
70°	552.8	504.3	446.1	383.1	354.0	344.3	339.4	281.3	198.8	155.2	164.9
72.5°	446.1	417.0	373.4	324.9	276.4	232.8	198.8	145.5	92.1	63.0	58.2
75°	320.0	305.5	271.6	232.8	194.0	164.9	135.8	92.1	48.5	24.2	24.2
77.5°	164.9	164.9	160.0	145.5	121.2	97.0	77.6	53.3	29.1	9.7	9.7
80°	126.1	135.8	140.6	126.1	111.5	87.3	63.0	38.8	19.4	4.8	4.8
82.5°	121.2	140.6	150.3	130.9	111.5	82.4	63.0	38.8	19.4	4.8	4.8
85°	29.1	29.1	43.6	48.5	63.0	67.9	53.3	33.9	14.5	4.8	4.8
87.5°	9.7	9.7	9.7	9.7	9.7	9.7	4.8	4.8	4.8	4.8	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)