

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: P955343

Luminaire Tested: **GALN-SB8B-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955343  
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-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

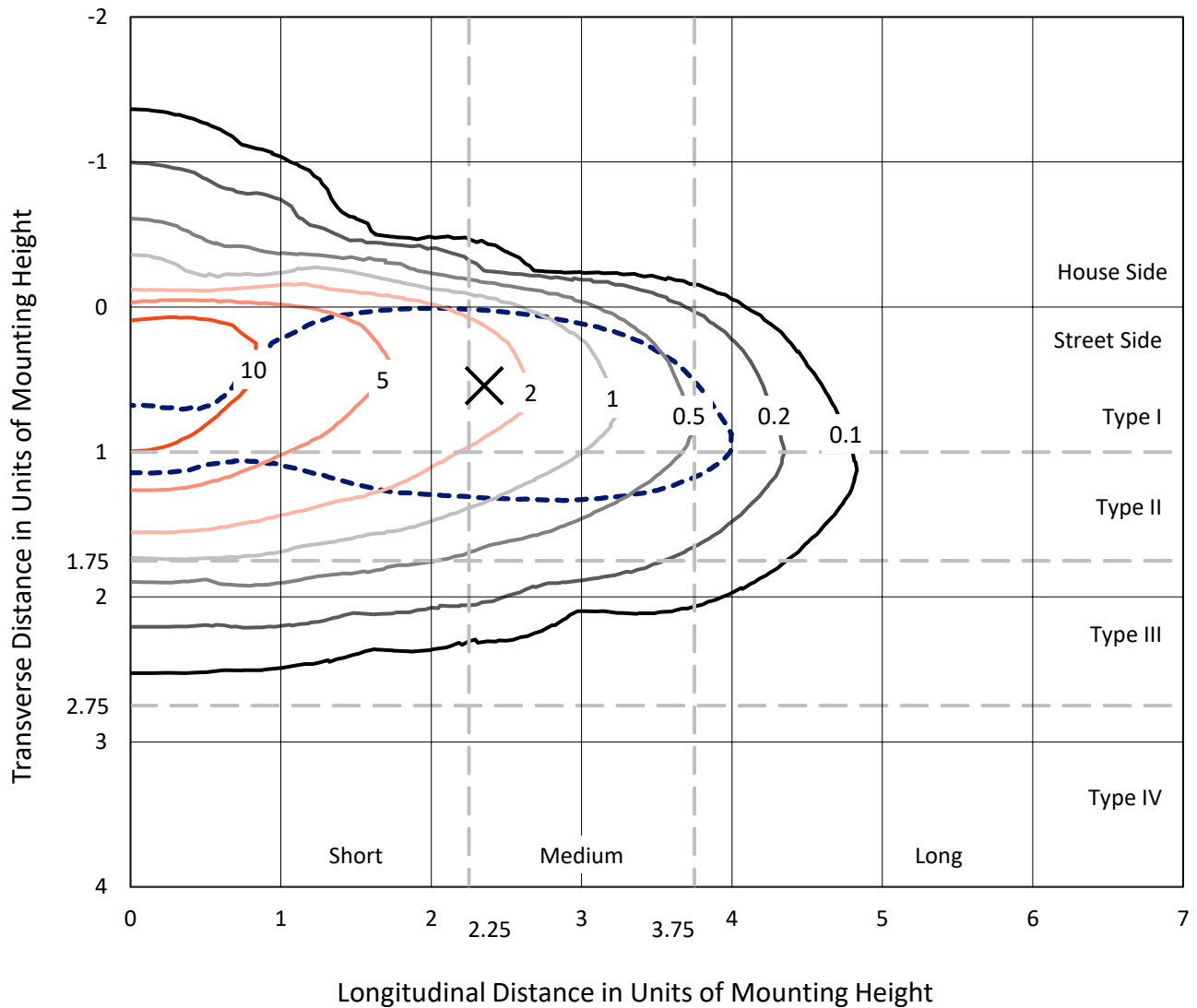
Lumens per Lamp: N/A  
Luminaire Lumens: 33524 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

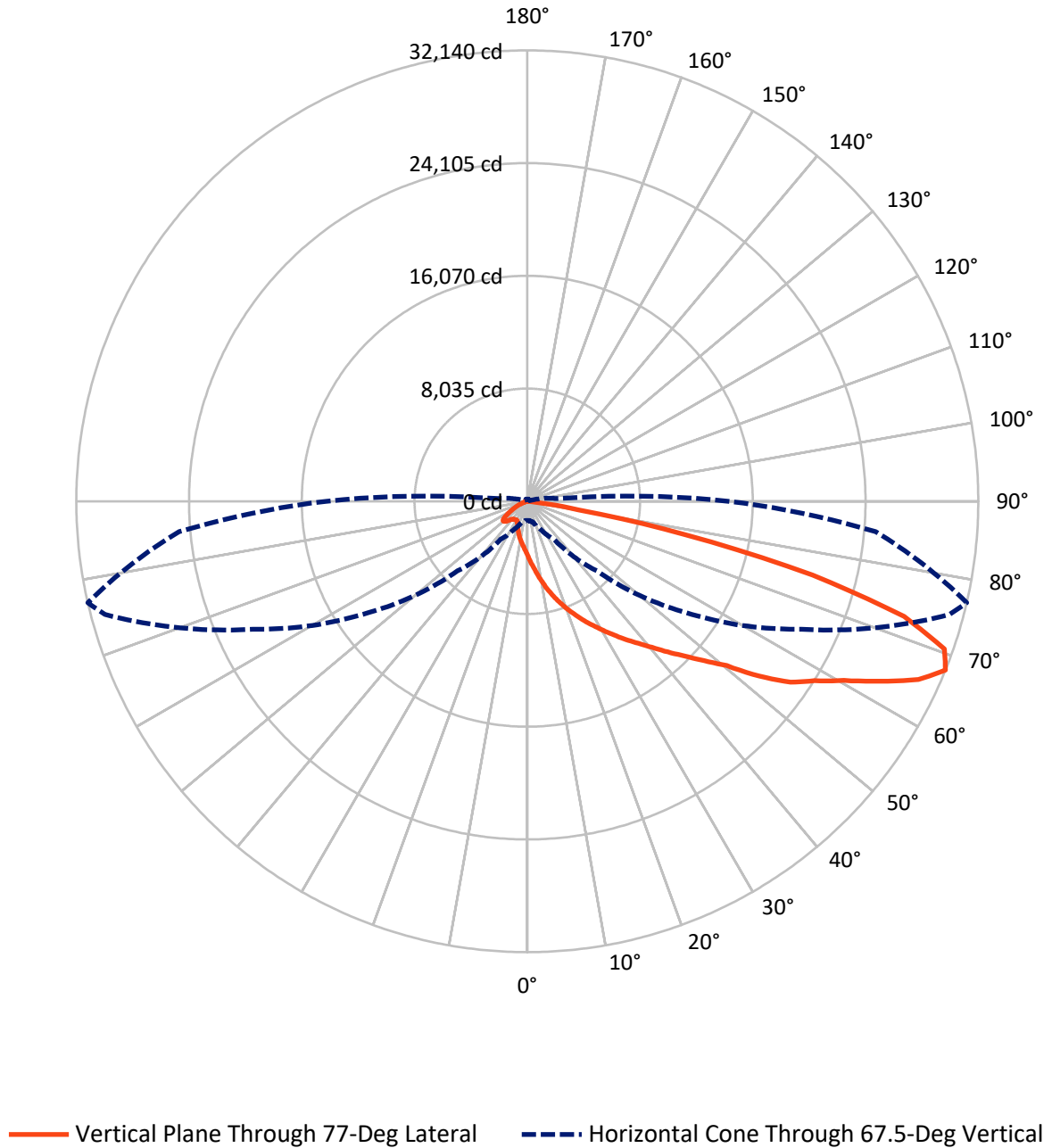
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	2466.4	0.0	2466.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	31057.6	0.0	31057.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	33524.0	0.0	33524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.6	1.2
10°-20°	1381.7	4.1
20°-30°	2666.4	8.0
30°-40°	4629.0	13.8
40°-50°	6721.0	20.0
50°-60°	7718.2	23.0
60°-70°	6700.9	20.0
70°-80°	3156.2	9.4
80°-90°	156.1	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°	33524.0	100.0
0°-180°	33524.0	100.0

**Coefficient of Utilization**



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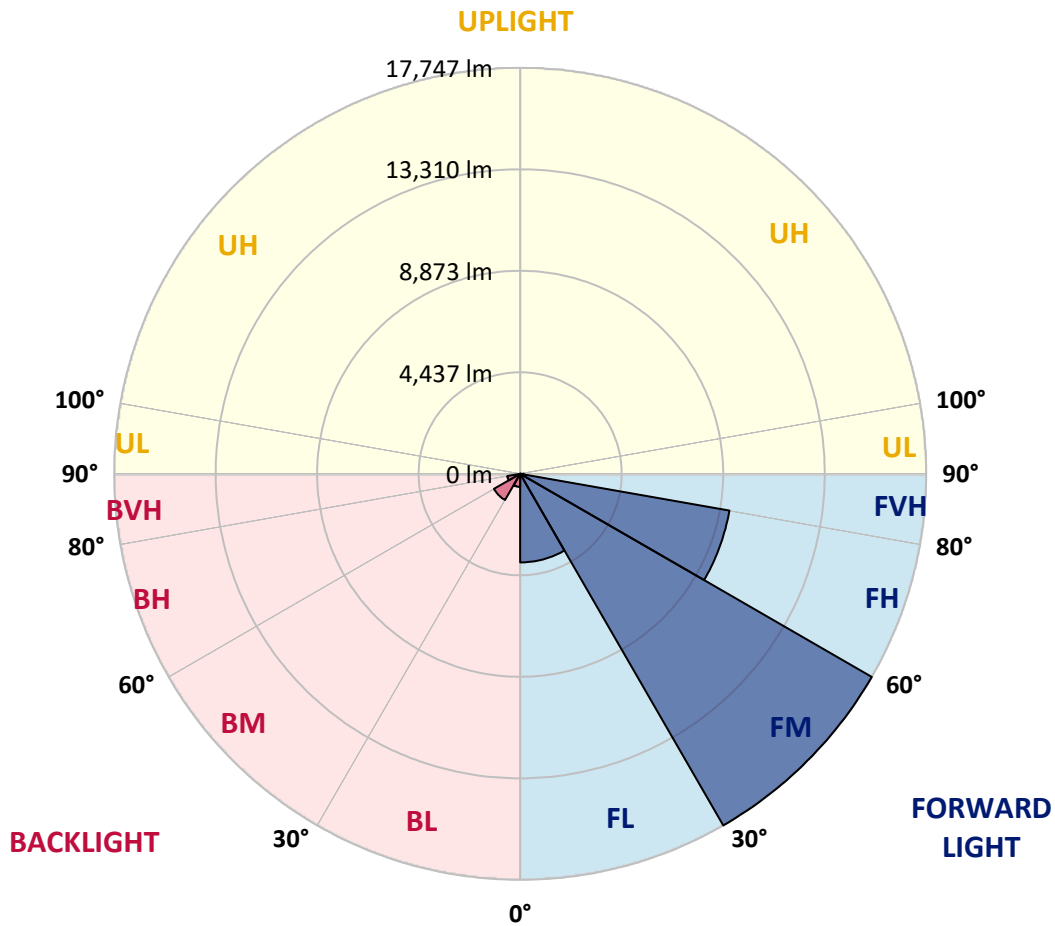
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3871.7	11.5			
FM (30°-60°)	17746.7	52.9			
FH (60°-80°)	9286.1	27.7			G4/12000
FVH (80°-90°)	153.2	0.5			G2/225
BL (0°-30°)	571.0	1.7	B2/1000		
BM (30°-60°)	1321.5	3.9	B2/2500		
BH (60°-80°)	571.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8
2.5°	5352.2	5385.5	5337.6	5246.0	5108.6	5019.1	4800.5	4594.4	4365.4	4292.6
5°	6524.2	6553.3	6499.2	6399.3	6216.1	6041.2	5754.0	5323.0	4875.5	4731.8
7.5°	7392.3	7408.9	7388.1	7296.5	7121.7	6923.9	6603.3	6093.3	5429.2	5271.0
10°	8016.8	8070.9	8064.7	8029.3	7912.7	7752.4	7411.0	6830.2	6049.6	5845.6
12.5°	8431.1	8491.5	8526.8	8606.0	8599.7	8497.7	8197.9	7583.8	6667.8	6428.4
15°	8551.8	8616.4	8751.7	8934.9	9097.2	9149.3	8939.0	8322.8	7348.6	7042.6
17.5°	8483.1	8583.1	8745.4	9034.8	9390.8	9626.0	9603.1	9036.9	7966.9	7617.1
20°	8635.1	8730.9	8857.8	9101.4	9515.7	9942.4	10113.1	9719.7	8581.0	8214.6
22.5°	9476.1	9459.5	9472.0	9511.5	9759.2	10181.8	10533.7	10340.1	9188.8	8814.1
25°	10808.4	10733.5	10606.5	10392.1	10329.6	10533.7	10900.0	10889.6	9830.0	9428.2
27.5°	12336.5	12324.0	12026.3	11510.0	11218.6	11139.4	11314.3	11424.6	10465.0	10036.1
30°	13799.9	13833.2	13431.5	12856.9	12321.9	12011.7	11853.5	11932.6	11110.3	10691.9
32.5°	15074.0	15109.3	14672.2	13999.8	13337.8	12963.1	12630.0	12434.3	11813.9	11358.0
35°	16150.2	16185.6	15683.9	14940.7	14235.0	13895.7	13518.9	12983.9	12521.7	12097.0
37.5°	17112.0	17101.6	16429.2	15679.7	14986.5	14718.0	14520.2	13660.4	13250.3	12840.2
40°	17680.3	17724.0	17149.5	16323.0	15650.6	15454.9	15442.4	14499.4	14091.4	13693.8
42.5°	17846.8	17923.9	17507.5	16828.9	16218.9	16006.6	16333.4	15407.0	15069.8	14682.6
45°	17547.1	17622.0	17432.6	16962.1	16606.1	16468.7	17099.5	16348.0	16114.8	15731.8
47.5°	16672.7	16766.4	16812.2	16712.3	16708.1	16847.6	17786.5	17338.9	17355.6	16964.2
50°	14980.3	15138.5	15559.0	15912.9	16460.4	17147.4	18454.7	18413.1	18754.5	18417.2
52.5°	11903.4	12128.3	13577.2	14545.2	15775.5	17091.2	19189.6	20136.8	21208.9	20715.5
55°	9565.6	9565.6	10743.9	12555.0	14439.0	16720.6	19510.2	21256.8	22880.5	22763.9
57.5°	7798.2	7891.9	8643.4	10244.3	12505.1	15838.0	19707.9	21960.4	24227.4	24142.1
60°	4813.0	5014.9	6434.7	8014.7	10304.7	14266.2	19583.0	22672.3	25861.6	25930.3
62.5°	2710.4	2785.4	3418.2	5766.4	8012.7	12153.3	18627.5	23070.0	27951.7	28243.1
65°	1871.5	1909.0	2152.5	3588.9	5554.1	9676.0	16760.2	22822.2	30045.9	30635.0
67.5°	1359.4	1378.1	1530.1	2192.1	3295.4	7015.5	13833.2	21573.2	31155.5	32140.1
70°	1045.0	1057.5	1167.9	1440.6	1946.4	4330.0	10046.5	19089.6	30351.9	31528.1
72.5°	849.4	861.8	947.2	1065.9	1290.7	2560.6	6089.1	15502.8	26804.6	28074.5
75°	716.1	732.8	809.8	886.8	1011.7	1644.6	2856.2	10796.0	20157.6	20990.3
77.5°	397.6	366.4	657.8	734.9	853.5	1040.9	1336.5	6353.5	11289.3	11520.4
80°	247.7	256.1	522.5	591.2	655.8	524.6	612.0	2446.1	3913.7	3718.0
82.5°	14.6	33.3	401.8	426.8	449.7	224.8	231.1	830.6	943.0	866.0
85°	0.0	0.0	183.2	147.8	156.1	64.5	66.6	193.6	127.0	137.4
87.5°	0.0	0.0	0.0	4.2	0.0	6.2	12.5	16.7	6.2	8.3
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°
3865.8	0°	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8
4063.6	2.5°	3917.9	3772.1	3476.5	3187.2	2951.9	2733.3	2577.2	2429.4	2354.5	2350.3
4325.9	5°	4036.5	3730.5	3139.3	2616.8	2196.2	1859.0	1640.4	1484.3	1405.2	1378.1
4648.5	7.5°	4203.1	3743.0	2843.7	2117.1	1621.7	1332.3	1207.4	1157.5	1140.8	1122.1
5012.9	10°	4413.3	3772.1	2579.3	1705.0	1278.2	1132.5	1082.5	1061.7	1049.2	1036.7
5423.0	12.5°	4648.5	3799.2	2317.0	1415.6	1124.1	1049.2	1013.8	988.8	972.2	957.6
5843.5	15°	4877.5	3815.8	2044.3	1213.7	1045.0	984.7	947.2	920.1	897.2	880.6
6255.7	17.5°	5104.5	3838.7	1788.2	1092.9	980.5	920.1	882.7	849.4	830.6	811.9
6688.7	20°	5356.3	3834.6	1546.7	1007.6	916.0	855.6	816.0	784.8	766.1	745.3
7146.6	22.5°	5589.5	3813.8	1334.4	934.7	849.4	791.1	747.3	716.1	697.4	680.7
7615.0	25°	5858.0	3797.1	1157.5	868.1	786.9	728.6	680.7	651.6	630.8	616.2
8085.5	27.5°	6116.2	3772.1	1028.4	807.7	726.5	670.3	624.5	591.2	572.5	562.1
8570.6	30°	6370.2	3765.9	980.5	749.4	672.4	616.2	570.4	539.2	524.6	520.4
9103.5	32.5°	6676.2	3782.5	1001.3	728.6	622.4	566.2	522.5	499.6	485.0	485.0
9696.8	35°	7003.0	3778.4	1032.5	747.3	589.1	516.3	483.0	468.4	453.8	453.8
10354.6	37.5°	7413.1	3784.6	1057.5	778.6	576.6	474.6	455.9	437.2	428.8	428.8
11074.9	40°	8025.1	3990.7	1045.0	805.6	572.5	445.5	408.0	401.8	395.5	395.5
11888.9	42.5°	8774.6	4438.3	1061.7	807.7	570.4	424.7	374.7	387.2	372.6	370.6
12806.9	45°	9594.8	4927.5	1167.9	764.0	568.3	414.3	358.1	372.6	349.7	349.7
13870.7	47.5°	10408.8	5412.6	1276.1	701.5	562.1	412.2	343.5	335.2	328.9	331.0
15257.1	50°	11530.8	5808.1	1317.7	616.2	547.5	408.0	316.4	318.5	314.3	318.5
17211.9	52.5°	12752.8	5891.4	1267.8	520.4	505.9	395.5	297.7	306.0	303.9	308.1
18587.9	55°	13514.7	5801.8	1047.1	433.0	441.3	345.6	279.0	295.6	295.6	295.6
19932.8	57.5°	14301.6	5420.9	743.2	351.8	366.4	283.1	262.3	285.2	283.1	281.0
21552.4	60°	14867.9	4804.7	489.2	289.4	291.4	233.2	243.6	268.5	266.5	256.1
23221.9	62.5°	15290.5	4123.9	314.3	245.6	222.7	210.3	222.7	243.6	235.2	212.3
24637.5	65°	15242.6	3180.9	241.5	210.3	183.2	183.2	193.6	212.3	187.4	149.9
24908.1	67.5°	14353.7	2152.5	199.8	176.9	154.0	152.0	160.3	176.9	160.3	127.0
23521.7	70°	12765.3	1407.3	160.3	137.4	122.8	112.4	129.1	152.0	135.3	102.0
20024.4	72.5°	10360.9	857.7	120.7	99.9	89.5	72.9	102.0	124.9	108.3	74.9
13924.8	75°	6703.2	437.2	83.3	64.5	47.9	43.7	74.9	93.7	74.9	45.8
6178.6	77.5°	2564.7	183.2	45.8	29.1	25.0	20.8	41.6	56.2	31.2	10.4
1197.0	80°	493.4	77.0	22.9	14.6	12.5	8.3	6.2	4.2	0.0	0.0
212.3	82.5°	85.4	25.0	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
41.6	85°	29.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	10.4	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

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<u>180°</u>
3865.8
2346.1
1374.0
1117.9
1032.5
953.4
878.5
809.8
743.2
678.7
614.1
562.1
518.4
485.0
453.8
428.8
395.5
368.5
349.7
331.0
318.5
308.1
295.6
281.0
256.1
208.2
145.7
122.8
97.8
70.8
39.6
8.3
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