

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: P949673

Luminaire Tested: **GALN-SB4B-835-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949673  
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-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

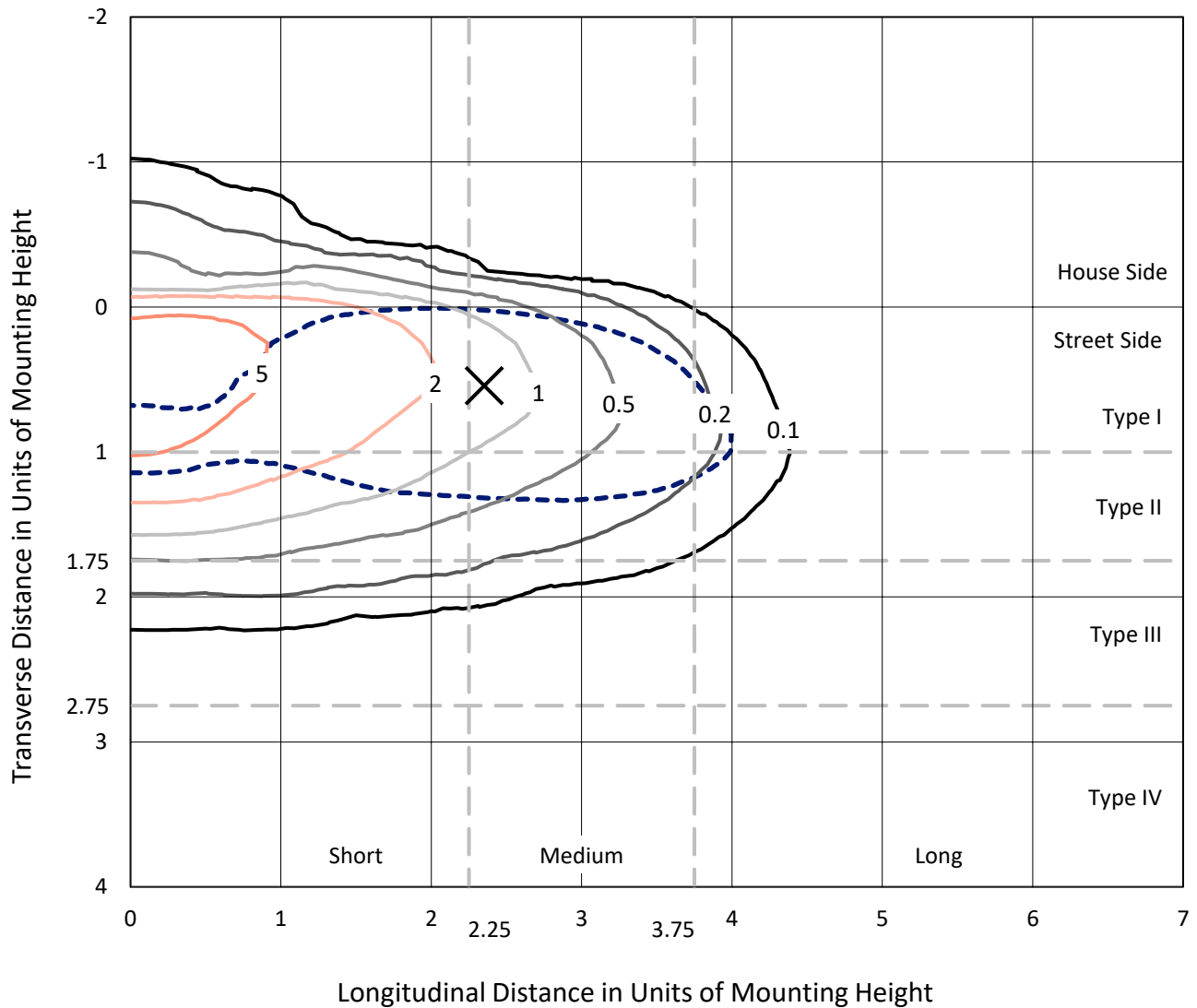
Lumens per Lamp: N/A  
Luminaire Lumens: 17723 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

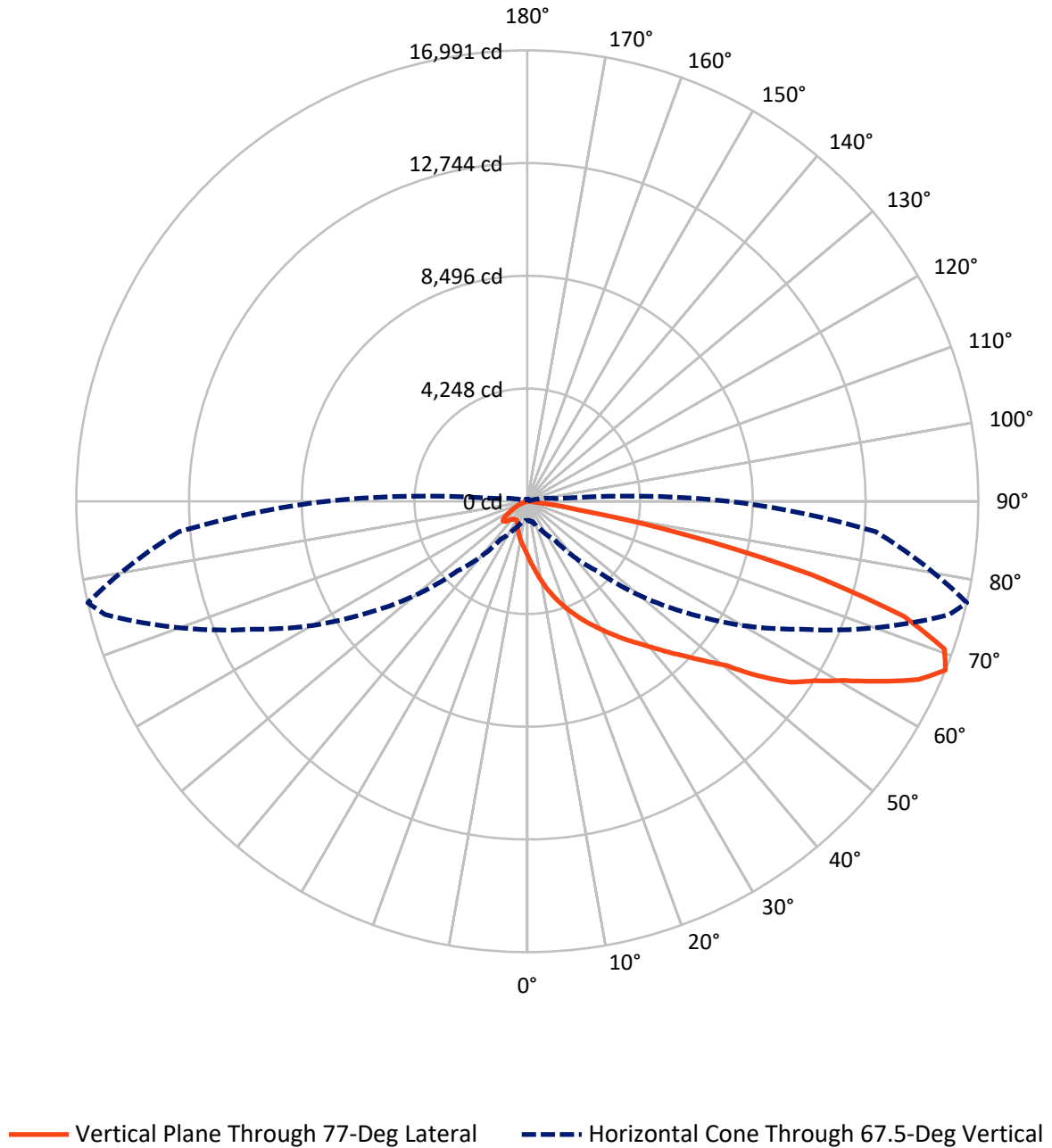
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1303.9	0.0	1303.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	16419.1	0.0	16419.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	17723.0	0.0	17723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.6	1.2
10°-20°	730.5	4.1
20°-30°	1409.6	8.0
30°-40°	2447.2	13.8
40°-50°	3553.2	20.0
50°-60°	4080.4	23.0
60°-70°	3542.5	20.0
70°-80°	1668.6	9.4
80°-90°	82.5	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°	17723.0	100.0
0°-180°	17723.0	100.0

**Coefficient of Utilization**



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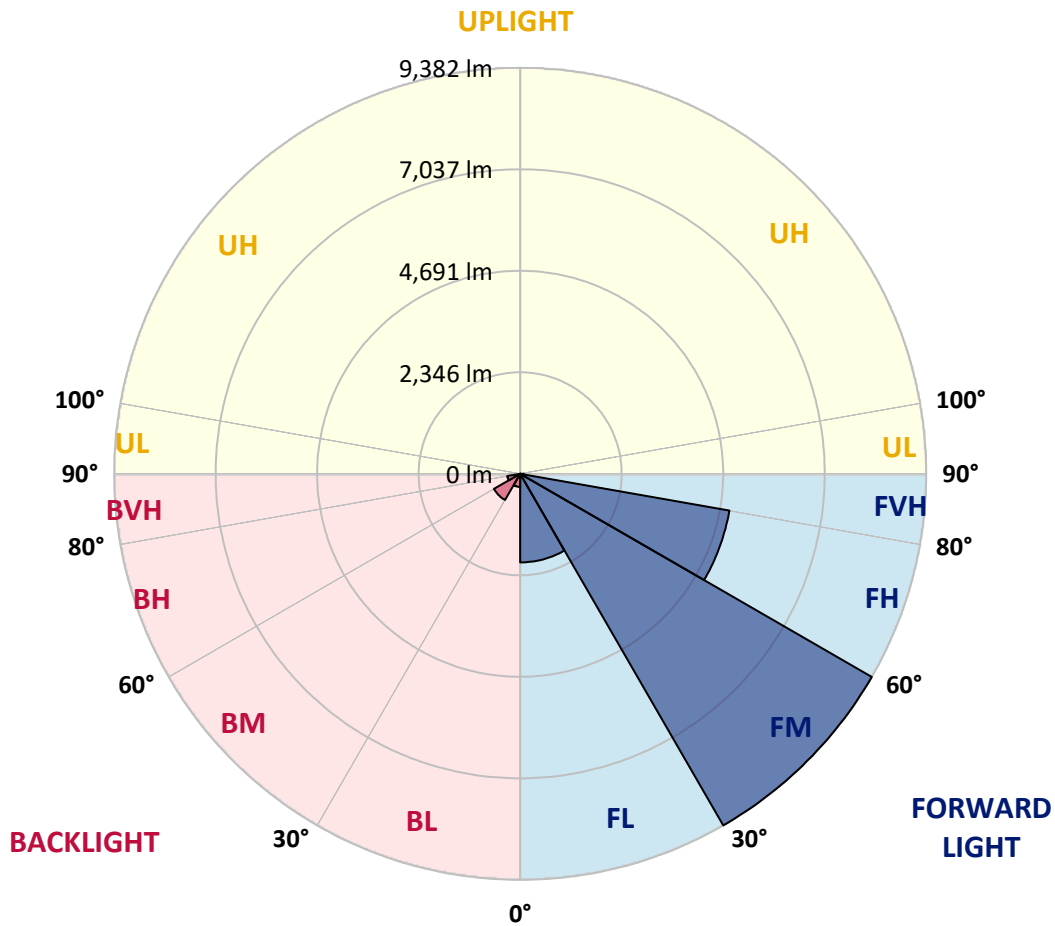
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.8	11.5			
FM (30°-60°)	9382.1	52.9			
FH (60°-80°)	4909.2	27.7			G2/5000
FVH (80°-90°)	81.0	0.5			G1/100
BL (0°-30°)	301.9	1.7	B1/500		
BM (30°-60°)	698.6	3.9	B1/1000		
BH (60°-80°)	301.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7
2.5°	2829.5	2847.1	2821.8	2773.4	2700.8	2653.4	2537.9	2428.9	2307.9	2269.3
5°	3449.1	3464.5	3435.9	3383.1	3286.2	3193.8	3041.9	2814.1	2577.5	2501.6
7.5°	3908.1	3916.9	3905.9	3857.4	3765.0	3660.4	3490.9	3221.3	2870.2	2786.6
10°	4238.2	4266.8	4263.5	4244.8	4183.2	4098.5	3918.0	3610.9	3198.2	3090.3
12.5°	4457.2	4489.1	4507.9	4549.7	4546.4	4492.4	4334.0	4009.3	3525.1	3398.5
15°	4521.1	4555.2	4626.7	4723.6	4809.4	4836.9	4725.8	4400.0	3884.9	3723.2
17.5°	4484.7	4537.6	4623.4	4776.4	4964.6	5088.9	5076.8	4777.5	4211.8	4026.9
20°	4565.1	4615.7	4682.8	4811.6	5030.6	5256.2	5346.5	5138.5	4536.5	4342.8
22.5°	5009.7	5000.9	5007.5	5028.4	5159.4	5382.8	5568.8	5466.4	4857.8	4659.7
25°	5714.1	5674.4	5607.3	5493.9	5460.9	5568.8	5762.5	5757.0	5196.8	4984.4
27.5°	6521.9	6515.3	6357.9	6084.9	5930.9	5889.0	5981.5	6039.8	5532.5	5305.8
30°	7295.5	7313.2	7100.8	6797.0	6514.2	6350.2	6266.5	6308.4	5873.6	5652.4
32.5°	7969.1	7987.8	7756.7	7401.2	7051.2	6853.1	6677.0	6573.6	6245.6	6004.6
35°	8538.1	8556.8	8291.5	7898.7	7525.6	7346.2	7147.0	6864.1	6619.8	6395.3
37.5°	9046.5	9041.0	8685.5	8289.3	7922.9	7780.9	7676.3	7221.8	7005.0	6788.2
40°	9347.0	9370.1	9066.3	8629.4	8273.9	8170.5	8163.9	7665.3	7449.6	7239.4
42.5°	9435.0	9475.7	9255.6	8896.9	8574.4	8462.1	8634.9	8145.2	7966.9	7762.2
45°	9276.5	9316.2	9216.0	8967.3	8779.1	8706.5	9039.9	8642.6	8519.4	8316.9
47.5°	8814.3	8863.8	8888.0	8835.2	8833.0	8906.8	9403.1	9166.5	9175.3	8968.4
50°	7919.6	8003.2	8225.5	8412.6	8702.1	9065.2	9756.4	9734.4	9914.9	9736.6
52.5°	6292.9	6411.8	7177.8	7689.5	8340.0	9035.5	10144.9	10645.6	11212.4	10951.6
55°	5057.0	5057.0	5679.9	6637.4	7633.4	8839.6	10314.4	11237.7	12096.2	12034.5
57.5°	4122.7	4172.2	4569.5	5415.8	6611.0	8373.0	10418.9	11609.7	12808.2	12763.1
60°	2544.5	2651.2	3401.8	4237.1	5447.7	7542.1	10352.9	11986.1	13672.1	13708.5
62.5°	1432.9	1472.5	1807.1	3048.5	4236.0	6425.0	9847.7	12196.3	14777.1	14931.2
65°	989.4	1009.2	1138.0	1897.3	2936.3	5115.4	8860.5	12065.3	15884.2	16195.7
67.5°	718.7	728.6	808.9	1158.9	1742.2	3708.9	7313.2	11405.0	16470.8	16991.4
70°	552.5	559.1	617.4	761.6	1029.0	2289.1	5311.3	10092.0	16046.0	16667.8
72.5°	449.0	455.6	500.8	563.5	682.3	1353.7	3219.1	8195.8	14170.7	14842.0
75°	378.6	387.4	428.1	468.8	534.9	869.4	1510.0	5707.5	10656.6	11096.9
77.5°	210.2	193.7	347.8	388.5	451.2	550.3	706.6	3358.9	5968.3	6090.4
80°	131.0	135.4	276.2	312.6	346.7	277.3	323.6	1293.1	2069.0	1965.6
82.5°	7.7	17.6	212.4	225.6	237.7	118.9	122.2	439.1	498.5	457.8
85°	0.0	0.0	96.8	78.1	82.5	34.1	35.2	102.4	67.1	72.6
87.5°	0.0	0.0	0.0	2.2	0.0	3.3	6.6	8.8	3.3	4.4
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°
2043.7	0°	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7
2148.3	2.5°	2071.2	1994.2	1837.9	1684.9	1560.6	1445.0	1362.5	1284.3	1244.7	1242.5
2286.9	5°	2134.0	1972.2	1659.6	1383.4	1161.1	982.8	867.2	784.7	742.9	728.6
2457.5	7.5°	2222.0	1978.8	1503.4	1119.3	857.3	704.4	638.3	611.9	603.1	593.2
2650.1	10°	2333.2	1994.2	1363.6	901.4	675.7	598.7	572.3	561.3	554.7	548.1
2866.9	12.5°	2457.5	2008.5	1224.9	748.4	594.3	554.7	536.0	522.8	514.0	506.3
3089.2	15°	2578.6	2017.3	1080.7	641.6	552.5	520.6	500.8	486.4	474.3	465.5
3307.2	17.5°	2698.6	2029.4	945.4	577.8	518.4	486.4	466.6	449.0	439.1	429.2
3536.1	20°	2831.7	2027.2	817.7	532.7	484.2	452.3	431.4	414.9	405.0	394.0
3778.2	22.5°	2955.0	2016.2	705.5	494.1	449.0	418.2	395.1	378.6	368.7	359.9
4025.8	25°	3096.9	2007.4	611.9	458.9	416.0	385.2	359.9	344.5	333.5	325.8
4274.5	27.5°	3233.4	1994.2	543.7	427.0	384.1	354.4	330.2	312.6	302.7	297.1
4531.0	30°	3367.7	1990.9	518.4	396.2	355.5	325.8	301.6	285.0	277.3	275.1
4812.7	32.5°	3529.5	1999.7	529.4	385.2	329.1	299.3	276.2	264.1	256.4	256.4
5126.4	35°	3702.3	1997.5	545.9	395.1	311.5	272.9	255.3	247.6	239.9	239.9
5474.1	37.5°	3919.1	2000.8	559.1	411.6	304.9	250.9	241.0	231.1	226.7	226.7
5854.9	40°	4242.6	2109.8	552.5	425.9	302.7	235.5	215.7	212.4	209.1	209.1
6285.2	42.5°	4638.8	2346.4	561.3	427.0	301.6	224.5	198.1	204.7	197.0	195.9
6770.6	45°	5072.4	2605.0	617.4	403.9	300.5	219.0	189.3	197.0	184.9	184.9
7333.0	47.5°	5502.8	2861.4	674.6	370.9	297.1	217.9	181.6	177.2	173.9	175.0
8065.9	50°	6095.9	3070.5	696.6	325.8	289.4	215.7	167.3	168.4	166.2	168.4
9099.4	52.5°	6742.0	3114.6	670.2	275.1	267.4	209.1	157.4	161.8	160.7	162.9
9826.8	55°	7144.8	3067.2	553.6	228.9	233.3	182.7	147.5	156.3	156.3	156.3
10537.8	57.5°	7560.8	2865.8	392.9	186.0	193.7	149.7	138.7	150.8	149.7	148.6
11394.0	60°	7860.1	2540.1	258.6	153.0	154.1	123.3	128.8	142.0	140.9	135.4
12276.6	62.5°	8083.5	2180.2	166.2	129.9	117.8	111.2	117.8	128.8	124.4	112.3
13025.0	65°	8058.2	1681.6	127.7	111.2	96.8	96.8	102.4	112.3	99.0	79.2
<b>13168.1</b>	67.5°	<b>7588.3</b>	<b>1138.0</b>	<b>105.7</b>	<b>93.5</b>	<b>81.4</b>	<b>80.3</b>	<b>84.7</b>	<b>93.5</b>	<b>84.7</b>	<b>67.1</b>
12435.1	70°	6748.6	744.0	84.7	72.6	64.9	59.4	68.2	80.3	71.5	53.9
10586.2	72.5°	5477.4	453.4	63.8	52.8	47.3	38.5	53.9	66.0	57.2	39.6
7361.6	75°	3543.8	231.1	44.0	34.1	25.3	23.1	39.6	49.5	39.6	24.2
3266.4	77.5°	1355.9	96.8	24.2	15.4	13.2	11.0	22.0	29.7	16.5	5.5
632.8	80°	260.8	40.7	12.1	7.7	6.6	4.4	3.3	2.2	0.0	0.0
112.3	82.5°	45.1	13.2	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
22.0	85°	15.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	5.5	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°
2043.7
1240.3
726.4
591.0
545.9
504.1
464.4
428.1
392.9
358.8
324.7
297.1
274.0
256.4
239.9
226.7
209.1
194.8
184.9
175.0
168.4
162.9
156.3
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