

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: P955511

Luminaire Tested: **GALN-SB8B-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955511  
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-SB8B-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

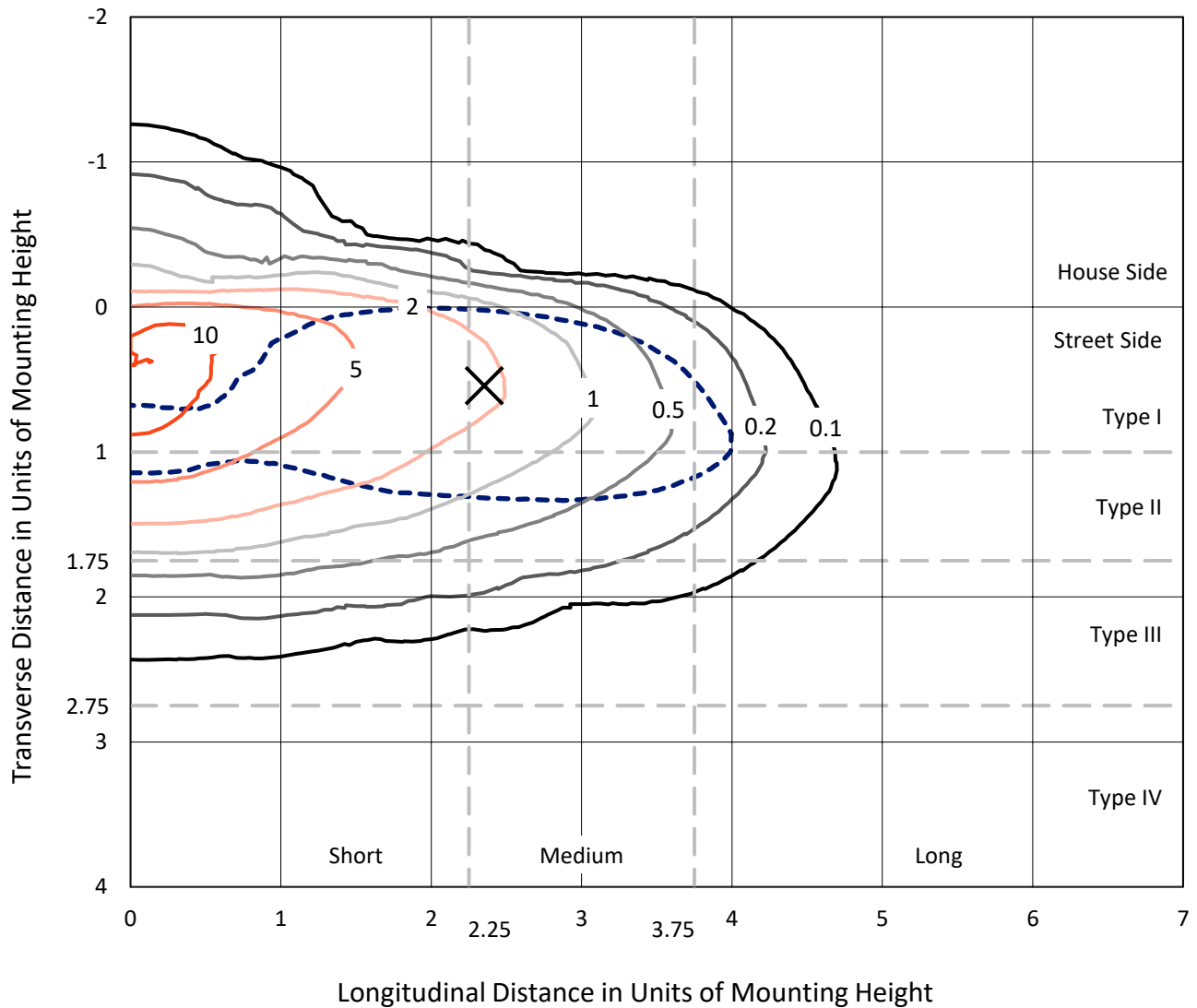
Lumens per Lamp: N/A  
Luminaire Lumens: 27937 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

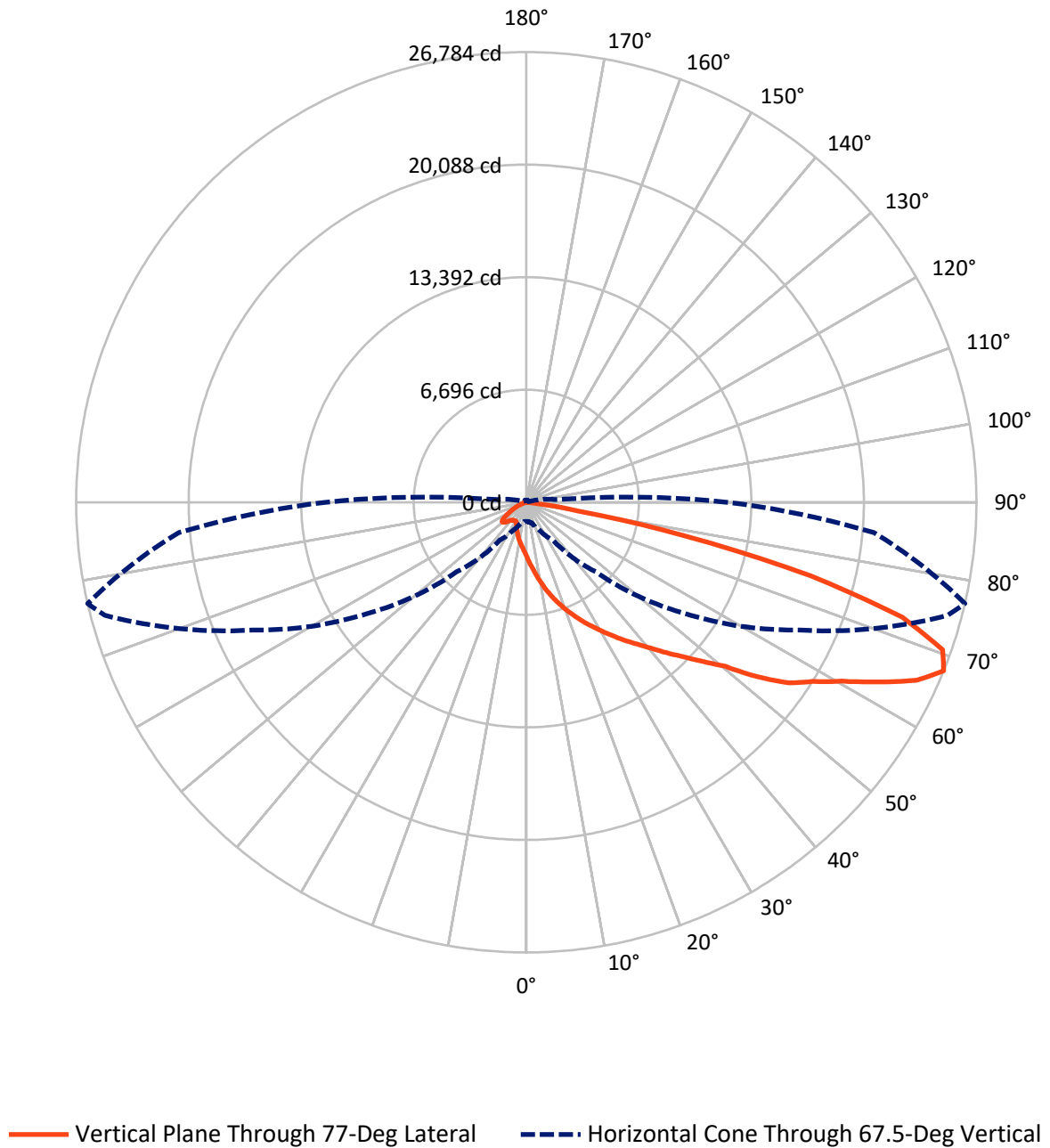
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	2055.3	0.0	2055.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	25881.7	0.0	25881.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	27937.0	0.0	27937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.8	1.2
10°-20°	1151.5	4.1
20°-30°	2222.0	8.0
30°-40°	3857.5	13.8
40°-50°	5600.9	20.0
50°-60°	6431.9	23.0
60°-70°	5584.1	20.0
70°-80°	2630.2	9.4
80°-90°	130.1	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°	27937.0	100.0
0°-180°	27937.0	100.0

**Coefficient of Utilization**



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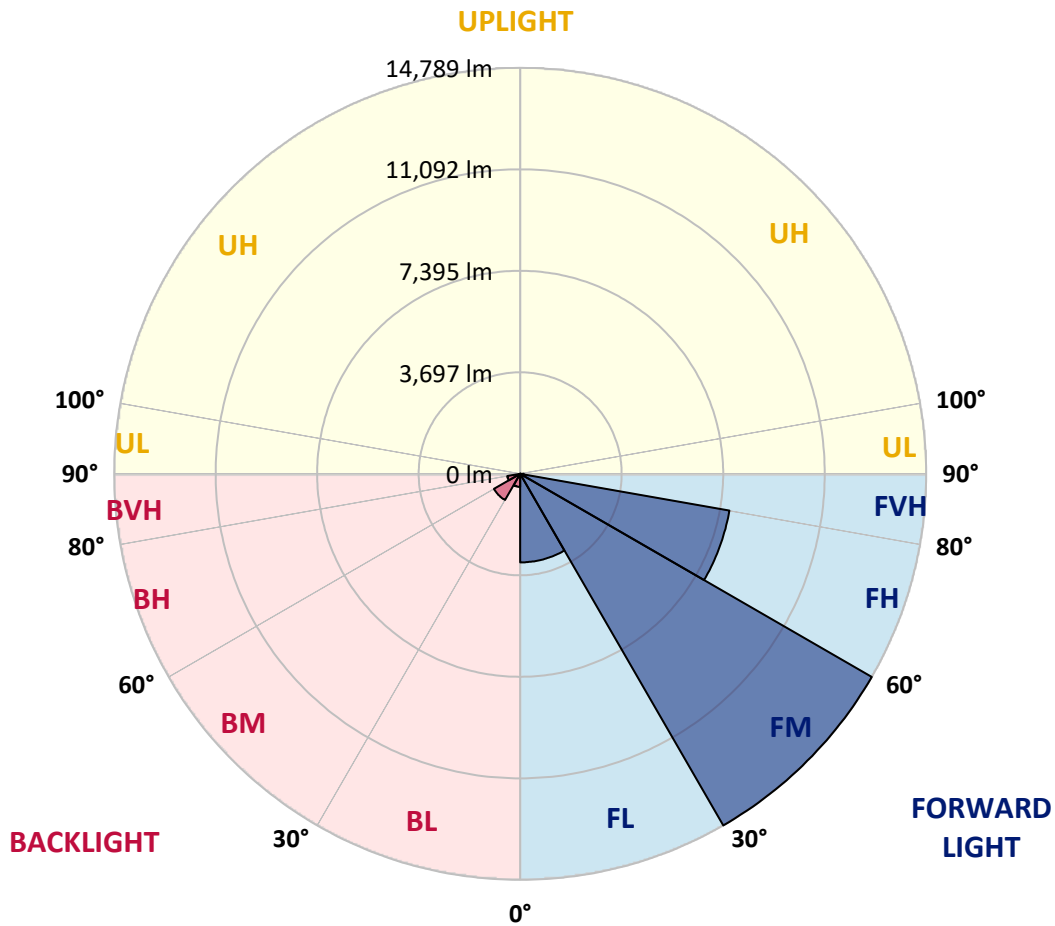
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3226.4	11.5			
FM (30°-60°)	14789.1	52.9			
FH (60°-80°)	7738.5	27.7			G4/12000
FVH (80°-90°)	127.7	0.5			G2/225
BL (0°-30°)	475.8	1.7	B1/500		
BM (30°-60°)	1101.3	3.9	B2/2500		
BH (60°-80°)	475.8	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5
2.5°	4460.2	4488.0	4448.1	4371.7	4257.2	4182.6	4000.5	3828.7	3637.9	3577.2
5°	5436.9	5461.2	5416.1	5332.8	5180.2	5034.4	4795.0	4435.9	4062.9	3943.2
7.5°	6160.3	6174.2	6156.8	6080.5	5934.8	5770.0	5502.8	5077.8	4524.4	4392.5
10°	6680.8	6725.9	6720.7	6691.2	6594.0	6460.4	6175.9	5691.9	5041.4	4871.4
12.5°	7026.0	7076.3	7105.8	7171.7	7166.5	7081.5	6831.7	6319.9	5556.6	5357.1
15°	7126.6	7180.4	7293.2	7445.8	7581.1	7624.5	7449.3	6935.8	6123.9	5868.9
17.5°	7069.4	7152.6	7287.9	7529.1	7825.7	8021.8	8002.7	7530.8	6639.1	6347.7
20°	7196.0	7275.8	7381.6	7584.6	7929.8	8285.5	8427.7	8099.8	7150.9	6845.6
22.5°	7896.9	7883.0	7893.4	7926.4	8132.8	8485.0	8778.2	8616.8	7657.5	7345.2
25°	9007.1	8944.7	8838.9	8660.2	8608.1	8778.2	9083.5	9074.8	8191.8	7857.0
27.5°	10280.5	10270.1	10022.0	9591.8	9348.9	9283.0	9428.7	9520.7	8720.9	8363.5
30°	11500.1	11527.8	11193.0	10714.2	10268.4	10009.9	9878.0	9943.9	9258.7	8910.0
32.5°	12561.8	12591.3	12227.0	11666.6	11114.9	10802.7	10525.1	10362.0	9845.1	9465.1
35°	13458.7	13488.2	13070.1	12450.7	11862.6	11579.9	11265.9	10820.0	10434.9	10081.0
37.5°	14260.2	14251.5	13691.1	13066.6	12488.9	12265.1	12100.3	11383.8	11042.1	10700.3
40°	14733.8	14770.2	14291.4	13602.7	13042.3	12879.2	12868.8	12083.0	11742.9	11411.6
42.5°	14872.5	14936.7	14589.8	14024.2	13515.9	13339.0	13611.3	12839.3	12558.3	12235.6
45°	14622.7	14685.2	14527.3	14135.3	13838.6	13724.1	14249.7	13623.5	13429.2	13110.0
47.5°	13894.1	13972.2	14010.3	13927.1	13923.6	14039.8	14822.2	14449.3	14463.1	14137.0
50°	12483.7	12615.6	12966.0	13260.9	13717.2	14289.7	15379.1	15344.4	15628.9	15347.9
52.5°	9919.7	10107.0	11314.4	12121.1	13146.4	14242.8	15991.5	16780.8	17674.3	17263.1
55°	7971.5	7971.5	8953.4	10462.7	12032.7	13934.0	16258.7	17714.2	19067.3	18970.2
57.5°	6498.6	6576.7	7202.9	8537.0	10421.0	13198.5	16423.5	18300.5	20189.7	20118.6
60°	4010.9	4179.2	5362.3	6679.0	8587.3	11888.7	16319.4	18893.8	21551.6	21608.8
62.5°	2258.7	2321.2	2848.6	4805.4	6677.3	10127.8	15523.1	19225.2	23293.3	23536.2
65°	1559.6	1590.8	1793.8	2990.8	4628.5	8063.4	13967.0	19018.7	25038.5	25529.5
67.5°	1132.8	1148.4	1275.1	1826.8	2746.2	5846.3	11527.8	17977.9	25963.2	26783.8
70°	870.9	881.3	973.2	1200.5	1622.0	3608.4	8372.2	15908.2	25293.6	26273.7
72.5°	707.8	718.2	789.3	888.2	1075.6	2133.8	5074.3	12919.1	22337.4	23395.7
75°	596.8	610.7	674.8	739.0	843.1	1370.5	2380.2	8996.7	16798.2	17492.1
77.5°	331.3	305.3	548.2	612.4	711.3	867.4	1113.7	5294.6	9407.9	9600.5
80°	206.4	213.4	435.4	492.7	546.5	437.2	510.0	2038.4	3261.4	3098.4
82.5°	12.1	27.8	334.8	355.6	374.7	187.4	192.6	692.2	785.9	721.7
85°	0.0	0.0	152.7	123.2	130.1	53.8	55.5	161.3	105.8	114.5
87.5°	0.0	0.0	0.0	3.5	0.0	5.2	10.4	13.9	5.2	6.9
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°
3221.5	0°	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5
3386.4	2.5°	3264.9	3143.5	2897.1	2656.0	2460.0	2277.8	2147.7	2024.5	1962.1	1958.6
3604.9	5°	3363.8	3108.8	2616.1	2180.7	1830.2	1549.2	1367.0	1236.9	1171.0	1148.4
3873.8	7.5°	3502.6	3119.2	2369.8	1764.3	1351.4	1110.3	1006.2	964.6	950.7	935.1
4177.4	10°	3677.8	3143.5	2149.4	1420.8	1065.2	943.7	902.1	884.8	874.3	863.9
4519.2	12.5°	3873.8	3166.0	1930.8	1179.7	936.8	874.3	844.9	824.0	810.2	798.0
4869.6	15°	4064.7	3179.9	1703.6	1011.4	870.9	820.6	789.3	766.8	747.7	733.8
5213.1	17.5°	4253.8	3199.0	1490.2	910.8	817.1	766.8	735.6	707.8	692.2	676.6
5574.0	20°	4463.7	3195.5	1289.0	839.6	763.3	713.0	680.0	654.0	638.4	621.1
5955.6	22.5°	4658.0	3178.2	1112.0	778.9	707.8	659.2	622.8	596.8	581.2	567.3
6345.9	25°	4881.8	3164.3	964.6	723.4	655.8	607.2	567.3	543.0	525.6	513.5
6738.0	27.5°	5096.9	3143.5	857.0	673.1	605.4	558.6	520.4	492.7	477.1	468.4
7142.2	30°	5308.5	3138.3	817.1	624.5	560.3	513.5	475.3	449.3	437.2	433.7
7586.3	32.5°	5563.5	3152.2	834.4	607.2	518.7	471.9	435.4	416.4	404.2	404.2
8080.8	35°	5835.9	3148.7	860.5	622.8	491.0	430.2	402.5	390.3	378.2	378.2
8629.0	37.5°	6177.7	3153.9	881.3	648.8	480.5	395.5	379.9	364.3	357.4	357.4
9229.2	40°	6687.7	3325.6	870.9	671.4	477.1	371.2	340.0	334.8	329.6	329.6
9907.5	42.5°	7312.2	3698.6	884.8	673.1	475.3	353.9	312.3	322.7	310.5	308.8
10672.6	45°	7995.8	4106.3	973.2	636.7	473.6	345.2	298.4	310.5	291.4	291.4
11559.1	47.5°	8674.1	4510.5	1063.4	584.6	468.4	343.5	286.2	279.3	274.1	275.8
12714.4	50°	9609.1	4840.1	1098.1	513.5	456.3	340.0	263.7	265.4	262.0	265.4
14343.4	52.5°	10627.5	4909.5	1056.5	433.7	421.6	329.6	248.1	255.0	253.3	256.8
15490.1	55°	11262.4	4834.9	872.6	360.8	367.8	288.0	232.5	246.3	246.3	246.3
16610.8	57.5°	11918.2	4517.5	619.3	293.2	305.3	235.9	218.6	237.7	235.9	234.2
17960.5	60°	12390.0	4003.9	407.7	241.1	242.9	194.3	203.0	223.8	222.1	213.4
19351.8	62.5°	12742.2	3436.7	262.0	204.7	185.6	175.2	185.6	203.0	196.0	177.0
20531.5	65°	12702.3	2650.8	201.2	175.2	152.7	152.7	161.3	177.0	156.1	124.9
20757.0	67.5°	11961.5	1793.8	166.5	147.5	128.4	126.6	133.6	147.5	133.6	105.8
19601.6	70°	10637.9	1172.7	133.6	114.5	102.4	93.7	107.6	126.6	112.8	85.0
16687.2	72.5°	8634.2	714.7	100.6	83.3	74.6	60.7	85.0	104.1	90.2	62.5
11604.2	75°	5586.1	364.3	69.4	53.8	39.9	36.4	62.5	78.1	62.5	38.2
5148.9	77.5°	2137.3	152.7	38.2	24.3	20.8	17.3	34.7	46.8	26.0	8.7
997.5	80°	411.2	64.2	19.1	12.1	10.4	6.9	5.2	3.5	0.0	0.0
177.0	82.5°	71.1	20.8	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
34.7	85°	24.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	8.7	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

<u>180°</u>
3221.5
1955.1
1145.0
931.6
860.5
794.5
732.1
674.8
619.3
565.5
511.8
468.4
432.0
404.2
378.2
357.4
329.6
307.1
291.4
275.8
265.4
256.8
246.3
234.2
213.4
173.5
121.4
102.4
81.5
59.0
33.0
6.9
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