

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: P949904

Luminaire Tested: **GALN-SB4C-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

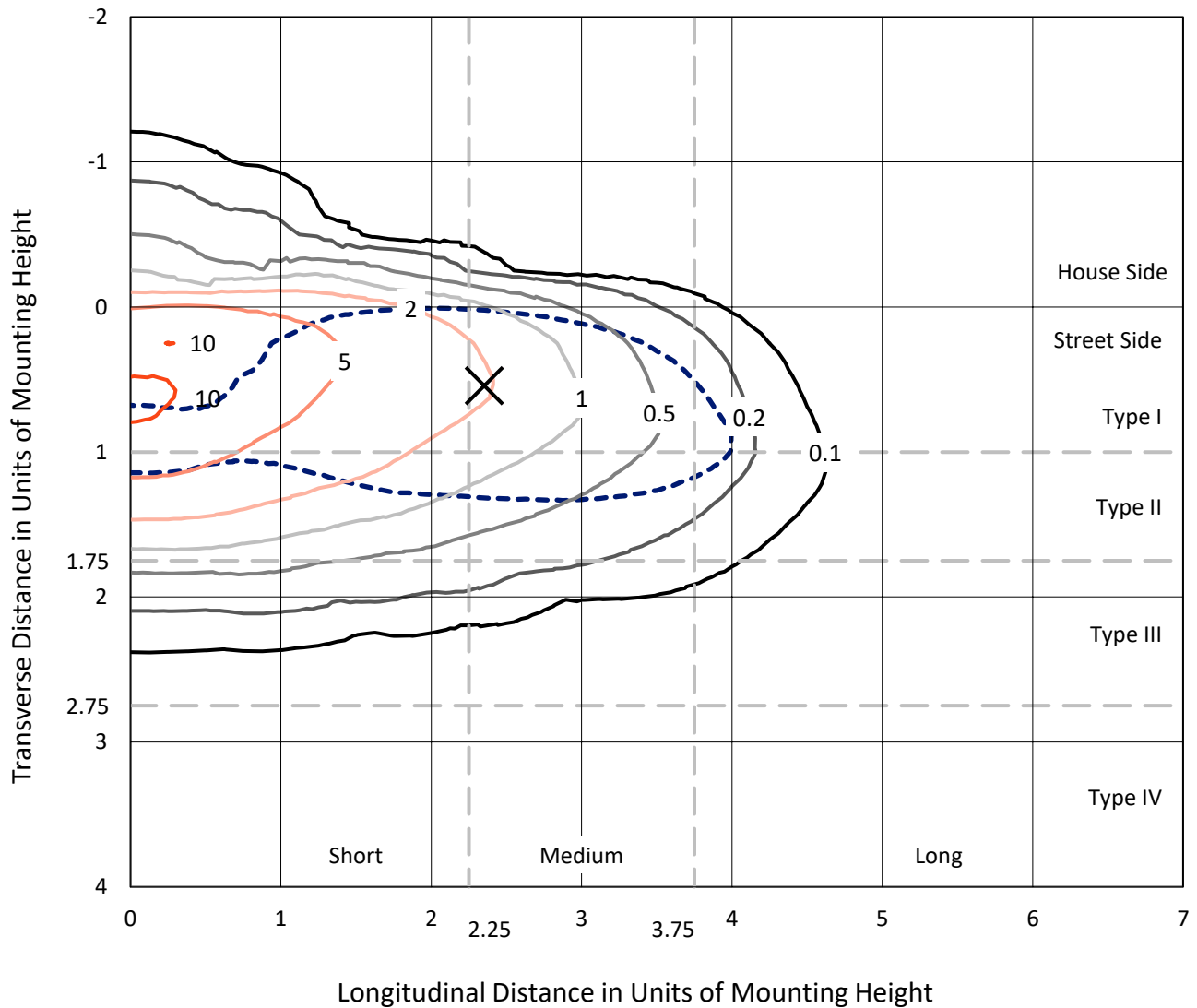
Lumens per Lamp: N/A  
Luminaire Lumens: 25413 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

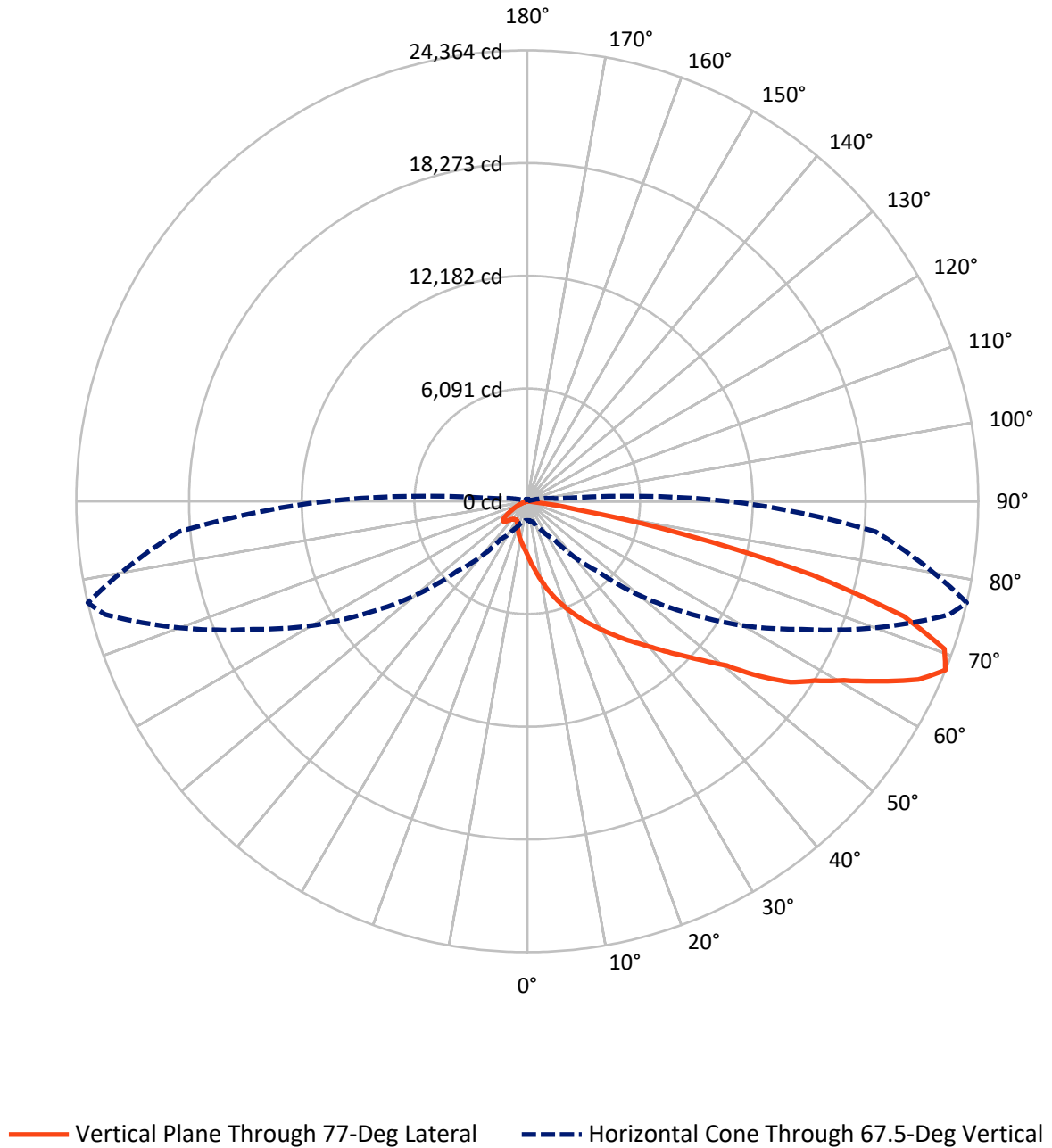
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1869.6	0.0	1869.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	23543.4	0.0	23543.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	25413.0	0.0	25413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.1	1.2
10°-20°	1047.4	4.1
20°-30°	2021.3	8.0
30°-40°	3509.0	13.8
40°-50°	5094.9	20.0
50°-60°	5850.8	23.0
60°-70°	5079.6	20.0
70°-80°	2392.6	9.4
80°-90°	118.3	0.5
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°	25413.0	100.0
0°-180°	25413.0	100.0

**Coefficient of Utilization**



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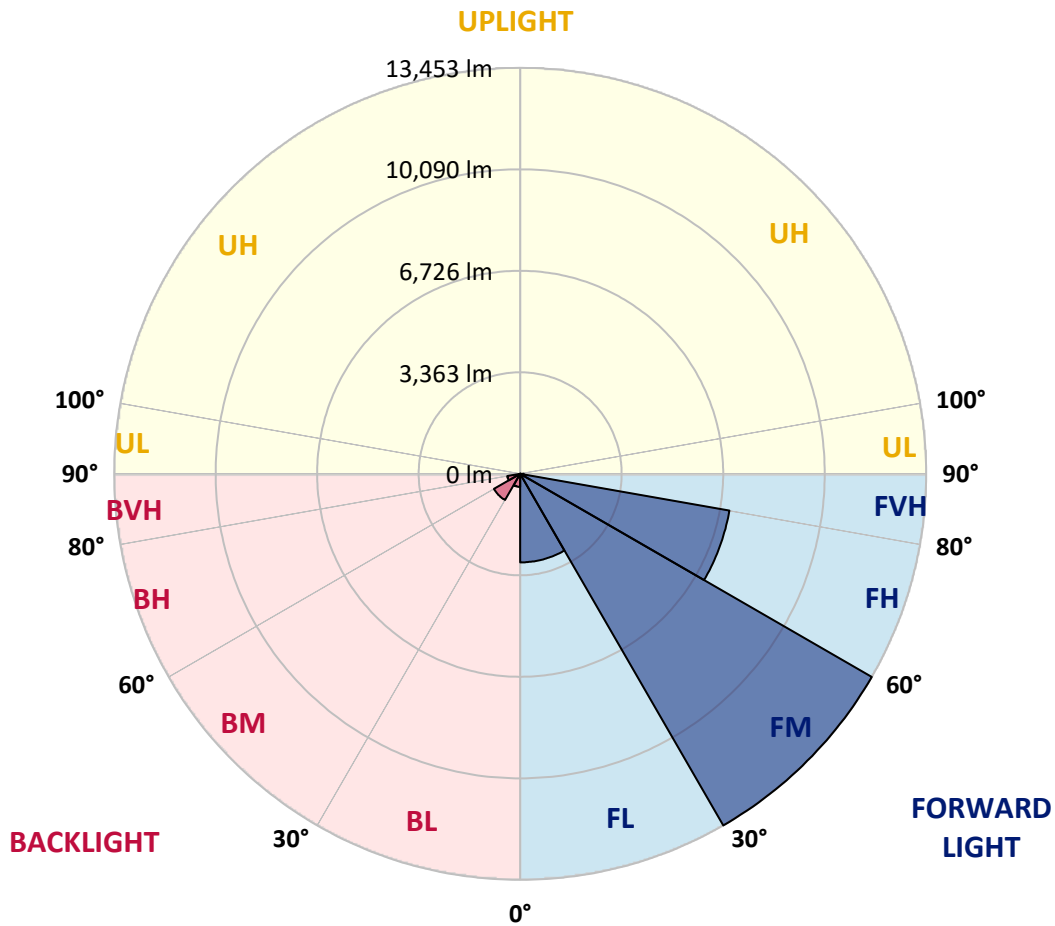
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.9	11.5			
FM (30°-60°)	13453.0	52.9			
FH (60°-80°)	7039.3	27.7			G3/7500
FVH (80°-90°)	116.1	0.5			G2/225
BL (0°-30°)	432.9	1.7	B1/500		
BM (30°-60°)	1001.8	3.9	B2/2500		
BH (60°-80°)	432.8	1.7	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5
2.5°	4057.2	4082.5	4046.2	3976.8	3872.6	3804.7	3639.0	3482.8	3309.2	3254.0
5°	4945.7	4967.8	4926.8	4851.0	4712.1	4579.6	4361.8	4035.1	3695.9	3587.0
7.5°	5603.8	5616.4	5600.6	5531.2	5398.6	5248.7	5005.7	4619.0	4115.6	3995.7
10°	6077.2	6118.2	6113.5	6086.7	5998.3	5876.8	5618.0	5177.7	4585.9	4431.2
12.5°	6391.2	6437.0	6463.8	6523.8	6519.0	6441.7	6214.5	5748.9	5054.6	4873.1
15°	6482.7	6531.7	6634.2	6773.1	6896.2	6935.7	6776.3	6309.2	5570.6	5338.6
17.5°	6430.7	6506.4	6629.5	6848.9	7118.7	7297.0	7279.7	6850.4	6039.3	5774.2
20°	6545.9	6618.5	6714.7	6899.4	7213.4	7536.9	7666.3	7368.1	6504.8	6227.1
22.5°	7183.4	7170.8	7180.3	7210.2	7398.0	7718.4	7985.1	7838.3	6965.6	6681.6
25°	8193.4	8136.6	8040.3	7877.8	7830.4	7985.1	8262.8	8254.9	7451.7	7147.1
27.5°	9351.7	9342.2	9116.6	8725.2	8504.3	8444.3	8576.9	8660.5	7933.0	7607.9
30°	10461.1	10486.3	10181.8	9746.2	9340.6	9105.5	8985.6	9045.5	8422.2	8105.0
32.5°	11426.9	11453.7	11122.3	10612.6	10110.8	9826.7	9574.2	9425.9	8955.6	8610.0
35°	12242.7	12269.6	11889.2	11325.9	10790.9	10533.7	10248.0	9842.5	9492.1	9170.2
37.5°	12971.8	12963.9	12454.2	11886.1	11360.6	11157.0	11007.1	10355.4	10044.5	9733.6
40°	13402.6	13435.8	13000.2	12373.7	11864.0	11715.7	11706.2	10991.3	10682.0	10380.6
42.5°	13528.9	13587.3	13271.6	12757.2	12294.8	12133.8	12381.6	11679.4	11423.7	11130.2
45°	13301.6	13358.4	13214.8	12858.2	12588.3	12484.2	12962.3	12392.7	12215.9	11925.5
47.5°	12638.8	12709.8	12744.6	12668.8	12665.7	12771.4	13483.1	13143.8	13156.4	12859.8
50°	11355.9	11475.8	11794.6	12062.8	12477.9	12998.6	13989.7	13958.1	14216.9	13961.3
52.5°	9023.5	9193.9	10292.2	11026.0	11958.7	12956.0	14546.7	15264.8	16077.5	15703.5
55°	7251.3	7251.3	8144.5	9517.4	10945.6	12675.1	14789.8	16113.8	17344.7	17256.3
57.5°	5911.5	5982.5	6552.2	7765.7	9479.5	12006.0	14939.7	16647.2	18365.7	18301.0
60°	3648.5	3801.6	4877.8	6075.6	7811.5	10814.6	14845.0	17186.9	19604.5	19656.6
62.5°	2054.7	2111.5	2591.2	4371.3	6074.0	9212.8	14120.6	17488.3	21188.9	21409.8
65°	1418.7	1447.1	1631.7	2720.6	4210.3	7334.9	12705.1	17300.5	22776.4	23223.0
67.5°	1030.5	1044.7	1159.9	1661.7	2498.1	5318.1	10486.3	16353.6	23617.5	24364.0
70°	792.2	801.7	885.3	1092.0	1475.5	3282.4	7615.8	14471.0	23008.4	23900.0
72.5°	643.9	653.3	718.0	808.0	978.4	1941.0	4615.9	11752.0	20319.3	21282.0
75°	542.9	555.5	613.9	672.3	766.9	1246.7	2165.1	8183.9	15280.5	15911.8
77.5°	301.4	277.7	498.7	557.1	647.0	789.0	1013.1	4816.3	8557.9	8733.1
80°	187.8	194.1	396.1	448.2	497.1	397.7	464.0	1854.2	2966.8	2818.4
82.5°	11.0	25.2	304.6	323.5	340.9	170.4	175.2	629.7	714.9	656.5
85°	0.0	0.0	138.9	112.0	118.4	48.9	50.5	146.8	96.3	104.2
87.5°	0.0	0.0	0.0	3.2	0.0	4.7	9.5	12.6	4.7	6.3
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2930.5	0°	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5
3080.4	2.5°	2969.9	2859.5	2635.4	2416.0	2237.7	2072.0	1953.7	1841.6	1784.8	1781.7
3279.2	5°	3059.9	2827.9	2379.7	1983.6	1664.9	1409.2	1243.5	1125.2	1065.2	1044.7
3523.9	7.5°	3186.1	2837.4	2155.7	1604.9	1229.3	1010.0	915.3	877.4	864.8	850.6
3800.0	10°	3345.5	2859.5	1955.2	1292.4	968.9	858.5	820.6	804.8	795.4	785.9
4110.9	12.5°	3523.9	2880.0	1756.4	1073.1	852.2	795.4	768.5	749.6	737.0	725.9
4429.7	15°	3697.4	2892.6	1549.7	920.0	792.2	746.4	718.0	697.5	680.2	667.5
4742.1	17.5°	3869.4	2910.0	1355.6	828.5	743.3	697.5	669.1	643.9	629.7	615.5
5070.4	20°	4060.4	2906.8	1172.5	763.8	694.4	648.6	618.6	594.9	580.7	565.0
5417.5	22.5°	4237.1	2891.0	1011.5	708.6	643.9	599.7	566.5	542.9	528.7	516.0
5772.6	25°	4440.7	2878.4	877.4	658.1	596.5	552.3	516.0	493.9	478.2	467.1
6129.3	27.5°	4636.4	2859.5	779.6	612.3	550.7	508.1	473.4	448.2	434.0	426.1
6497.0	30°	4828.9	2854.7	743.3	568.1	509.7	467.1	432.4	408.7	397.7	394.5
6900.9	32.5°	5060.9	2867.4	759.1	552.3	471.8	429.2	396.1	378.7	367.7	367.7
7350.7	35°	5308.7	2864.2	782.7	566.5	446.6	391.4	366.1	355.1	344.0	344.0
7849.4	37.5°	5619.5	2868.9	801.7	590.2	437.1	359.8	345.6	331.4	325.1	325.1
8395.4	40°	6083.5	3025.2	792.2	610.7	434.0	337.7	309.3	304.6	299.8	299.8
9012.4	42.5°	6651.6	3364.5	804.8	612.3	432.4	321.9	284.1	293.5	282.5	280.9
9708.3	45°	7273.4	3735.3	885.3	579.2	430.8	314.0	271.4	282.5	265.1	265.1
10514.7	47.5°	7890.4	4103.0	967.4	531.8	426.1	312.5	260.4	254.1	249.3	250.9
11565.7	50°	8741.0	4402.8	998.9	467.1	415.0	309.3	239.9	241.4	238.3	241.4
13047.6	52.5°	9667.3	4466.0	961.1	394.5	383.5	299.8	225.7	232.0	230.4	233.6
14090.7	55°	10244.9	4398.1	793.8	328.2	334.6	262.0	211.5	224.1	224.1	224.1
15110.1	57.5°	10841.4	4109.3	563.4	266.7	277.7	214.6	198.8	216.2	214.6	213.0
16337.9	60°	11270.6	3642.2	370.8	219.4	220.9	176.7	184.6	203.6	202.0	194.1
17603.5	62.5°	11591.0	3126.2	238.3	186.2	168.9	159.4	168.9	184.6	178.3	161.0
18676.6	65°	11554.7	2411.3	183.1	159.4	138.9	138.9	146.8	161.0	142.0	113.6
18881.7	67.5°	10880.9	1631.7	151.5	134.1	116.8	115.2	121.5	134.1	121.5	96.3
17830.7	70°	9676.8	1066.8	121.5	104.2	93.1	85.2	97.8	115.2	102.6	77.3
15179.5	72.5°	7854.1	650.2	91.5	75.7	67.9	55.2	77.3	94.7	82.1	56.8
10555.8	75°	5081.4	331.4	63.1	48.9	36.3	33.1	56.8	71.0	56.8	34.7
4683.7	77.5°	1944.2	138.9	34.7	22.1	18.9	15.8	31.6	42.6	23.7	7.9
907.4	80°	374.0	58.4	17.4	11.0	9.5	6.3	4.7	3.2	0.0	0.0
161.0	82.5°	64.7	18.9	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
31.6	85°	22.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	87.5°	7.9	0.0	0.0	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

(END O

<u>180°</u>
2930.5
1778.5
1041.5
847.4
782.7
722.8
665.9
613.9
563.4
514.5
465.5
426.1
392.9
367.7
344.0
325.1
299.8
279.3
265.1
250.9
241.4
233.6
224.1
213.0
194.1
157.8
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93.1
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