

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: P950975

Luminaire Tested: **GALN-SB5B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950975
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-SB5B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA 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: 24084 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

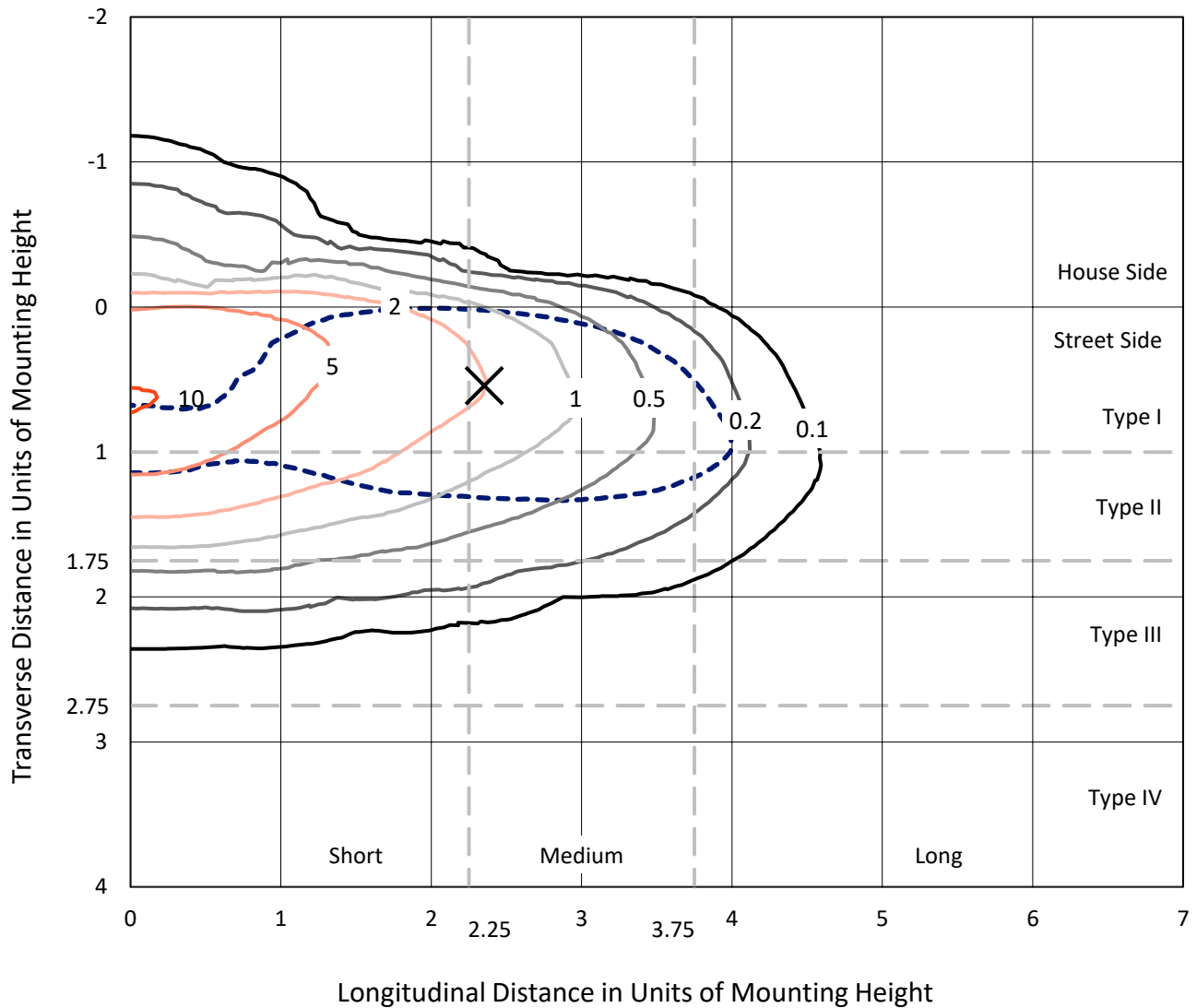
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

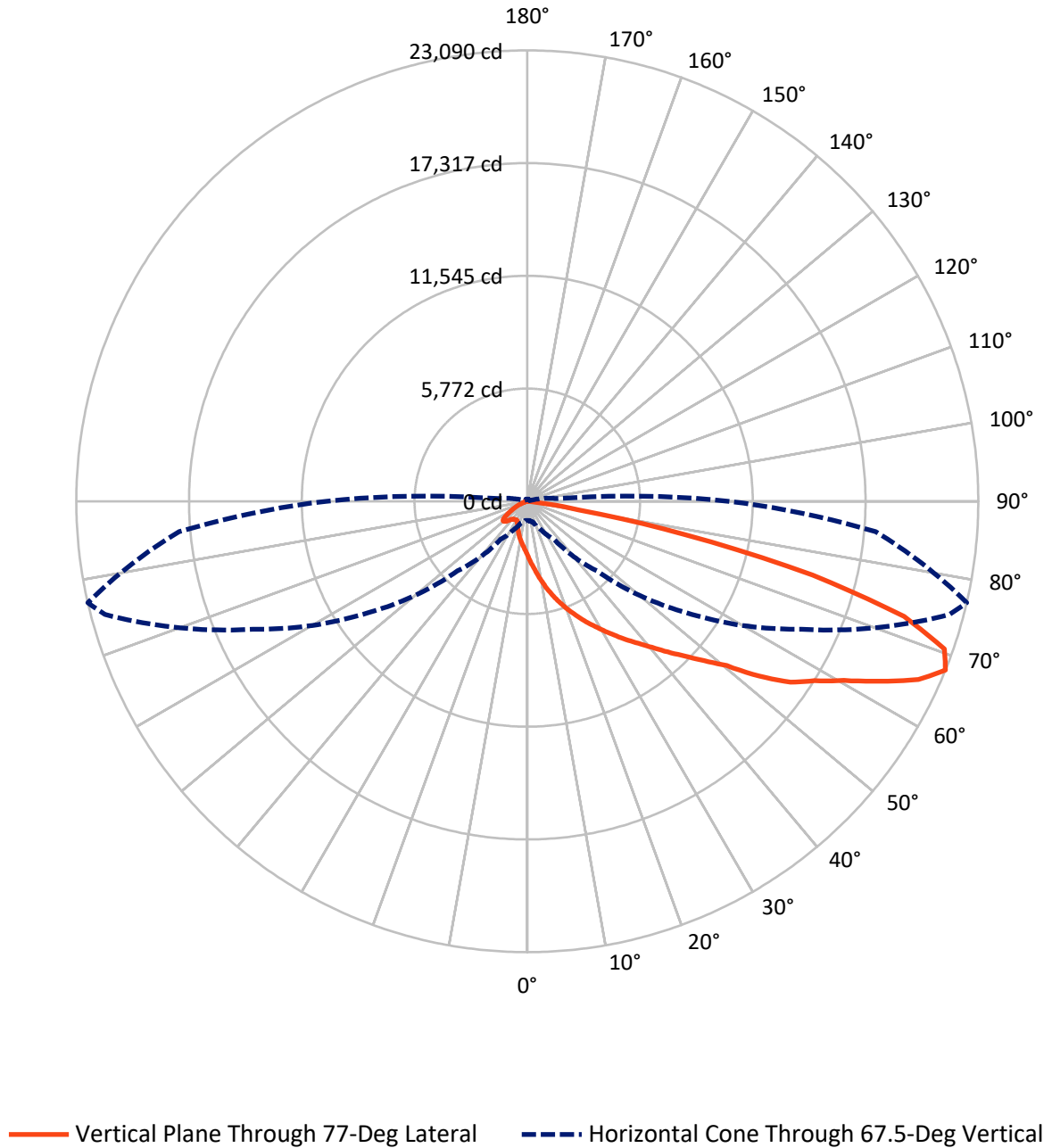
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.9	0.0	1771.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22312.1	0.0	22312.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	24084.0	0.0	24084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.2
10°-20°	992.7	4.1
20°-30°	1915.5	8.0
30°-40°	3325.5	13.8
40°-50°	4828.4	20.0
50°-60°	5544.9	23.0
60°-70°	4814.0	20.0
70°-80°	2267.4	9.4
80°-90°	112.1	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°	24084.0	100.0
0°-180°	24084.0	100.0

Coefficient of Utilization



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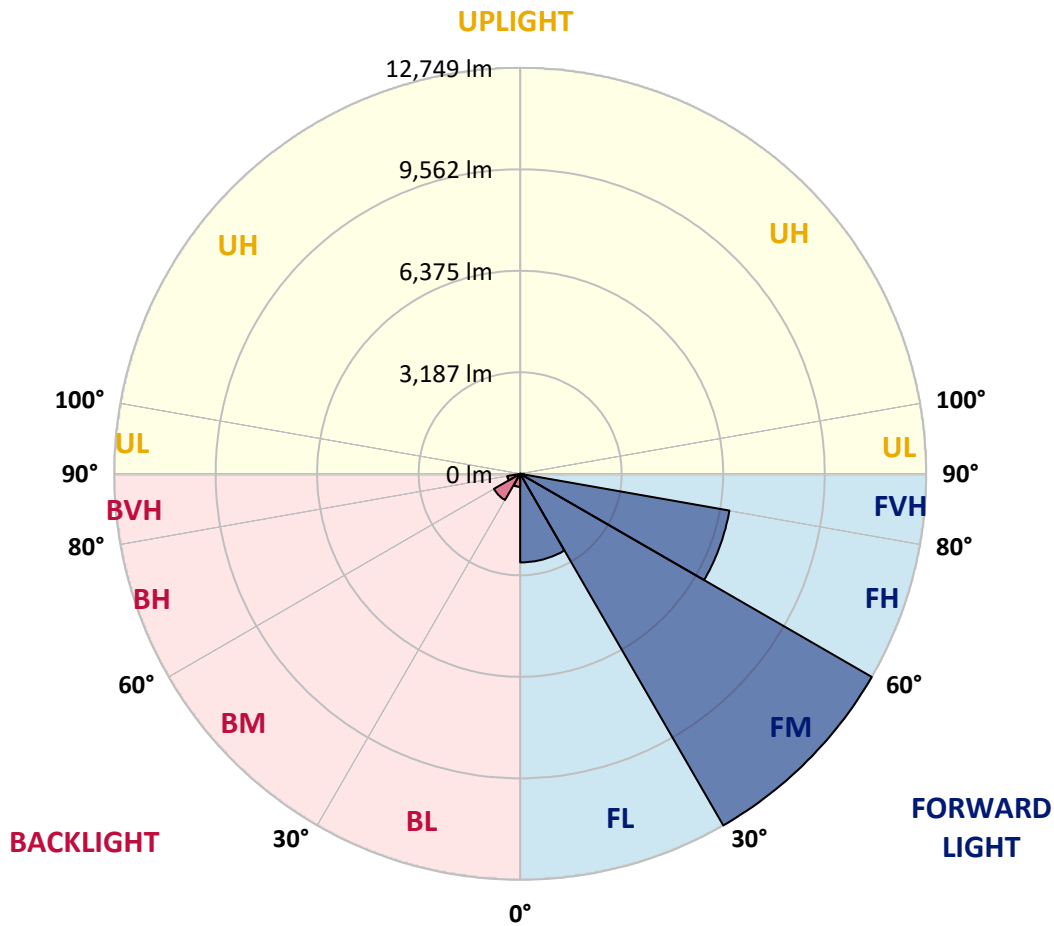
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.4	11.5			
FM (30°-60°)	12749.4	52.9			
FH (60°-80°)	6671.2	27.7			G3/7500
FVH (80°-90°)	110.1	0.5			G2/225
BL (0°-30°)	410.2	1.7	B1/500		
BM (30°-60°)	949.4	3.9	B1/1000		
BH (60°-80°)	410.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2
2.5°	3845.1	3869.0	3834.6	3768.8	3670.1	3605.8	3448.7	3300.7	3136.2	3083.8
5°	4687.1	4708.0	4669.1	4597.3	4465.7	4340.1	4133.7	3824.1	3502.6	3399.4
7.5°	5310.7	5322.7	5307.7	5241.9	5116.3	4974.2	4743.9	4377.5	3900.4	3786.7
10°	5759.4	5798.3	5793.8	5768.3	5684.6	5569.4	5324.2	4906.9	4346.1	4199.5
12.5°	6057.0	6100.4	6125.8	6182.6	6178.1	6104.8	5889.5	5448.3	4790.3	4618.3
15°	6143.7	6190.1	6287.3	6418.9	6535.6	6572.9	6421.9	5979.2	5279.3	5059.5
17.5°	6094.4	6166.2	6282.8	6490.7	6746.4	6915.4	6899.0	6492.2	5723.5	5472.2
20°	6203.5	6272.3	6363.6	6538.6	6836.2	7142.8	7265.4	6982.7	6164.7	5901.4
22.5°	6807.8	6795.8	6804.8	6833.2	7011.1	7314.7	7567.5	7428.4	6601.4	6332.2
25°	7764.9	7711.1	7619.8	7465.8	7420.9	7567.5	7830.7	7823.2	7062.0	6773.4
27.5°	8862.6	8853.7	8639.8	8268.9	8059.5	8002.7	8128.3	8207.6	7518.1	7210.1
30°	9914.0	9937.9	9649.3	9236.5	8852.2	8629.3	8515.7	8572.5	7981.8	7681.2
32.5°	10829.3	10854.7	10540.6	10057.6	9582.0	9312.8	9073.5	8932.9	8487.3	8159.7
35°	11602.5	11627.9	11267.5	10733.6	10226.6	9982.8	9712.1	9327.8	8995.7	8690.7
37.5°	12293.4	12286.0	11802.9	11264.5	10766.5	10573.5	10431.5	9813.8	9519.2	9224.6
40°	12701.7	12733.1	12320.4	11726.6	11243.6	11103.0	11094.0	10416.5	10123.4	9837.7
42.5°	12821.4	12876.7	12577.6	12090.0	11651.8	11499.3	11734.1	11068.6	10826.3	10548.1
45°	12606.0	12659.8	12523.7	12185.8	11930.0	11831.3	12284.5	11744.6	11577.1	11301.9
47.5°	11977.9	12045.2	12078.1	12006.3	12003.3	12103.5	12778.0	12456.4	12468.4	12187.2
50°	10762.0	10875.7	11177.8	11432.0	11825.3	12318.9	13258.1	13228.2	13473.4	13231.1
52.5°	8551.6	8713.1	9754.0	10449.4	11333.3	12278.5	13786.0	14466.5	15236.7	14882.2
55°	6872.1	6872.1	7718.5	9019.7	10373.1	12012.3	14016.3	15271.1	16437.6	16353.9
57.5°	5602.3	5669.6	6209.5	7359.6	8983.8	11378.2	14158.4	15776.6	17405.2	17343.9
60°	3457.7	3602.8	4622.7	5757.9	7403.0	10249.0	14068.7	16288.1	18579.2	18628.6
62.5°	1947.2	2001.0	2455.7	4142.7	5756.4	8731.0	13382.2	16573.7	20080.8	20290.1
65°	1344.5	1371.4	1546.4	2578.3	3990.1	6951.3	12040.7	16395.7	21585.3	22008.5
67.5°	976.6	990.1	1099.2	1574.8	2367.5	5040.0	9937.9	15498.4	22382.4	23089.8
70°	750.8	759.7	839.0	1034.9	1398.3	3110.7	7217.5	13714.2	21805.1	22650.1
72.5°	610.2	619.2	680.5	765.7	927.2	1839.5	4374.5	11137.4	19256.7	20169.0
75°	514.5	526.4	581.8	637.1	726.8	1181.5	2051.9	7755.9	14481.4	15079.6
77.5°	285.7	263.2	472.6	527.9	613.2	747.8	960.1	4564.4	8110.4	8276.4
80°	178.0	184.0	375.4	424.7	471.1	376.9	439.7	1757.3	2811.6	2671.1
82.5°	10.5	23.9	288.6	306.6	323.0	161.5	166.0	596.7	677.5	622.1
85°	0.0	0.0	131.6	106.2	112.2	46.4	47.9	139.1	91.2	98.7
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	9.0	12.0	4.5	6.0
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°
2777.2	0°	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2	2777.2
2919.3	2.5°	2814.6	2709.9	2497.6	2289.7	2120.7	1963.7	1851.5	1745.3	1691.5	1688.5
3107.8	5°	2899.9	2680.0	2255.3	1879.9	1577.8	1335.5	1178.5	1066.3	1009.5	990.1
3339.6	7.5°	3019.5	2689.0	2042.9	1521.0	1165.0	957.2	867.4	831.5	819.6	806.1
3601.3	10°	3170.6	2709.9	1853.0	1224.9	918.3	813.6	777.7	762.7	753.8	744.8
3895.9	12.5°	3339.6	2729.4	1664.5	1017.0	807.6	753.8	728.3	710.4	698.4	688.0
4198.0	15°	3504.1	2741.3	1468.6	871.9	750.8	707.4	680.5	661.0	644.6	632.6
4494.1	17.5°	3667.1	2757.8	1284.7	785.2	704.4	661.0	634.1	610.2	596.7	583.3
4805.2	20°	3848.1	2754.8	1111.2	723.8	658.0	614.7	586.3	563.8	550.4	535.4
5134.2	22.5°	4015.6	2739.9	958.6	671.5	610.2	568.3	536.9	514.5	501.0	489.0
5470.7	25°	4208.5	2727.9	831.5	623.6	565.3	523.4	489.0	468.1	453.2	442.7
5808.7	27.5°	4393.9	2709.9	738.8	580.3	521.9	481.6	448.7	424.7	411.3	403.8
6157.2	30°	4576.4	2705.5	704.4	538.4	483.1	442.7	409.8	387.3	376.9	373.9
6540.0	32.5°	4796.2	2717.4	719.4	523.4	447.2	406.8	375.4	358.9	348.5	348.5
6966.3	35°	5031.0	2714.4	741.8	536.9	423.2	370.9	347.0	336.5	326.0	326.0
7438.9	37.5°	5325.7	2718.9	759.7	559.3	414.3	341.0	327.5	314.1	308.1	308.1
7956.3	40°	5765.4	2867.0	750.8	578.8	411.3	320.0	293.1	288.6	284.2	284.2
8541.1	42.5°	6303.7	3188.5	762.7	580.3	409.8	305.1	269.2	278.2	267.7	266.2
9200.6	45°	6893.0	3540.0	839.0	548.9	408.3	297.6	257.2	267.7	251.3	251.3
9964.9	47.5°	7477.8	3888.4	916.8	504.0	403.8	296.1	246.8	240.8	236.3	237.8
10960.9	50°	8283.9	4172.6	946.7	442.7	393.3	293.1	227.3	228.8	225.8	228.8
12365.2	52.5°	9161.7	4232.4	910.8	373.9	363.4	284.2	213.9	219.8	218.4	221.3
13353.8	55°	9709.1	4168.1	752.3	311.1	317.1	248.3	200.4	212.4	212.4	212.4
14319.9	57.5°	10274.4	3894.4	533.9	252.7	263.2	203.4	188.4	204.9	203.4	201.9
15483.4	60°	10681.2	3451.7	351.5	207.9	209.4	167.5	175.0	192.9	191.4	184.0
16682.9	62.5°	10984.8	2962.7	225.8	176.5	160.0	151.1	160.0	175.0	169.0	152.5
17699.9	65°	10950.4	2285.2	173.5	151.1	131.6	131.6	139.1	152.5	134.6	107.7
17894.3	67.5°	10311.8	1546.4	143.6	127.1	110.7	109.2	115.2	127.1	115.2	91.2
16898.2	70°	9170.7	1011.0	115.2	98.7	88.2	80.8	92.7	109.2	97.2	73.3
14385.7	72.5°	7443.4	616.2	86.7	71.8	64.3	52.3	73.3	89.7	77.8	53.8
10003.7	75°	4815.7	314.1	59.8	46.4	34.4	31.4	53.8	67.3	53.8	32.9
4438.8	77.5°	1842.5	131.6	32.9	20.9	17.9	15.0	29.9	40.4	22.4	7.5
859.9	80°	354.4	55.3	16.5	10.5	9.0	6.0	4.5	3.0	0.0	0.0
152.5	82.5°	61.3	17.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29.9	85°	20.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	7.5	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

180°

2777.2
1685.5
987.1
803.1
741.8
685.0
631.1
581.8
533.9
487.5
441.2
403.8
372.4
348.5
326.0
308.1
284.2
264.7
251.3
237.8
228.8
221.3
212.4
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104.7
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