

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: P951017

Luminaire Tested: **GALN-SB5B-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951017
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-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 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: 25480 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

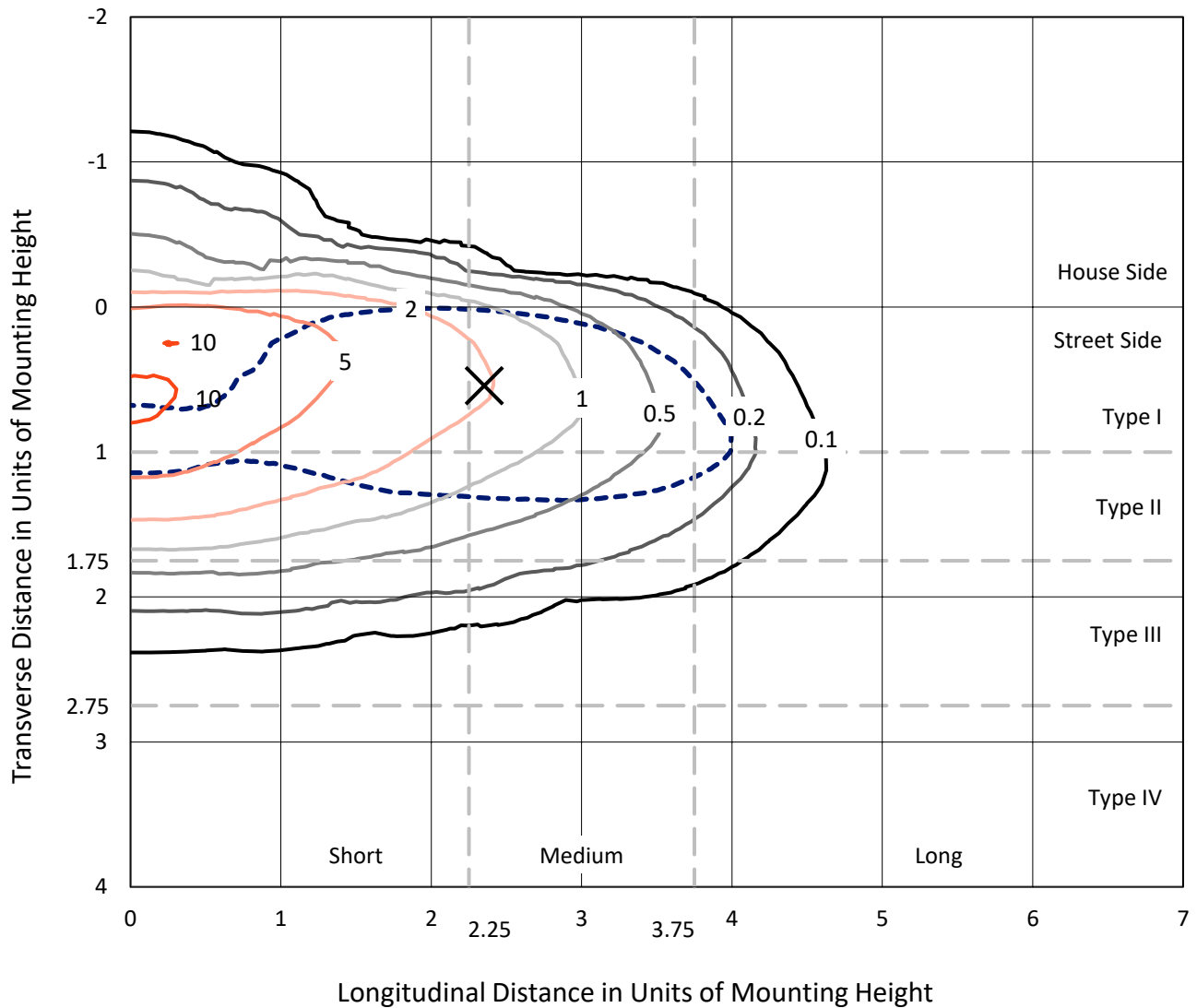
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

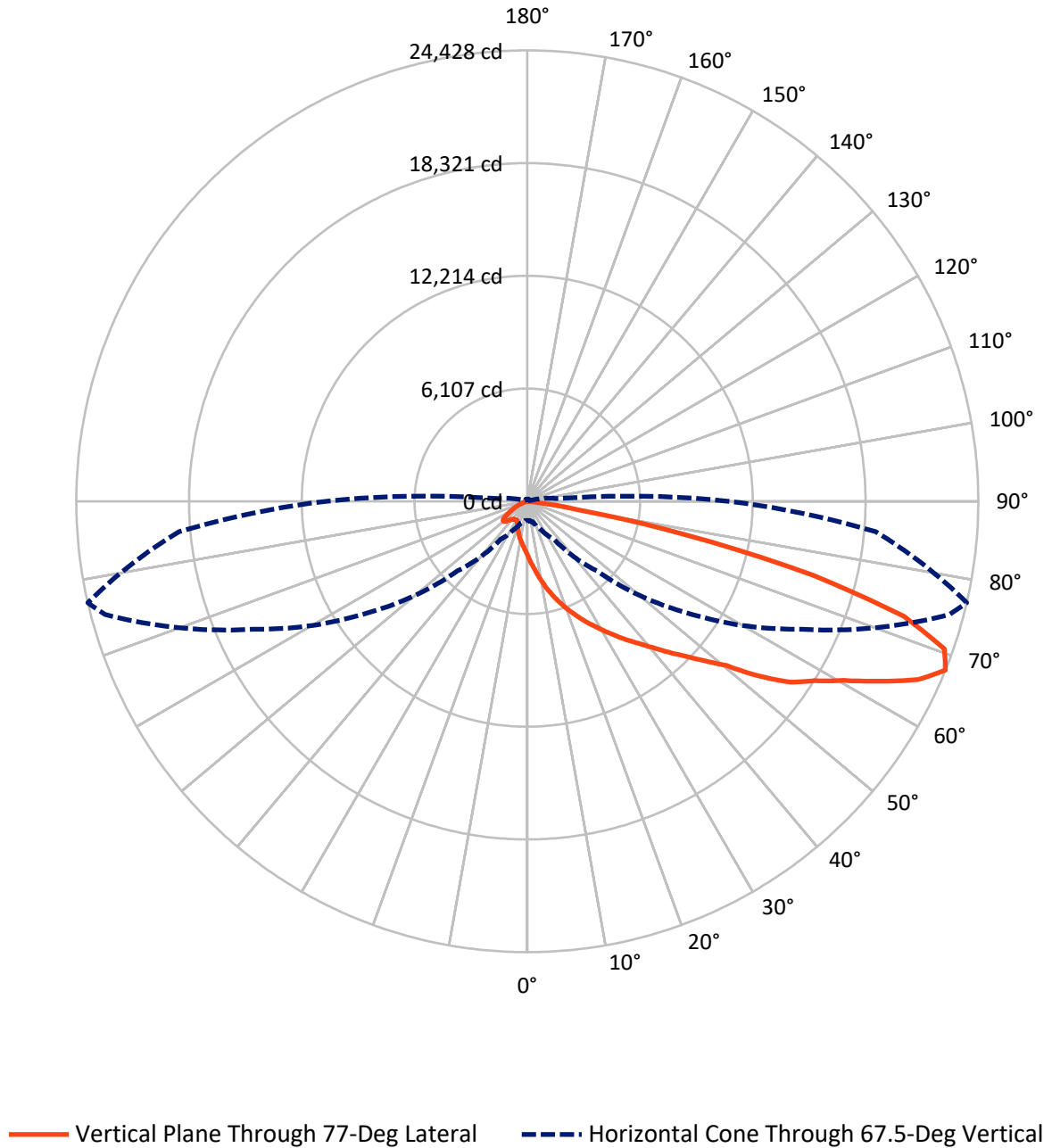
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	1874.6	0.0	1874.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	23605.4	0.0	23605.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	25480.0	0.0	25480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.2
10°-20°	1050.2	4.1
20°-30°	2026.6	8.0
30°-40°	3518.3	13.8
40°-50°	5108.3	20.0
50°-60°	5866.3	23.0
60°-70°	5093.0	20.0
70°-80°	2398.9	9.4
80°-90°	118.6	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°	25480.0	100.0
0°-180°	25480.0	100.0

Coefficient of Utilization



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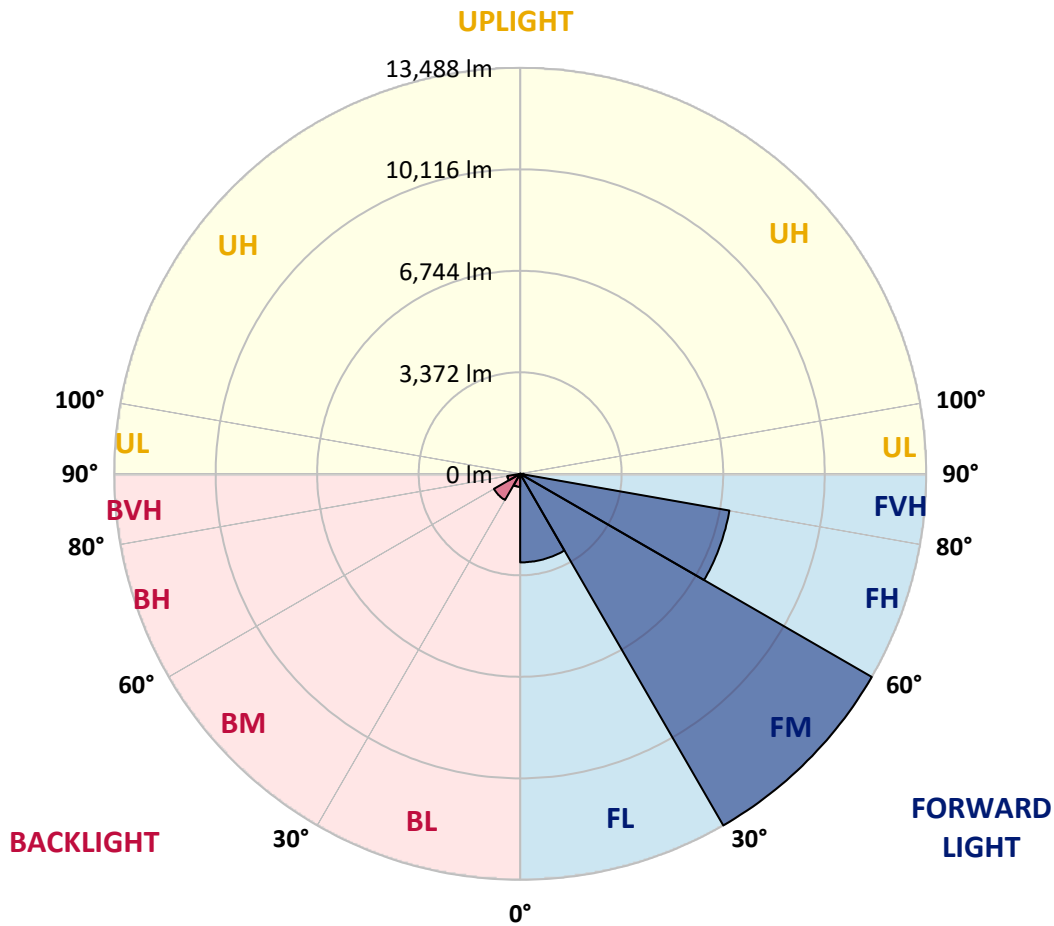
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.7	11.5			
FM (30°-60°)	13488.4	52.9			
FH (60°-80°)	7057.9	27.7			G3/7500
FVH (80°-90°)	116.4	0.5			G2/225
BL (0°-30°)	434.0	1.7	B1/500		
BM (30°-60°)	1004.4	3.9	B2/2500		
BH (60°-80°)	434.0	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°	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2
2.5°	4067.9	4093.3	4056.9	3987.2	3882.8	3814.8	3648.6	3492.0	3318.0	3262.6
5°	4958.7	4980.9	4939.8	4863.8	4724.6	4591.7	4373.3	4045.8	3705.6	3596.4
7.5°	5618.5	5631.2	5615.4	5545.7	5412.8	5262.5	5018.9	4631.2	4126.5	4006.2
10°	6093.2	6134.3	6129.6	6102.7	6014.1	5892.3	5632.8	5191.3	4598.0	4442.9
12.5°	6408.1	6454.0	6480.9	6541.0	6536.2	6458.7	6230.9	5764.1	5067.9	4886.0
15°	6499.8	6548.9	6651.7	6791.0	6914.4	6953.9	6794.1	6325.8	5585.3	5352.7
17.5°	6447.6	6523.6	6647.0	6866.9	7137.5	7316.3	7298.9	6868.5	6055.2	5789.4
20°	6563.1	6635.9	6732.4	6917.6	7232.4	7556.8	7686.5	7387.5	6522.0	6243.5
22.5°	7202.4	7189.7	7199.2	7229.3	7417.5	7738.7	8006.1	7859.0	6984.0	6699.2
25°	8215.0	8158.0	8061.5	7898.5	7851.1	8006.1	8284.6	8276.7	7471.3	7166.0
27.5°	9376.4	9366.9	9140.6	8748.2	8526.7	8466.6	8599.5	8683.3	7953.9	7628.0
30°	10488.7	10514.0	10208.6	9771.9	9365.3	9129.5	9009.3	9069.4	8444.4	8126.4
32.5°	11457.0	11483.9	11151.6	10640.6	10137.4	9852.6	9599.4	9450.7	8979.2	8632.7
35°	12275.0	12301.9	11920.6	11355.7	10819.4	10561.4	10275.1	9868.4	9517.2	9194.4
37.5°	13006.0	12998.1	12487.0	11917.4	11390.5	11186.4	11036.1	10382.7	10071.0	9759.3
40°	13438.0	13471.2	13034.5	12406.3	11895.3	11746.5	11737.1	11020.3	10710.2	10408.0
42.5°	13564.5	13623.1	13306.6	12790.8	12327.2	12165.8	12414.3	11710.2	11453.8	11159.5
45°	13336.7	13393.7	13249.7	12892.1	12621.5	12517.1	12996.5	12425.3	12248.1	11957.0
47.5°	12672.2	12743.4	12778.2	12702.2	12699.1	12805.1	13518.7	13178.5	13191.1	12893.7
50°	11385.8	11506.0	11825.7	12094.6	12510.8	13032.9	14026.6	13994.9	14254.4	13998.1
52.5°	9047.2	9218.1	10319.4	11055.1	11990.2	12990.2	14585.1	15305.0	16119.9	15744.9
55°	7270.4	7270.4	8165.9	9542.5	10974.4	12708.5	14828.7	16156.2	17390.4	17301.8
57.5°	5927.1	5998.3	6569.5	7786.2	9504.5	12037.7	14979.1	16691.0	18414.1	18349.2
60°	3658.1	3811.6	4890.7	6091.6	7832.1	10843.1	14884.1	17232.2	19656.2	19708.4
62.5°	2060.1	2117.0	2598.0	4382.8	6090.0	9237.1	14157.9	17534.4	21244.7	21466.2
65°	1422.4	1450.9	1636.0	2727.8	4221.4	7354.2	12738.6	17346.1	22836.5	23284.2
67.5°	1033.2	1047.4	1162.9	1666.1	2504.7	5332.1	10514.0	16396.7	23679.8	24428.2
70°	794.3	803.8	887.6	1094.9	1479.4	3291.1	7635.9	14509.1	23069.1	23963.0
72.5°	645.6	655.0	719.9	810.1	981.0	1946.2	4628.1	11782.9	20372.9	21338.1
75°	544.3	556.9	615.5	674.0	769.0	1250.0	2170.8	8205.5	15320.8	15953.7
77.5°	302.2	278.5	500.0	558.5	648.7	791.1	1015.8	4829.0	8580.5	8756.1
80°	188.3	194.6	397.1	449.4	498.4	398.7	465.2	1859.1	2974.6	2825.9
82.5°	11.1	25.3	305.4	324.4	341.8	170.9	175.6	631.3	716.8	658.2
85°	0.0	0.0	139.2	112.3	118.7	49.0	50.6	147.1	96.5	104.4
87.5°	0.0	0.0	0.0	3.2	0.0	4.7	9.5	12.7	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°
2938.2	0°	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2	2938.2
3088.5	2.5°	2977.8	2867.0	2642.3	2422.4	2243.6	2077.5	1958.8	1846.5	1789.5	1786.3
3287.9	5°	3068.0	2835.4	2386.0	1988.9	1669.3	1412.9	1246.8	1128.1	1068.0	1047.4
3533.1	7.5°	3194.5	2844.9	2161.3	1609.1	1232.6	1012.6	917.7	879.7	867.1	852.8
3810.0	10°	3354.3	2867.0	1960.4	1295.9	971.5	860.7	822.8	806.9	797.4	788.0
4121.7	12.5°	3533.1	2887.6	1761.0	1075.9	854.4	797.4	770.6	751.6	738.9	727.8
4441.3	15°	3707.2	2900.2	1553.8	922.4	794.3	748.4	719.9	699.3	681.9	669.3
4754.6	17.5°	3879.7	2917.6	1359.1	830.7	745.2	699.3	670.9	645.6	631.3	617.1
5083.7	20°	4071.1	2914.5	1175.6	765.8	696.2	650.3	620.2	596.5	582.3	566.4
5431.8	22.5°	4248.3	2898.7	1014.2	710.4	645.6	601.3	568.0	544.3	530.1	517.4
5787.8	25°	4452.4	2886.0	879.7	659.8	598.1	553.8	517.4	495.2	479.4	468.3
6145.4	27.5°	4648.6	2867.0	781.6	613.9	552.2	509.5	474.7	449.4	435.1	427.2
6514.1	30°	4841.7	2862.3	745.2	569.6	511.1	468.3	433.5	409.8	398.7	395.6
6919.1	32.5°	5074.2	2874.9	761.1	553.8	473.1	430.4	397.1	379.7	368.7	368.7
7370.1	35°	5322.7	2871.8	784.8	568.0	447.8	392.4	367.1	356.0	344.9	344.9
7870.1	37.5°	5634.4	2876.5	803.8	591.8	438.3	360.8	346.5	332.3	325.9	325.9
8417.5	40°	6099.5	3033.2	794.3	612.3	435.1	338.6	310.1	305.4	300.6	300.6
9036.2	42.5°	6669.1	3373.3	806.9	613.9	433.5	322.8	284.8	294.3	283.2	281.6
9733.9	45°	7292.5	3745.2	887.6	580.7	432.0	314.9	272.1	283.2	265.8	265.8
10542.5	47.5°	7911.2	4113.8	969.9	533.2	427.2	313.3	261.1	254.7	250.0	251.6
11596.2	50°	8764.0	4414.4	1001.6	468.3	416.1	310.1	240.5	242.1	238.9	242.1
13082.0	52.5°	9692.8	4477.7	963.6	395.6	384.5	300.6	226.3	232.6	231.0	234.2
14127.8	55°	10271.9	4409.7	795.9	329.1	335.4	262.7	212.0	224.7	224.7	224.7
15149.9	57.5°	10870.0	4120.2	564.9	267.4	278.5	215.2	199.4	216.8	215.2	213.6
16380.9	60°	11300.4	3651.8	371.8	219.9	221.5	177.2	185.1	204.1	202.5	194.6
17649.9	62.5°	11621.5	3134.4	238.9	186.7	169.3	159.8	169.3	185.1	178.8	161.4
18725.8	65°	11585.2	2417.7	183.5	159.8	139.2	139.2	147.1	161.4	142.4	113.9
18931.5	67.5°	10909.5	1636.0	151.9	134.5	117.1	115.5	121.8	134.5	121.8	96.5
17877.7	70°	9702.3	1069.6	121.8	104.4	93.4	85.4	98.1	115.5	102.8	77.5
15219.6	72.5°	7874.8	651.9	91.8	75.9	68.0	55.4	77.5	94.9	82.3	57.0
10583.6	75°	5094.8	332.3	63.3	49.0	36.4	33.2	57.0	71.2	57.0	34.8
4696.1	77.5°	1949.3	139.2	34.8	22.2	19.0	15.8	31.6	42.7	23.7	7.9
909.8	80°	375.0	58.5	17.4	11.1	9.5	6.3	4.7	3.2	0.0	0.0
161.4	82.5°	64.9	19.0	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
31.6	85°	22.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.1	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

180°
2938.2
1783.2
1044.3
849.7
784.8
724.7
667.7
615.5
564.9
515.8
466.8
427.2
394.0
368.7
344.9
325.9
300.6
280.1
265.8
251.6
242.1
234.2
224.7
213.6
194.6
158.2
110.8
93.4
74.4
53.8
30.1
6.3
0.0
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0.0
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