

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: P949589

Luminaire Tested: **GALN-SB4B-750-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949589  
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-SB4B-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

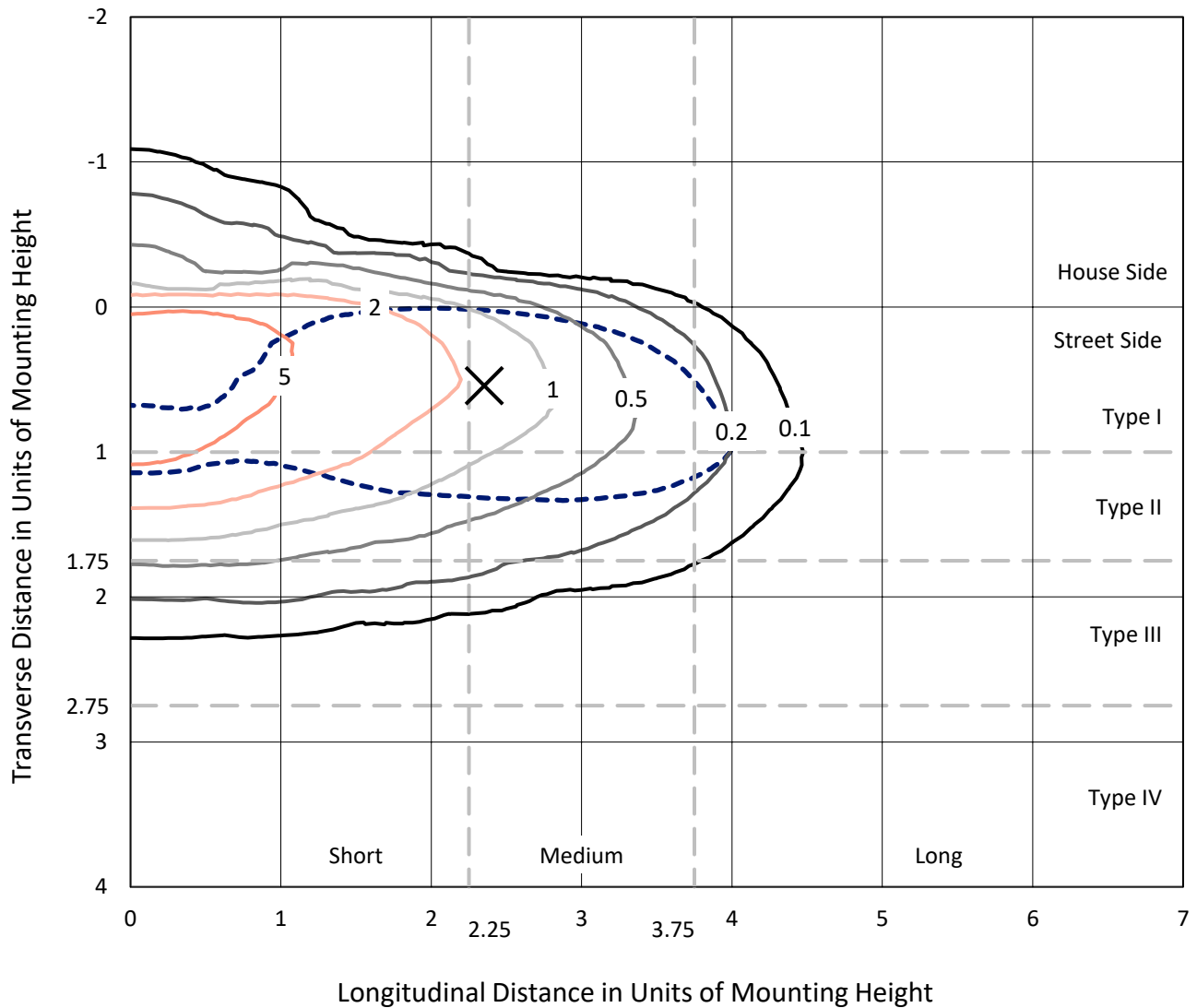
Lumens per Lamp: N/A  
Luminaire Lumens: 20216 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

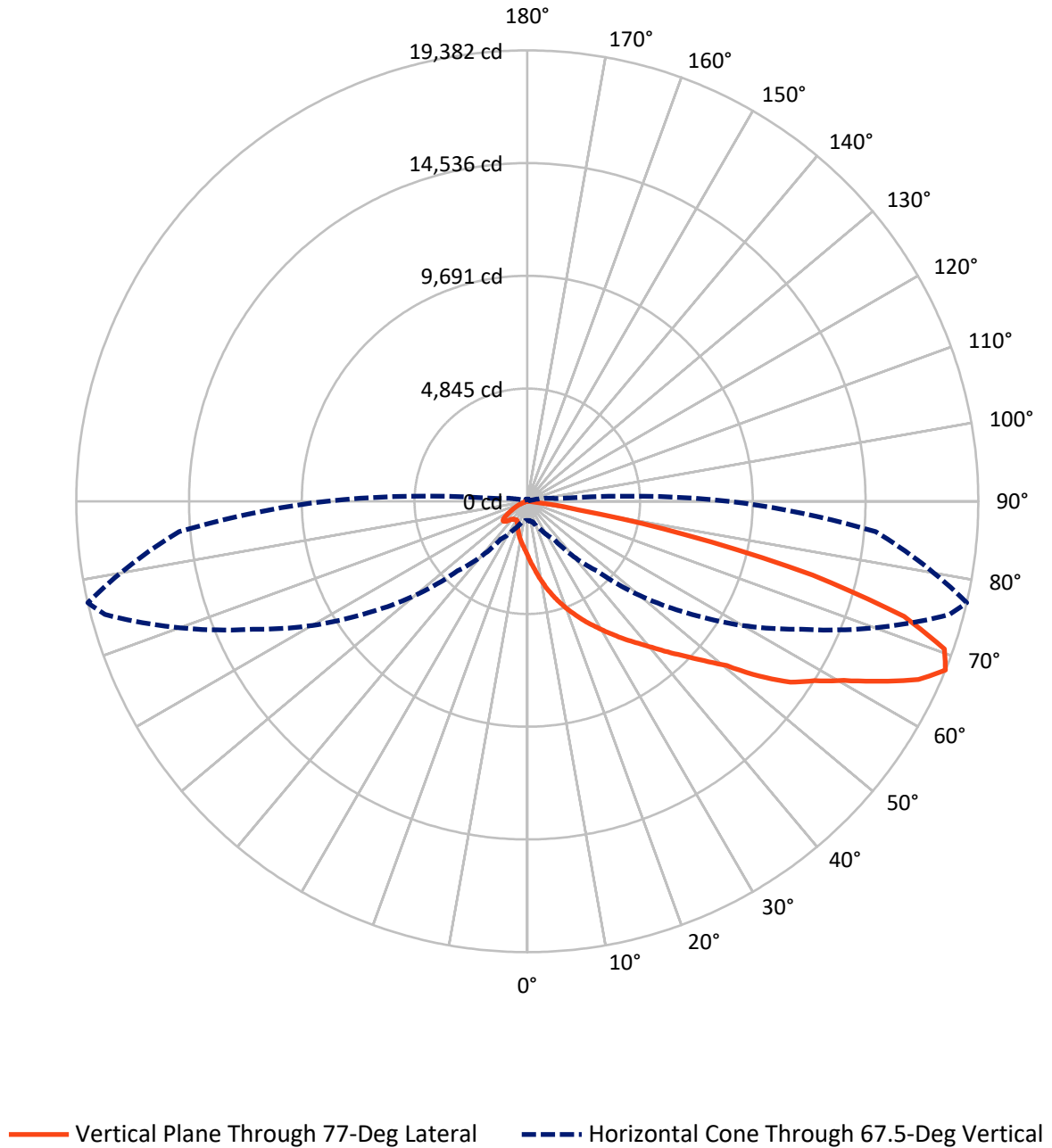
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	1487.3	0.0	1487.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	18728.7	0.0	18728.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	20216.0	0.0	20216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	1.2
10°-20°	833.2	4.1
20°-30°	1607.9	8.0
30°-40°	2791.4	13.8
40°-50°	4053.0	20.0
50°-60°	4654.3	23.0
60°-70°	4040.8	20.0
70°-80°	1903.3	9.4
80°-90°	94.1	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°	20216.0	100.0
0°-180°	20216.0	100.0

**Coefficient of Utilization**



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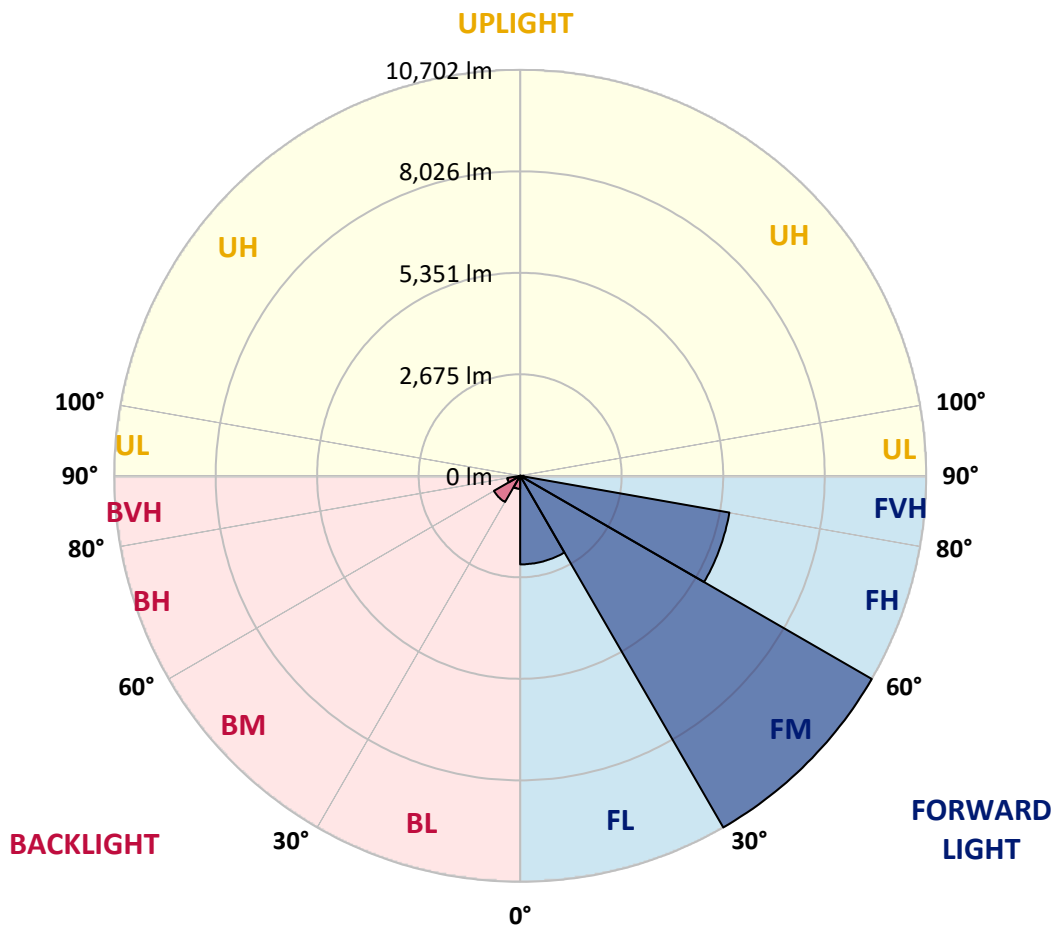
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.7	11.5			
FM (30°-60°)	10701.8	52.9			
FH (60°-80°)	5599.8	27.7			G3/7500
FVH (80°-90°)	92.4	0.5			G1/100
BL (0°-30°)	344.3	1.7	B1/500		
BM (30°-60°)	796.9	3.9	B1/1000		
BH (60°-80°)	344.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	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°	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2
2.5°	3227.5	3247.6	3218.7	3163.5	3080.7	3026.7	2894.9	2770.6	2632.5	2588.6
5°	3934.3	3951.9	3919.2	3859.0	3748.5	3643.1	3469.8	3210.0	2940.1	2853.4
7.5°	4457.8	4467.8	4455.3	4400.0	4294.6	4175.3	3982.0	3674.4	3274.0	3178.6
10°	4834.4	4867.0	4863.3	4841.9	4771.6	4675.0	4469.1	4118.8	3648.1	3525.0
12.5°	5084.2	5120.6	5142.0	5189.7	5185.9	5124.4	4943.6	4573.3	4020.9	3876.5
15°	5157.0	5195.9	5277.5	5388.0	5485.9	5517.3	5390.5	5018.9	4431.4	4246.9
17.5°	5115.6	5175.8	5273.8	5448.3	5662.9	5804.8	5791.0	5449.5	4804.3	4593.4
20°	5207.2	5265.0	5341.6	5488.4	5738.2	5995.6	6098.5	5861.3	5174.6	4953.6
22.5°	5714.4	5704.4	5711.9	5735.7	5885.1	6140.0	6352.1	6235.4	5541.2	5315.2
25°	6517.8	6472.6	6396.1	6266.8	6229.1	6352.1	6573.1	6566.8	5927.8	5685.5
27.5°	7439.3	7431.7	7252.2	6940.9	6765.1	6717.4	6822.9	6889.4	6310.7	6052.1
30°	8321.8	8341.9	8099.6	7753.1	7430.5	7243.4	7148.0	7195.7	6699.9	6447.5
32.5°	9090.1	9111.4	8847.8	8442.3	8043.1	7817.1	7616.3	7498.3	7124.2	6849.2
35°	9739.1	9760.4	9457.9	9009.7	8584.1	8379.5	8152.3	7829.7	7551.0	7294.9
37.5°	10319.1	10312.8	9907.3	9455.4	9037.3	8875.4	8756.1	8237.7	7990.4	7743.1
40°	10661.8	10688.1	10341.6	9843.3	9437.8	9319.8	9312.3	8743.6	8497.5	8257.8
42.5°	10762.2	10808.6	10557.6	10148.3	9780.5	9652.5	9849.5	9290.9	9087.5	8854.0
45°	10581.4	10626.6	10512.4	10228.7	10014.0	9931.1	10311.5	9858.3	9717.7	9486.7
47.5°	10054.2	10110.7	10138.3	10078.0	10075.5	10159.6	10725.8	10455.9	10465.9	10229.9
50°	9033.6	9129.0	9382.6	9596.0	9926.1	10340.4	11128.8	11103.7	11309.5	11106.2
52.5°	7178.1	7313.7	8187.5	8771.2	9513.1	10306.5	11571.9	12143.1	12789.6	12492.1
55°	5768.4	5768.4	6478.9	7571.1	8707.2	10083.0	11765.2	12818.5	13797.7	13727.4
57.5°	4702.6	4759.1	5212.3	6177.6	7540.9	9550.8	11884.5	13242.8	14609.9	14558.4
60°	2902.4	3024.2	3880.3	4833.1	6214.0	8603.0	11809.2	13672.1	15595.3	15636.8
62.5°	1634.5	1679.7	2061.3	3477.3	4831.9	7328.8	11233.0	13911.9	16855.7	17031.5
65°	1128.6	1151.2	1298.0	2164.2	3349.3	5834.9	10106.9	13762.5	18118.6	18473.9
67.5°	819.7	831.0	922.7	1321.9	1987.2	4230.6	8341.9	13009.3	18787.7	19381.5
70°	630.2	637.7	704.3	868.7	1173.8	2611.1	6058.4	11511.6	18303.1	19012.4
72.5°	512.2	519.7	571.2	642.7	778.3	1544.1	3671.9	9348.7	16164.0	16929.8
75°	431.8	441.9	488.3	534.8	610.1	991.7	1722.4	6510.3	12155.6	12657.8
77.5°	239.8	220.9	396.7	443.1	514.7	627.7	805.9	3831.4	6807.8	6947.2
80°	149.4	154.4	315.1	356.5	395.4	316.4	369.1	1475.0	2360.1	2242.1
82.5°	8.8	20.1	242.3	257.3	271.2	135.6	139.3	500.9	568.7	522.2
85°	0.0	0.0	110.5	89.1	94.2	38.9	40.2	116.7	76.6	82.9
87.5°	0.0	0.0	0.0	2.5	0.0	3.8	7.5	10.0	3.8	5.0
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°
2331.2	0°	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2	2331.2
2450.5	2.5°	2362.6	2274.7	2096.4	1922.0	1780.1	1648.3	1554.1	1465.0	1419.8	1417.3
2608.6	5°	2434.1	2249.6	1893.1	1578.0	1324.4	1121.0	989.2	895.1	847.4	831.0
2803.2	7.5°	2534.6	2257.1	1714.8	1276.7	977.9	803.4	728.1	698.0	687.9	676.6
3022.9	10°	2661.4	2274.7	1555.4	1028.1	770.8	682.9	652.8	640.2	632.7	625.2
3270.2	12.5°	2803.2	2291.0	1397.2	853.6	677.9	632.7	611.4	596.3	586.3	577.5
3523.8	15°	2941.3	2301.1	1232.8	731.9	630.2	593.8	571.2	554.9	541.1	531.0
3772.4	17.5°	3078.1	2314.9	1078.4	659.1	591.3	554.9	532.3	512.2	500.9	489.6
4033.5	20°	3230.0	2312.4	932.7	607.6	552.4	516.0	492.1	473.3	462.0	449.4
4309.6	22.5°	3370.6	2299.8	804.7	563.7	512.2	477.0	450.7	431.8	420.5	410.5
4592.1	25°	3532.6	2289.8	698.0	523.5	474.5	439.4	410.5	392.9	380.4	371.6
4875.8	27.5°	3688.2	2274.7	620.1	487.1	438.1	404.2	376.6	356.5	345.2	338.9
5168.3	30°	3841.4	2270.9	591.3	451.9	405.5	371.6	344.0	325.1	316.4	313.8
5489.7	32.5°	4025.9	2281.0	603.8	439.4	375.4	341.5	315.1	301.3	292.5	292.5
5847.5	35°	4223.0	2278.5	622.7	450.7	355.3	311.3	291.2	282.5	273.7	273.7
6244.2	37.5°	4470.3	2282.2	637.7	469.5	347.7	286.2	274.9	263.6	258.6	258.6
6678.5	40°	4839.4	2406.5	630.2	485.8	345.2	268.6	246.1	242.3	238.5	238.5
7169.4	42.5°	5291.3	2676.4	640.2	487.1	344.0	256.1	226.0	233.5	224.7	223.5
7723.0	45°	5786.0	2971.4	704.3	460.7	342.7	249.8	215.9	224.7	210.9	210.9
8364.5	47.5°	6276.8	3263.9	769.5	423.1	338.9	248.6	207.1	202.1	198.3	199.6
9200.5	50°	6953.4	3502.5	794.6	371.6	330.2	246.1	190.8	192.1	189.6	192.1
10379.3	52.5°	7690.3	3552.7	764.5	313.8	305.1	238.5	179.5	184.5	183.3	185.8
11209.1	55°	8149.8	3498.7	631.4	261.1	266.1	208.4	168.2	178.3	178.3	178.3
12020.1	57.5°	8624.3	3269.0	448.2	212.2	220.9	170.7	158.2	172.0	170.7	169.5
12996.7	60°	8965.8	2897.4	295.0	174.5	175.8	140.6	146.9	161.9	160.7	154.4
14003.5	62.5°	9220.6	2486.9	189.6	148.1	134.3	126.8	134.3	146.9	141.9	128.0
14857.2	65°	9191.7	1918.2	145.6	126.8	110.5	110.5	116.7	128.0	113.0	90.4
15020.4	67.5°	8655.7	1298.0	120.5	106.7	92.9	91.6	96.7	106.7	96.7	76.6
14184.3	70°	7697.9	848.6	96.7	82.9	74.1	67.8	77.8	91.6	81.6	61.5
12075.3	72.5°	6247.9	517.2	72.8	60.3	54.0	43.9	61.5	75.3	65.3	45.2
8397.1	75°	4042.3	263.6	50.2	38.9	28.9	26.4	45.2	56.5	45.2	27.6
3725.9	77.5°	1546.6	110.5	27.6	17.6	15.1	12.6	25.1	33.9	18.8	6.3
721.8	80°	297.5	46.4	13.8	8.8	7.5	5.0	3.8	2.5	0.0	0.0
128.0	82.5°	51.5	15.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
25.1	85°	17.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	6.3	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°
2331.2
1414.8
828.5
674.1
622.7
575.0
529.8
488.3
448.2
409.2
370.3
338.9
312.6
292.5
273.7
258.6
238.5
222.2
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