

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: P955427

Luminaire Tested: **GALN-SB8B-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955427  
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-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

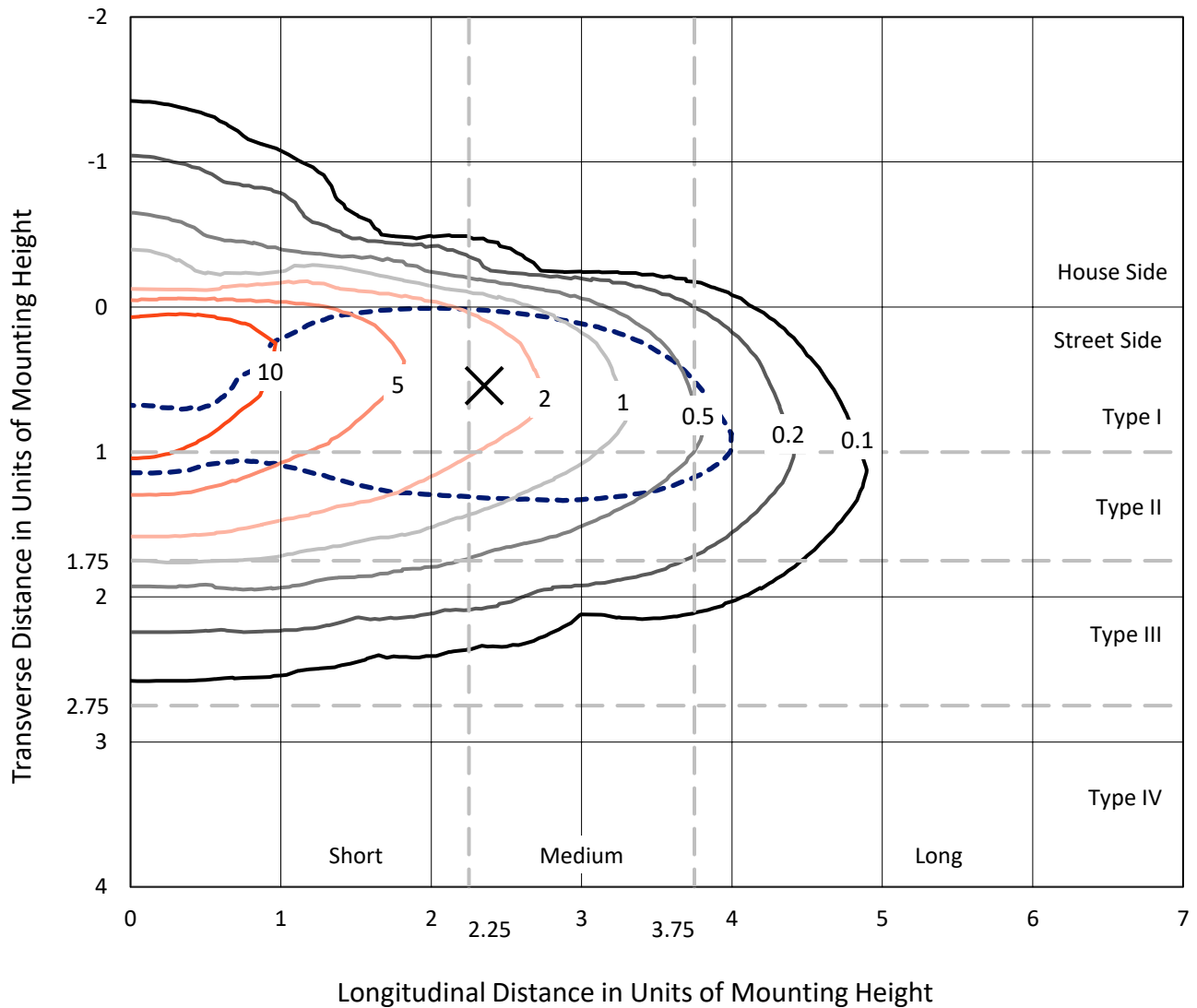
Lumens per Lamp: N/A  
Luminaire Lumens: 36876 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

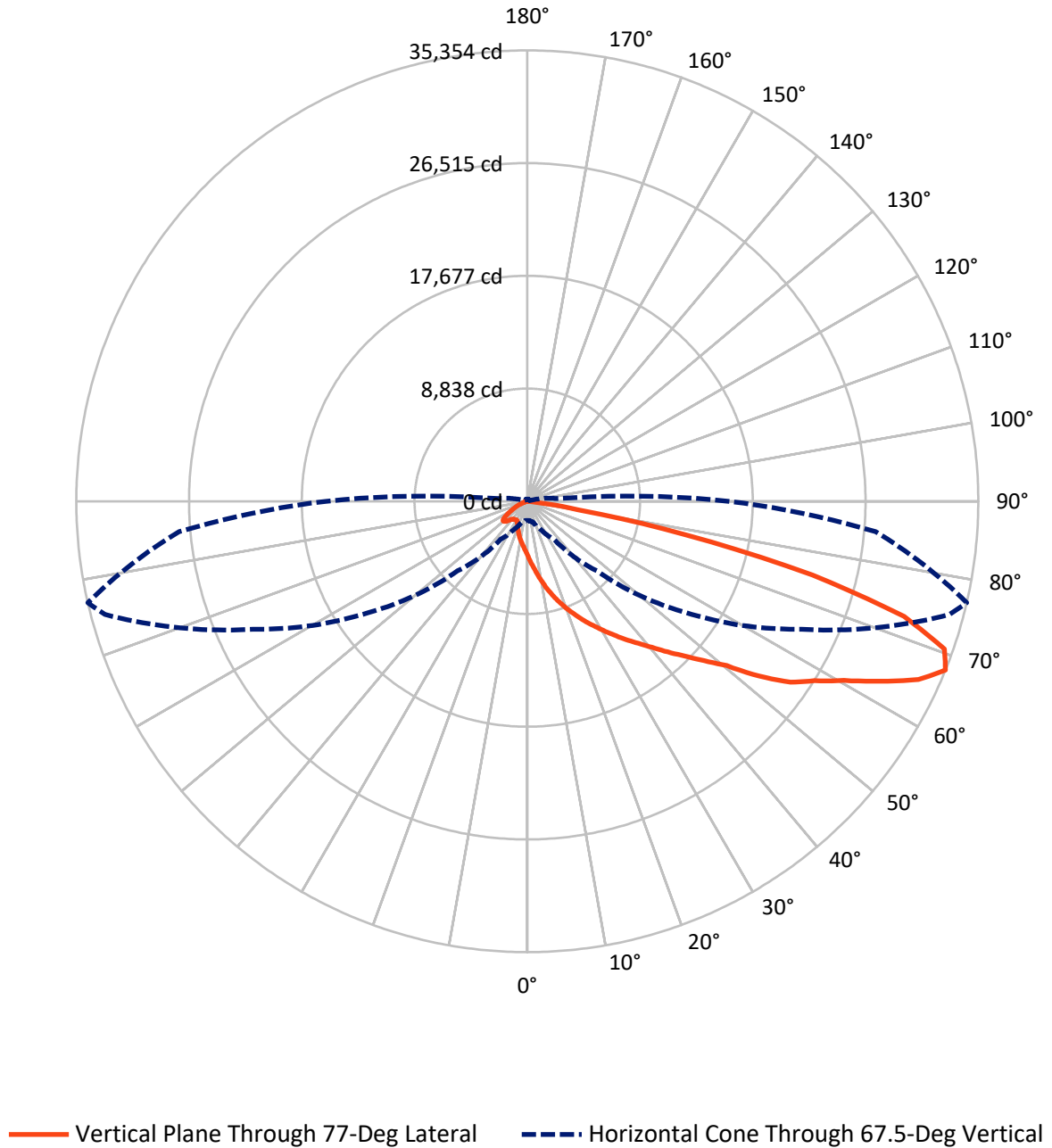
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	2713.0	0.0	2713.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	34163.0	0.0	34163.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	36876.0	0.0	36876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.0	1.2
10°-20°	1519.9	4.1
20°-30°	2933.0	8.0
30°-40°	5091.8	13.8
40°-50°	7393.0	20.0
50°-60°	8490.0	23.0
60°-70°	7370.9	20.0
70°-80°	3471.8	9.4
80°-90°	171.7	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°	36876.0	100.0
0°-180°	36876.0	100.0

**Coefficient of Utilization**



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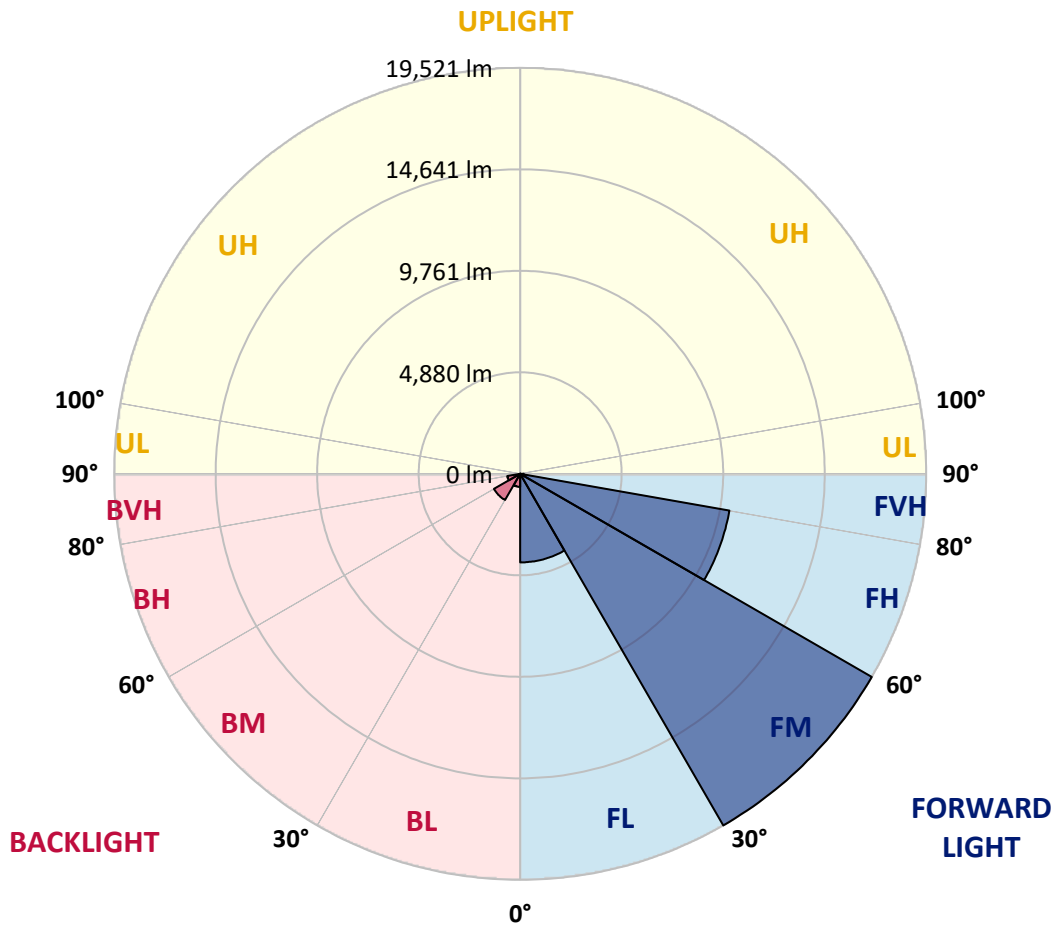
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4258.8	11.5			
FM (30°-60°)	19521.2	52.9			
FH (60°-80°)	10214.5	27.7			G4/12000
FVH (80°-90°)	168.5	0.5			G2/225
BL (0°-30°)	628.1	1.7	B2/1000		
BM (30°-60°)	1453.6	3.9	B2/2500		
BH (60°-80°)	628.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3
2.5°	5887.3	5924.0	5871.3	5770.5	5619.4	5520.9	5280.5	5053.8	4801.9	4721.8
5°	7176.5	7208.6	7149.1	7039.2	6837.6	6645.3	6329.3	5855.3	5362.9	5204.9
7.5°	8131.4	8149.8	8126.9	8026.1	7833.7	7616.2	7263.6	6702.5	5972.1	5798.0
10°	8818.4	8877.9	8871.1	8832.1	8703.9	8527.6	8152.0	7513.2	6654.5	6430.0
12.5°	9274.1	9340.5	9379.4	9466.4	9459.6	9347.4	9017.6	8342.1	7334.6	7071.2
15°	9406.9	9477.9	9626.7	9828.3	10006.9	10064.1	9832.8	9155.0	8083.3	7746.7
17.5°	9331.3	9441.3	9619.9	9938.2	10329.7	10588.5	10563.3	9940.5	8763.4	8378.7
20°	9498.5	9603.8	9743.5	10011.4	10467.1	10936.6	11124.3	10691.5	9439.0	9035.9
22.5°	10423.6	10405.3	10419.0	10462.6	10735.1	11199.9	11586.9	11373.9	10107.6	9695.4
25°	11889.2	11806.7	11667.0	11431.2	11362.5	11586.9	11989.9	11978.5	10812.9	10371.0
27.5°	13569.9	13556.2	13228.8	12660.9	12340.3	12253.3	12445.6	12567.0	11511.3	11039.6
30°	15179.7	15216.4	14774.4	14142.4	13553.9	13212.7	13038.7	13125.7	12221.2	11760.9
32.5°	16581.2	16620.1	16139.2	15399.6	14671.4	14259.2	13892.8	13677.6	12995.2	12493.7
35°	17765.0	17804.0	17252.1	16434.6	15658.3	15285.1	14870.6	14282.1	13773.8	13306.6
37.5°	18823.0	18811.5	18071.9	17247.5	16485.0	16189.6	15972.1	15026.3	14575.2	14124.1
40°	19448.1	19496.2	18864.2	17955.1	17215.5	17000.2	16986.5	15949.2	15500.3	15063.0
42.5°	19631.3	19716.0	19258.1	18511.6	17840.6	17607.0	17966.6	16947.6	16576.6	16150.7
45°	19301.6	19384.0	19175.6	18658.1	18266.5	18115.4	18809.2	17982.6	17726.1	17304.8
47.5°	18339.8	18442.9	18493.2	18383.3	18378.7	18532.2	19564.9	19072.6	19090.9	18660.4
50°	16478.1	16652.2	17114.7	17504.0	18106.2	18861.9	20300.0	20254.2	20629.7	20258.7
52.5°	13093.6	13341.0	14934.7	15999.5	17352.9	18800.1	21108.3	22150.2	23329.5	22786.8
55°	10522.1	10522.1	11818.2	13810.4	15882.7	18392.5	21460.9	23382.2	25168.3	25040.1
57.5°	8578.0	8681.0	9507.7	11268.6	13755.4	17421.6	21678.5	24156.2	26649.9	26556.0
60°	5294.2	5516.4	7078.1	8816.1	11335.0	15692.7	21541.1	24939.3	28447.4	28523.0
62.5°	2981.5	3063.9	3760.0	6343.0	8813.8	13368.4	20490.0	25376.7	30746.5	31067.1
65°	2058.6	2099.8	2367.8	3947.8	6109.5	10643.5	18436.0	25104.2	33050.1	33698.2
67.5°	1495.3	1515.9	1683.1	2411.3	3624.9	7717.0	15216.4	23730.2	34270.6	35353.8
70°	1149.5	1163.3	1284.6	1584.6	2141.1	4763.0	11051.1	20998.4	33386.7	34680.5
72.5°	934.3	948.0	1041.9	1172.4	1419.7	2816.6	6698.0	17052.9	29484.8	30881.6
75°	787.7	806.0	890.8	975.5	1112.9	1809.0	3141.7	11875.4	22173.1	23089.1
77.5°	437.4	403.0	723.6	808.3	938.9	1145.0	1470.1	6988.8	12418.1	12672.3
80°	272.5	281.7	574.8	650.3	721.3	577.1	673.2	2690.6	4305.0	4089.8
82.5°	16.0	36.6	442.0	469.4	494.6	247.3	254.2	913.7	1037.3	952.6
85°	0.0	0.0	201.5	162.6	171.7	71.0	73.3	213.0	139.7	151.1
87.5°	0.0	0.0	0.0	4.6	0.0	6.9	13.7	18.3	6.9	9.2
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°
4252.3	0°	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3
4469.9	2.5°	4309.6	4149.3	3824.1	3505.8	3247.1	3006.6	2834.9	2672.3	2589.9	2585.3
4758.4	5°	4440.1	4103.5	3453.2	2878.4	2415.8	2044.9	1804.4	1632.7	1545.7	1515.9
5113.3	7.5°	4623.3	4117.2	3128.0	2328.8	1783.8	1465.5	1328.1	1273.2	1254.9	1234.3
5514.1	10°	4854.6	4149.3	2837.2	1875.4	1406.0	1245.7	1190.7	1167.8	1154.1	1140.4
5965.2	12.5°	5113.3	4179.1	2548.7	1557.1	1236.5	1154.1	1115.2	1087.7	1069.4	1053.4
6427.8	15°	5365.2	4197.4	2248.7	1335.0	1149.5	1083.1	1041.9	1012.1	986.9	968.6
6881.2	17.5°	5614.8	4222.6	1967.0	1202.2	1078.5	1012.1	970.9	934.3	913.7	893.1
7357.4	20°	5891.9	4218.0	1701.4	1108.3	1007.6	941.1	897.6	863.3	842.7	819.8
7861.2	22.5°	6148.4	4195.1	1467.8	1028.2	934.3	870.2	822.1	787.7	767.1	748.8
8376.5	25°	6443.8	4176.8	1273.2	954.9	865.6	801.5	748.8	716.7	693.8	677.8
8894.0	27.5°	6727.7	4149.3	1131.2	888.5	799.2	737.3	687.0	650.3	629.7	618.3
9427.5	30°	7007.1	4142.4	1078.5	824.4	739.6	677.8	627.4	593.1	577.1	572.5
10013.7	32.5°	7343.7	4160.7	1101.4	801.5	684.7	622.9	574.8	549.6	533.5	533.5
10666.4	35°	7703.2	4156.2	1135.8	822.1	648.0	567.9	531.3	515.2	499.2	499.2
11390.0	37.5°	8154.3	4163.0	1163.3	856.4	634.3	522.1	501.5	480.9	471.7	471.7
12182.3	40°	8827.6	4389.7	1149.5	886.2	629.7	490.0	448.8	442.0	435.1	435.1
13077.6	42.5°	9651.9	4882.1	1167.8	888.5	627.4	467.1	412.2	425.9	409.9	407.6
14087.5	45°	10554.2	5420.2	1284.6	840.4	625.1	455.7	393.9	409.9	384.7	384.7
15257.6	47.5°	11449.5	5953.7	1403.7	771.7	618.3	453.4	377.8	368.7	361.8	364.1
16782.7	50°	12683.8	6388.8	1449.5	677.8	602.2	448.8	348.1	350.4	345.8	350.4
18932.9	52.5°	14027.9	6480.4	1394.5	572.5	556.4	435.1	327.5	336.6	334.3	338.9
20446.5	55°	14866.0	6382.0	1151.8	476.3	485.5	380.1	306.8	325.2	325.2	325.2
21925.8	57.5°	15731.6	5962.9	817.5	387.0	403.0	311.4	288.5	313.7	311.4	309.1
23707.3	60°	16354.5	5285.1	538.1	318.3	320.6	256.5	267.9	295.4	293.1	281.7
25543.8	62.5°	16819.3	4536.3	345.8	270.2	245.0	231.3	245.0	267.9	258.8	233.6
27101.0	65°	16766.6	3499.0	265.6	231.3	201.5	201.5	213.0	233.6	206.1	164.9
27398.7	67.5°	15788.9	2367.8	219.8	194.6	169.5	167.2	176.3	194.6	176.3	139.7
25873.6	70°	14041.7	1548.0	176.3	151.1	135.1	123.7	142.0	167.2	148.8	112.2
22026.6	72.5°	11396.8	943.4	132.8	109.9	98.5	80.1	112.2	137.4	119.1	82.4
15317.1	75°	7373.5	480.9	91.6	71.0	52.7	48.1	82.4	103.0	82.4	50.4
6796.4	77.5°	2821.2	201.5	50.4	32.1	27.5	22.9	45.8	61.8	34.3	11.4
1316.7	80°	542.7	84.7	25.2	16.0	13.7	9.2	6.9	4.6	0.0	0.0
233.6	82.5°	93.9	27.5	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
45.8	85°	32.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	87.5°	11.4	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>
4252.3
2580.7
1511.3
1229.7
1135.8
1048.8
966.3
890.8
817.5
746.5
675.5
618.3
570.2
533.5
499.2
471.7
435.1
405.3
384.7
364.1
350.4
338.9
325.2
309.1
281.7
229.0
160.3
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