

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: P948287

Luminaire Tested: **GALN-SB3B-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948287  
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-SB3B-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

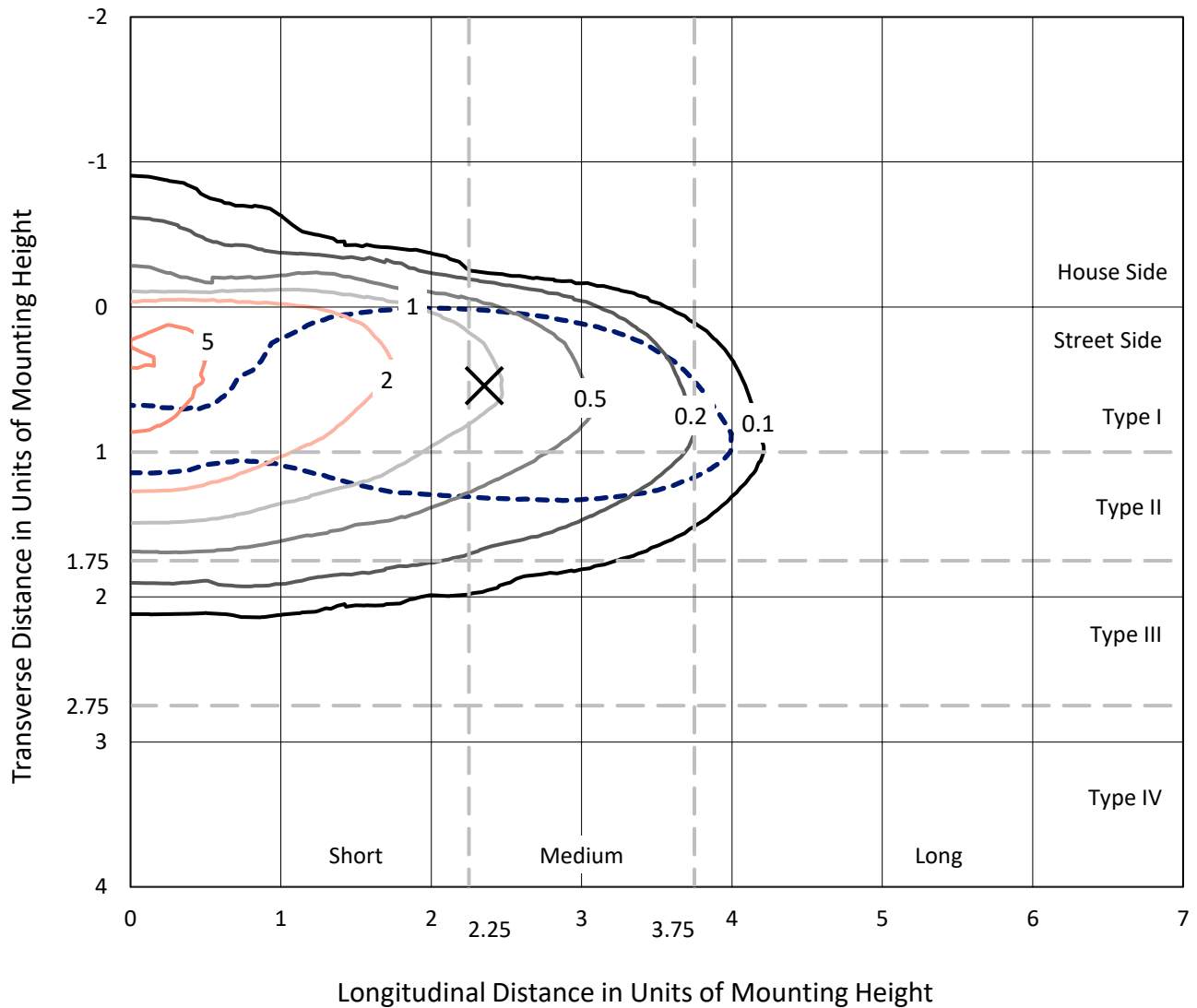
Lumens per Lamp: N/A  
Luminaire Lumens: 13683 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

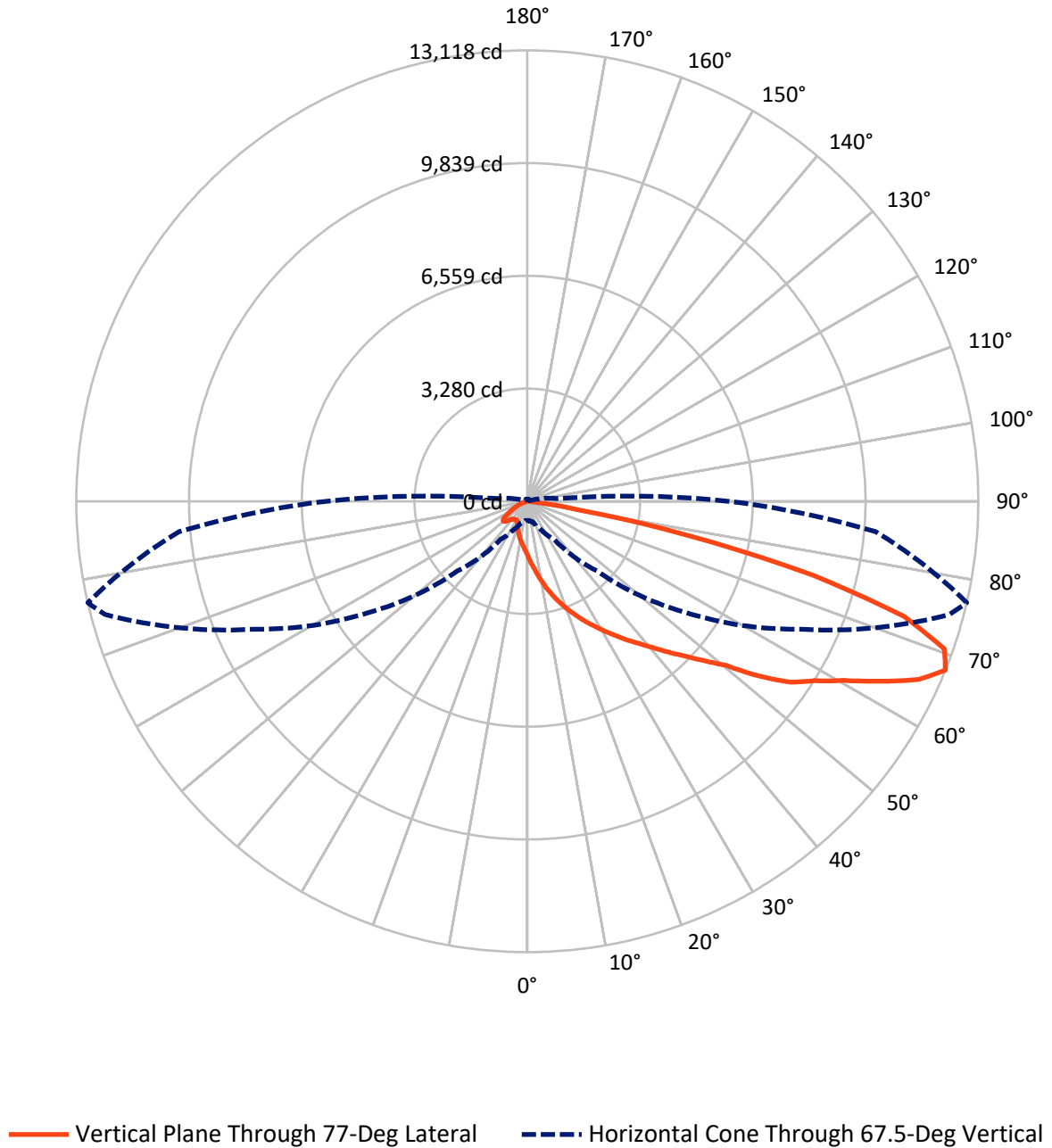
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1006.7	0.0	1006.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	12676.3	0.0	12676.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	13683.0	0.0	13683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	1.2
10°-20°	564.0	4.1
20°-30°	1088.3	8.0
30°-40°	1889.3	13.8
40°-50°	2743.2	20.0
50°-60°	3150.2	23.0
60°-70°	2735.0	20.0
70°-80°	1288.2	9.4
80°-90°	63.7	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°	13683.0	100.0
0°-180°	13683.0	100.0

**Coefficient of Utilization**



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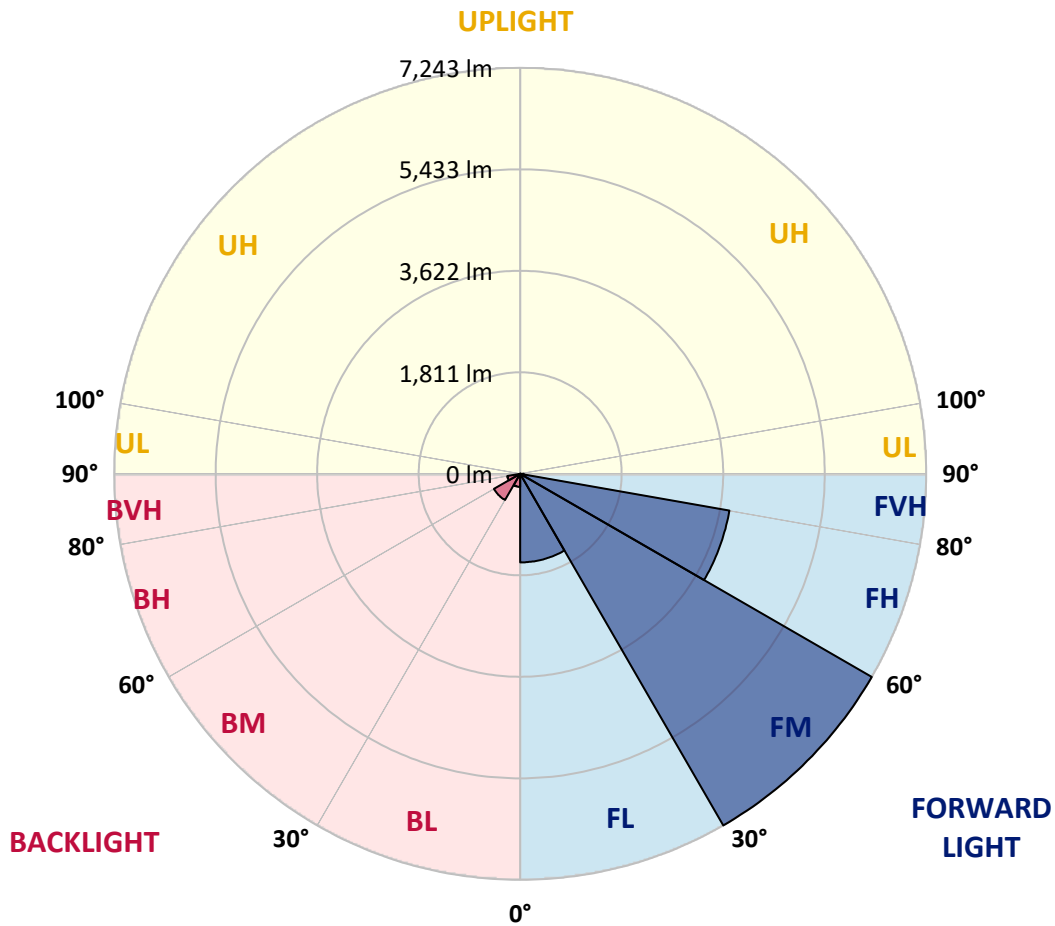
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.2	11.5			
FM (30°-60°)	7243.4	52.9			
FH (60°-80°)	3790.1	27.7			G2/5000
FVH (80°-90°)	62.5	0.5			G1/100
BL (0°-30°)	233.1	1.7	B1/500		
BM (30°-60°)	539.4	3.9	B1/1000		
BH (60°-80°)	233.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9
2.5°	2184.5	2198.1	2178.6	2141.2	2085.1	2048.6	1959.4	1875.2	1781.8	1752.0
5°	2662.9	2674.8	2652.7	2611.9	2537.1	2465.8	2348.5	2172.6	1989.9	1931.3
7.5°	3017.2	3024.0	3015.5	2978.1	2906.7	2826.0	2695.2	2487.0	2216.0	2151.4
10°	3272.1	3294.2	3291.7	3277.2	3229.6	3164.2	3024.9	2787.8	2469.2	2385.9
12.5°	3441.2	3465.8	3480.3	3512.6	3510.0	3468.4	3346.0	3095.4	2721.5	2623.8
15°	3490.5	3516.8	3572.0	3646.8	3713.1	3734.3	3648.5	3397.0	2999.4	2874.5
17.5°	3462.4	3503.2	3569.5	3687.6	3832.9	3928.9	3919.6	3688.4	3251.7	3109.0
20°	3524.5	3563.5	3615.4	3714.8	3883.9	4058.1	4127.7	3967.1	3502.4	3352.8
22.5°	3867.7	3860.9	3866.0	3882.2	3983.3	4155.8	4299.4	4220.3	3750.5	3597.5
25°	4411.5	4380.9	4329.1	4241.6	4216.1	4299.4	4448.9	4444.7	4012.2	3848.2
27.5°	5035.2	5030.1	4908.6	4697.9	4578.9	4546.6	4618.0	4663.0	4271.3	4096.3
30°	5632.5	5646.1	5482.1	5247.6	5029.2	4902.6	4838.1	4870.4	4534.7	4363.9
32.5°	6152.5	6167.0	5988.5	5714.1	5443.9	5290.9	5155.0	5075.1	4821.9	4635.8
35°	6591.8	6606.2	6401.5	6098.1	5810.1	5671.6	5517.8	5299.4	5110.8	4937.5
37.5°	6984.3	6980.1	6705.7	6399.8	6116.8	6007.2	5926.5	5575.6	5408.2	5240.8
40°	7216.3	7234.2	6999.6	6662.3	6387.9	6308.0	6302.9	5918.0	5751.5	5589.2
42.5°	7284.3	7315.7	7145.8	6868.8	6619.8	6533.2	6666.6	6288.5	6150.8	5992.8
45°	7161.9	7192.5	7115.2	6923.2	6777.9	6721.8	6979.3	6672.5	6577.4	6421.0
47.5°	6805.1	6843.3	6862.0	6821.2	6819.5	6876.4	7259.6	7077.0	7083.8	6924.0
50°	6114.3	6178.9	6350.5	6494.9	6718.4	6998.8	7532.4	7515.4	7654.7	7517.1
52.5°	4858.5	4950.2	5541.6	5936.7	6438.9	6975.9	7832.3	8218.9	8656.5	8455.1
55°	3904.3	3904.3	4385.2	5124.4	5893.4	6824.6	7963.2	8676.1	9338.8	9291.2
57.5°	3182.9	3221.1	3527.9	4181.3	5104.0	6464.3	8043.9	8963.2	9888.5	9853.7
60°	1964.5	2046.9	2626.4	3271.3	4205.9	5822.8	7992.9	9253.8	10555.5	10583.6
62.5°	1106.3	1136.9	1395.2	2353.6	3270.4	4960.4	7602.9	9416.1	11408.6	11527.6
65°	763.9	779.2	878.6	1464.8	2266.9	3949.3	6840.8	9315.0	12263.4	12503.9
67.5°	554.8	562.5	624.5	894.7	1345.0	2863.4	5646.1	8805.2	12716.3	13118.2
70°	426.5	431.6	476.7	588.0	794.4	1767.3	4100.5	7791.5	12388.3	12868.4
72.5°	346.7	351.8	386.6	435.0	526.8	1045.1	2485.3	6327.5	10940.4	11458.8
75°	292.3	299.1	330.5	362.0	412.9	671.2	1165.8	4406.4	8227.4	8567.3
77.5°	162.3	149.5	268.5	299.9	348.4	424.8	545.5	2593.2	4607.8	4702.1
80°	101.1	104.5	213.3	241.3	267.6	214.1	249.8	998.4	1597.4	1517.5
82.5°	5.9	13.6	164.0	174.2	183.5	91.8	94.3	339.0	384.9	353.5
85°	0.0	0.0	74.8	60.3	63.7	26.3	27.2	79.0	51.8	56.1
87.5°	0.0	0.0	0.0	1.7	0.0	2.5	5.1	6.8	2.5	3.4
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°
1577.9	0°	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9	1577.9
1658.6	2.5°	1599.1	1539.6	1419.0	1300.9	1204.8	1115.6	1051.9	991.6	961.0	959.3
1765.6	5°	1647.5	1522.6	1281.3	1068.0	896.4	758.8	669.5	605.8	573.5	562.5
1897.3	7.5°	1715.5	1527.7	1160.7	864.1	661.9	543.8	492.8	472.4	465.6	458.0
2046.0	10°	1801.3	1539.6	1052.8	695.9	521.7	462.2	441.8	433.3	428.2	423.1
2213.4	12.5°	1897.3	1550.7	945.7	577.8	458.8	428.2	413.8	403.6	396.8	390.9
2385.0	15°	1990.8	1557.5	834.4	495.4	426.5	401.9	386.6	375.6	366.2	359.4
2553.3	17.5°	2083.4	1566.8	729.9	446.1	400.2	375.6	360.3	346.7	339.0	331.4
2730.0	20°	2186.2	1565.1	631.3	411.2	373.9	349.2	333.1	320.3	312.7	304.2
2916.9	22.5°	2281.4	1556.6	544.6	381.5	346.7	322.9	305.0	292.3	284.6	277.8
3108.1	25°	2391.0	1549.8	472.4	354.3	321.2	297.4	277.8	265.9	257.5	251.5
3300.1	27.5°	2496.4	1539.6	419.7	329.7	296.5	273.6	254.9	241.3	233.7	229.4
3498.1	30°	2600.0	1537.1	400.2	305.9	274.4	251.5	232.8	220.1	214.1	212.4
3715.6	32.5°	2724.9	1543.9	408.7	297.4	254.1	231.1	213.3	203.9	198.0	198.0
3957.8	35°	2858.3	1542.2	421.4	305.0	240.5	210.7	197.1	191.2	185.2	185.2
4226.3	37.5°	3025.7	1544.7	431.6	317.8	235.4	193.7	186.1	178.4	175.0	175.0
4520.3	40°	3275.5	1628.8	426.5	328.8	233.7	181.8	166.5	164.0	161.4	161.4
4852.5	42.5°	3581.4	1811.5	433.3	329.7	232.8	173.3	152.9	158.0	152.1	151.2
5227.2	45°	3916.2	2011.2	476.7	311.8	232.0	169.1	146.1	152.1	142.7	142.7
5661.4	47.5°	4248.4	2209.2	520.9	286.3	229.4	168.2	140.2	136.8	134.2	135.1
6227.3	50°	4706.4	2370.6	537.8	251.5	223.5	166.5	129.2	130.0	128.3	130.0
7025.1	52.5°	5205.1	2404.6	517.5	212.4	206.5	161.4	121.5	124.9	124.1	125.8
7586.8	55°	5516.1	2368.1	427.4	176.7	180.1	141.0	113.9	120.7	120.7	120.7
8135.7	57.5°	5837.3	2212.6	303.3	143.6	149.5	115.6	107.1	116.4	115.6	114.7
8796.7	60°	6068.4	1961.1	199.7	118.1	119.0	95.2	99.4	109.6	108.8	104.5
9478.2	62.5°	6240.9	1683.2	128.3	100.3	90.9	85.8	90.9	99.4	96.0	86.7
10055.9	65°	6221.3	1298.3	98.6	85.8	74.8	74.8	79.0	86.7	76.5	61.2
10166.4	67.5°	5858.5	878.6	81.6	72.2	62.9	62.0	65.4	72.2	65.4	51.8
9600.5	70°	5210.2	574.4	65.4	56.1	50.1	45.9	52.7	62.0	55.2	41.6
8173.0	72.5°	4228.8	350.1	49.3	40.8	36.5	29.7	41.6	51.0	44.2	30.6
5683.5	75°	2736.0	178.4	34.0	26.3	19.5	17.8	30.6	38.2	30.6	18.7
2521.8	77.5°	1046.8	74.8	18.7	11.9	10.2	8.5	17.0	22.9	12.7	4.2
488.6	80°	201.4	31.4	9.3	5.9	5.1	3.4	2.5	1.7	0.0	0.0
86.7	82.5°	34.8	10.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
17.0	85°	11.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	4.2	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°
1577.9
957.6
560.8
456.3
421.4
389.2
358.6
330.5
303.3
277.0
250.7
229.4
211.6
198.0
185.2
175.0
161.4
150.4
142.7
135.1
130.0
125.8
120.7
114.7
104.5
85.0
59.5
50.1
39.9
28.9
16.1
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