

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: P949295

Luminaire Tested: **GALN-SB4A-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949295  
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-SB4A-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

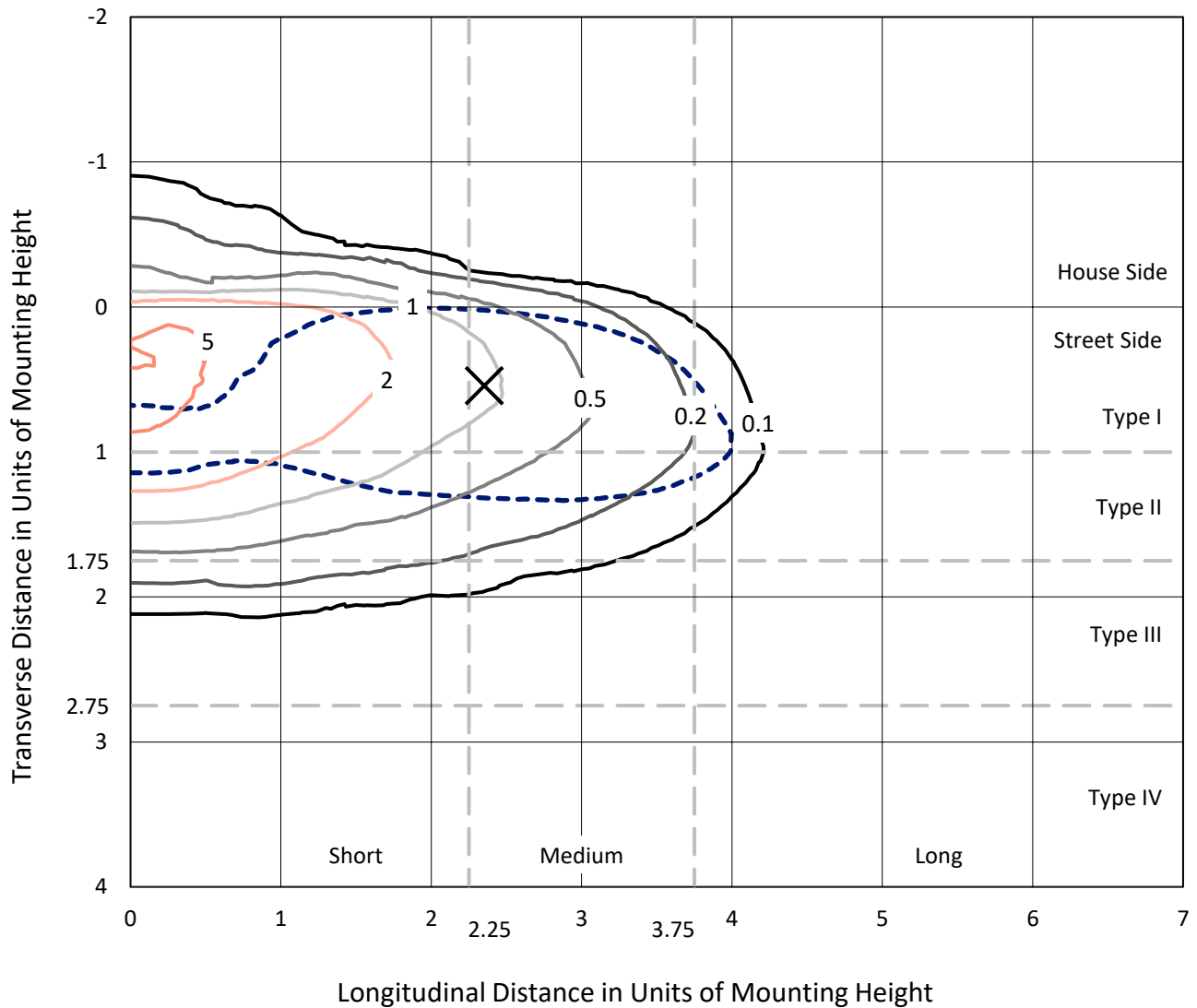
Lumens per Lamp: N/A  
Luminaire Lumens: 13677 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

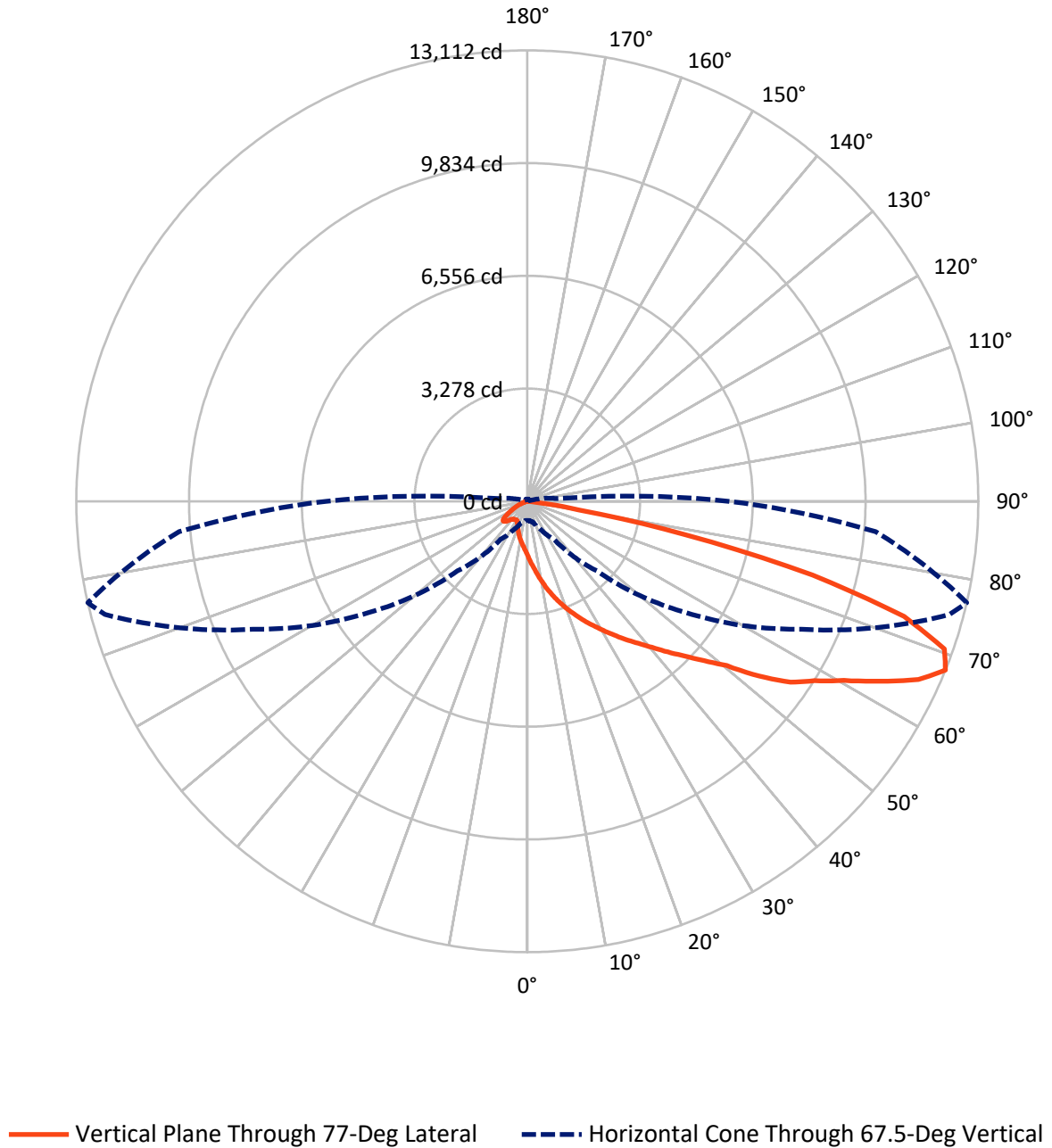
✕ Max cd  
 - - - 1/2 Max cd



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	1006.2	0.0	1006.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	12670.8	0.0	12670.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	13677.0	0.0	13677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	1.2
10°-20°	563.7	4.1
20°-30°	1087.8	8.0
30°-40°	1888.5	13.8
40°-50°	2742.0	20.0
50°-60°	3148.9	23.0
60°-70°	2733.8	20.0
70°-80°	1287.6	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°	13677.0	100.0
0°-180°	13677.0	100.0

**Coefficient of Utilization**



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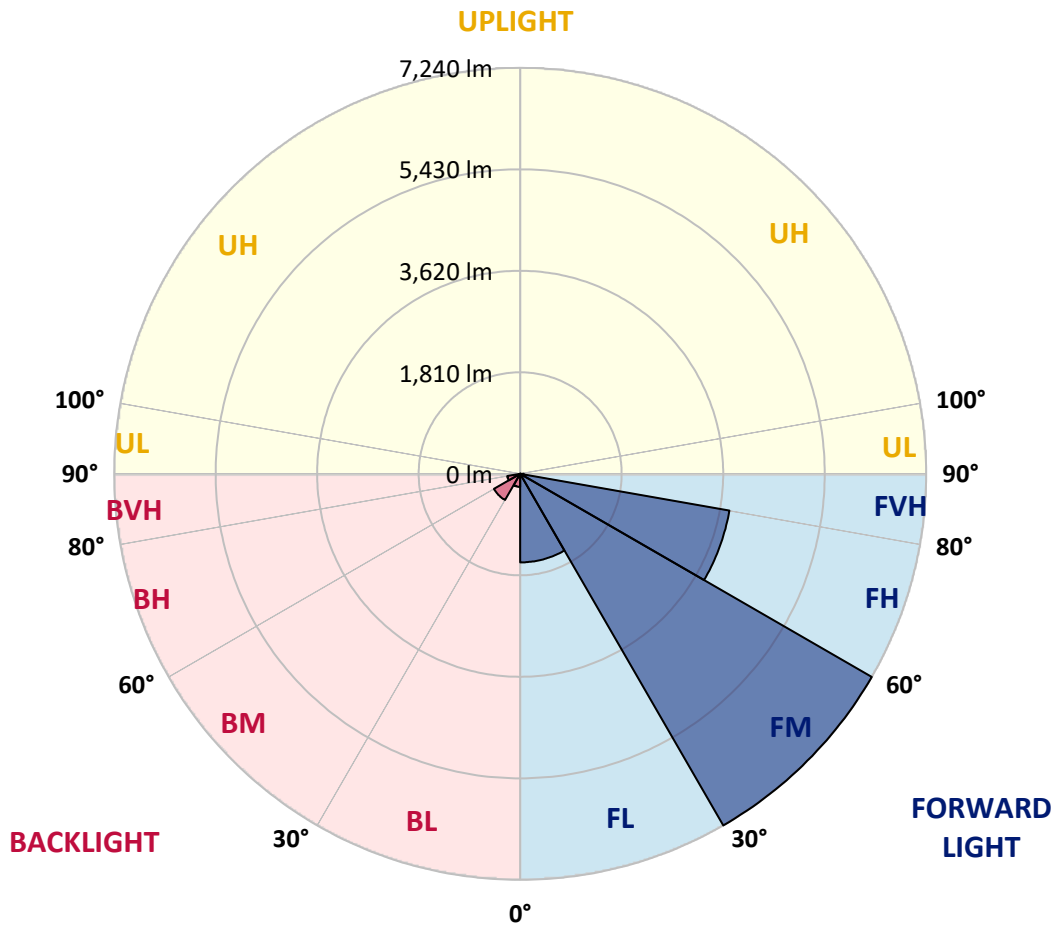
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.5	11.5			
FM (30°-60°)	7240.2	52.9			
FH (60°-80°)	3788.5	27.7			G2/5000
FVH (80°-90°)	62.5	0.5			G1/100
BL (0°-30°)	233.0	1.7	B1/500		
BM (30°-60°)	539.2	3.9	B1/1000		
BH (60°-80°)	232.9	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°	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2
2.5°	2183.6	2197.2	2177.6	2140.2	2084.2	2047.7	1958.5	1874.4	1781.0	1751.3
5°	2661.7	2673.6	2651.5	2610.8	2536.0	2464.7	2347.5	2171.7	1989.1	1930.5
7.5°	3015.9	3022.7	3014.2	2976.8	2905.5	2824.8	2694.0	2485.9	2215.0	2150.4
10°	3270.7	3292.8	3290.2	3275.8	3228.2	3162.8	3023.5	2786.6	2468.1	2384.8
12.5°	3439.7	3464.3	3478.8	3511.0	3508.5	3466.9	3344.6	3094.0	2720.3	2622.7
15°	3488.9	3515.3	3570.5	3645.2	3711.5	3732.7	3646.9	3395.5	2998.0	2873.2
17.5°	3460.9	3501.7	3567.9	3686.0	3831.2	3927.2	3917.8	3686.8	3250.3	3107.6
20°	3522.9	3562.0	3613.8	3713.2	3882.2	4056.3	4125.9	3965.4	3500.8	3351.4
22.5°	3866.0	3859.2	3864.3	3880.5	3981.5	4154.0	4297.5	4218.5	3748.8	3596.0
25°	4409.6	4379.0	4327.2	4239.7	4214.3	4297.5	4447.0	4442.7	4010.4	3846.5
27.5°	5033.0	5027.9	4906.4	4695.8	4576.9	4544.6	4616.0	4661.0	4269.5	4094.5
30°	5630.0	5643.6	5479.7	5245.3	5027.0	4900.5	4835.9	4868.2	4532.7	4362.0
32.5°	6149.8	6164.3	5985.9	5711.6	5441.5	5288.6	5152.7	5072.9	4819.8	4633.8
35°	6588.9	6603.3	6398.7	6095.5	5807.5	5669.1	5515.4	5297.1	5108.6	4935.3
37.5°	6981.3	6977.0	6702.7	6397.0	6114.1	6004.6	5923.9	5573.1	5405.8	5238.5
40°	7213.1	7231.0	6996.6	6659.4	6385.1	6305.2	6300.1	5915.4	5748.9	5586.7
42.5°	7281.1	7312.5	7142.7	6865.8	6616.9	6530.3	6663.6	6285.7	6148.1	5990.1
45°	7158.8	7189.4	7112.1	6920.1	6774.9	6718.9	6976.2	6669.6	6574.5	6418.2
47.5°	6802.1	6840.3	6859.0	6818.2	6816.5	6873.4	7256.5	7073.9	7080.7	6921.0
50°	6111.6	6176.1	6347.7	6492.1	6715.5	6995.7	7529.1	7512.1	7651.4	7513.8
52.5°	4856.3	4948.1	5539.2	5934.1	6436.0	6972.8	7828.9	8215.3	8652.7	8451.4
55°	3902.6	3902.6	4383.3	5122.2	5890.8	6821.6	7959.7	8672.3	9334.7	9287.1
57.5°	3181.5	3219.7	3526.3	4179.4	5101.8	6461.5	8040.4	8959.3	9884.2	9849.4
60°	1963.6	2046.0	2625.2	3269.8	4204.1	5820.3	7989.4	9249.8	10550.9	10578.9
62.5°	1105.8	1136.4	1394.6	2352.6	3269.0	4958.2	7599.6	9412.0	11403.6	11522.5
65°	763.5	778.8	878.2	1464.2	2265.9	3947.6	6837.8	9310.9	12258.0	12498.4
67.5°	554.6	562.2	624.2	894.3	1344.4	2862.2	5643.6	8801.3	12710.7	13112.4
70°	426.4	431.4	476.5	587.7	794.1	1766.6	4098.7	7788.1	12382.9	12862.7
72.5°	346.5	351.6	386.4	434.8	526.6	1044.6	2484.2	6324.8	10935.6	11453.7
75°	292.2	299.0	330.4	361.8	412.8	671.0	1165.2	4404.5	8223.8	8563.5
77.5°	162.2	149.5	268.4	299.8	348.2	424.7	545.3	2592.1	4605.8	4700.1
80°	101.1	104.5	213.2	241.2	267.5	214.0	249.7	997.9	1596.7	1516.9
82.5°	5.9	13.6	163.9	174.1	183.4	91.7	94.3	338.9	384.7	353.3
85°	0.0	0.0	74.7	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°
1577.2	0°	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2	1577.2
1657.8	2.5°	1598.4	1538.9	1418.3	1300.3	1204.3	1115.1	1051.4	991.1	960.6	958.9
1764.9	5°	1646.8	1522.0	1280.8	1067.6	896.0	758.4	669.3	605.6	573.3	562.2
1896.5	7.5°	1714.7	1527.1	1160.2	863.7	661.6	543.6	492.6	472.2	465.4	457.8
2045.1	10°	1800.5	1538.9	1052.3	695.6	521.5	462.0	441.6	433.1	428.0	423.0
2212.4	12.5°	1896.5	1550.0	945.3	577.5	458.6	428.0	413.6	403.4	396.6	390.7
2384.0	15°	1989.9	1556.8	834.0	495.1	426.4	401.7	386.4	375.4	366.1	359.3
2552.2	17.5°	2082.5	1566.1	729.6	445.9	400.0	375.4	360.1	346.5	338.9	331.2
2728.8	20°	2185.3	1564.4	631.0	411.1	373.7	349.1	332.9	320.2	312.5	304.1
2915.7	22.5°	2280.4	1555.9	544.4	381.3	346.5	322.7	304.9	292.2	284.5	277.7
3106.8	25°	2389.9	1549.1	472.2	354.2	321.0	297.3	277.7	265.8	257.3	251.4
3298.7	27.5°	2495.3	1538.9	419.6	329.5	296.4	273.5	254.8	241.2	233.6	229.3
3496.6	30°	2598.9	1536.4	400.0	305.7	274.3	251.4	232.7	220.0	214.0	212.3
3714.0	32.5°	2723.7	1543.2	408.5	297.3	253.9	231.0	213.2	203.8	197.9	197.9
3956.1	35°	2857.1	1541.5	421.3	304.9	240.4	210.6	197.0	191.1	185.1	185.1
4224.4	37.5°	3024.4	1544.0	431.4	317.6	235.3	193.6	186.0	178.4	175.0	175.0
4518.3	40°	3274.1	1628.1	426.4	328.7	233.6	181.8	166.5	163.9	161.4	161.4
4850.4	42.5°	3579.8	1810.7	433.1	329.5	232.7	173.3	152.9	158.0	152.0	151.2
5224.9	45°	3914.4	2010.3	476.5	311.7	231.9	169.0	146.1	152.0	142.7	142.7
5658.9	47.5°	4246.5	2208.2	520.6	286.2	229.3	168.2	140.1	136.7	134.2	135.0
6224.6	50°	4704.3	2369.6	537.6	251.4	223.4	166.5	129.1	129.9	128.2	129.9
7022.1	52.5°	5202.8	2403.5	517.2	212.3	206.4	161.4	121.5	124.8	124.0	125.7
7583.4	55°	5513.7	2367.0	427.2	176.7	180.1	141.0	113.8	120.6	120.6	120.6
8132.1	57.5°	5834.7	2211.6	303.2	143.5	149.5	115.5	107.0	116.4	115.5	114.7
8792.9	60°	6065.7	1960.2	199.6	118.1	118.9	95.1	99.4	109.6	108.7	104.5
9474.0	62.5°	6238.1	1682.5	128.2	100.2	90.9	85.8	90.9	99.4	96.0	86.6
10051.5	65°	6218.6	1297.7	98.5	85.8	74.7	74.7	79.0	86.6	76.4	61.1
10161.9	67.5°	5856.0	878.2	81.5	72.2	62.8	62.0	65.4	72.2	65.4	51.8
9596.3	70°	5207.9	574.1	65.4	56.1	50.1	45.9	52.7	62.0	55.2	41.6
8169.5	72.5°	4227.0	349.9	49.3	40.8	36.5	29.7	41.6	51.0	44.2	30.6
5681.0	75°	2734.8	178.4	34.0	26.3	19.5	17.8	30.6	38.2	30.6	18.7
2520.7	77.5°	1046.3	74.7	18.7	11.9	10.2	8.5	17.0	22.9	12.7	4.2
488.4	80°	201.3	31.4	9.3	5.9	5.1	3.4	2.5	1.7	0.0	0.0
86.6	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°
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1577.2
957.2
560.5
456.1
421.3
389.0
358.4
330.4
303.2
276.9
250.5
229.3
211.5
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