

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: P953984

Luminaire Tested: **GALN-SB7B-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

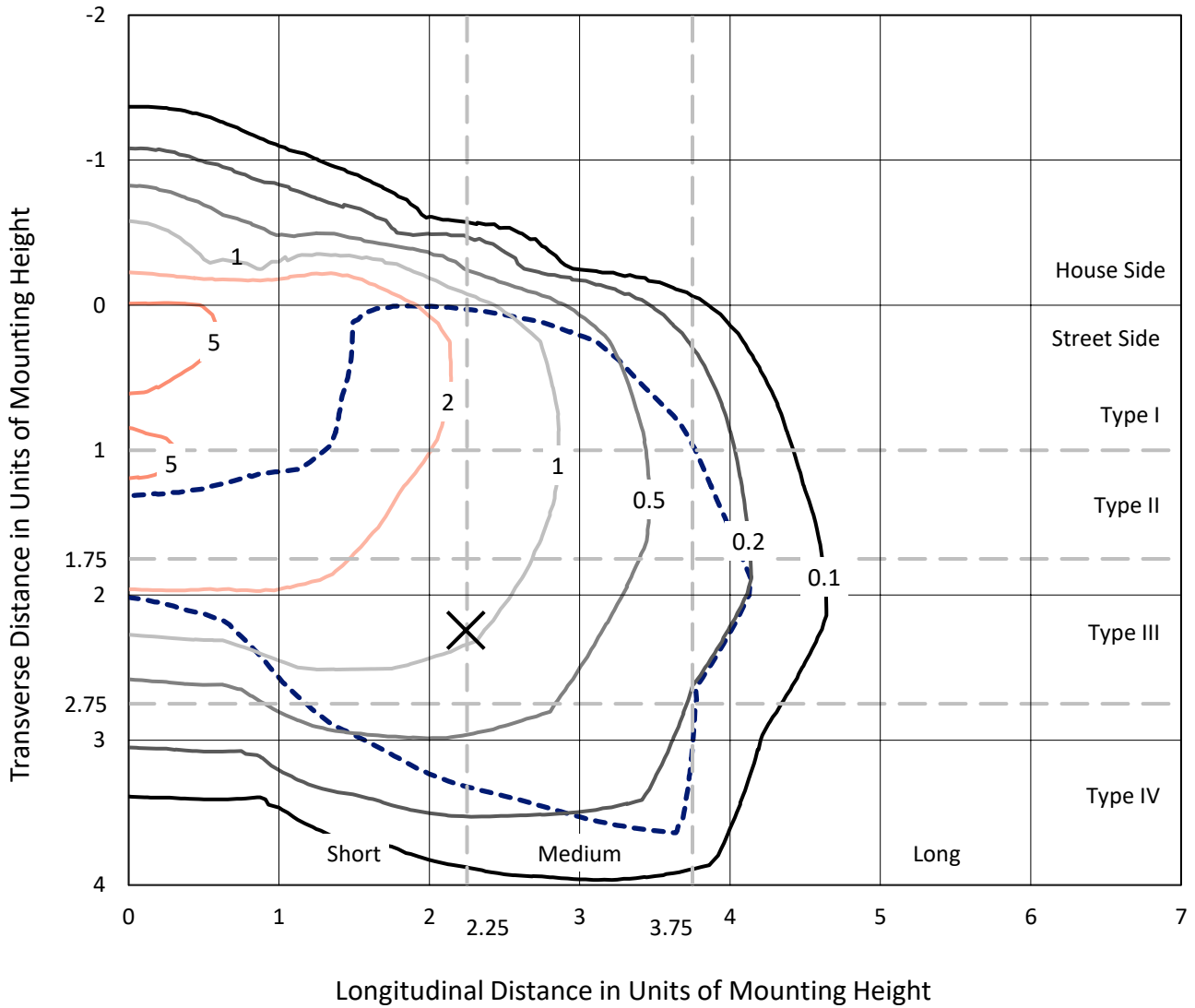
Lumens per Lamp: N/A  
Luminaire Lumens: 29506 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

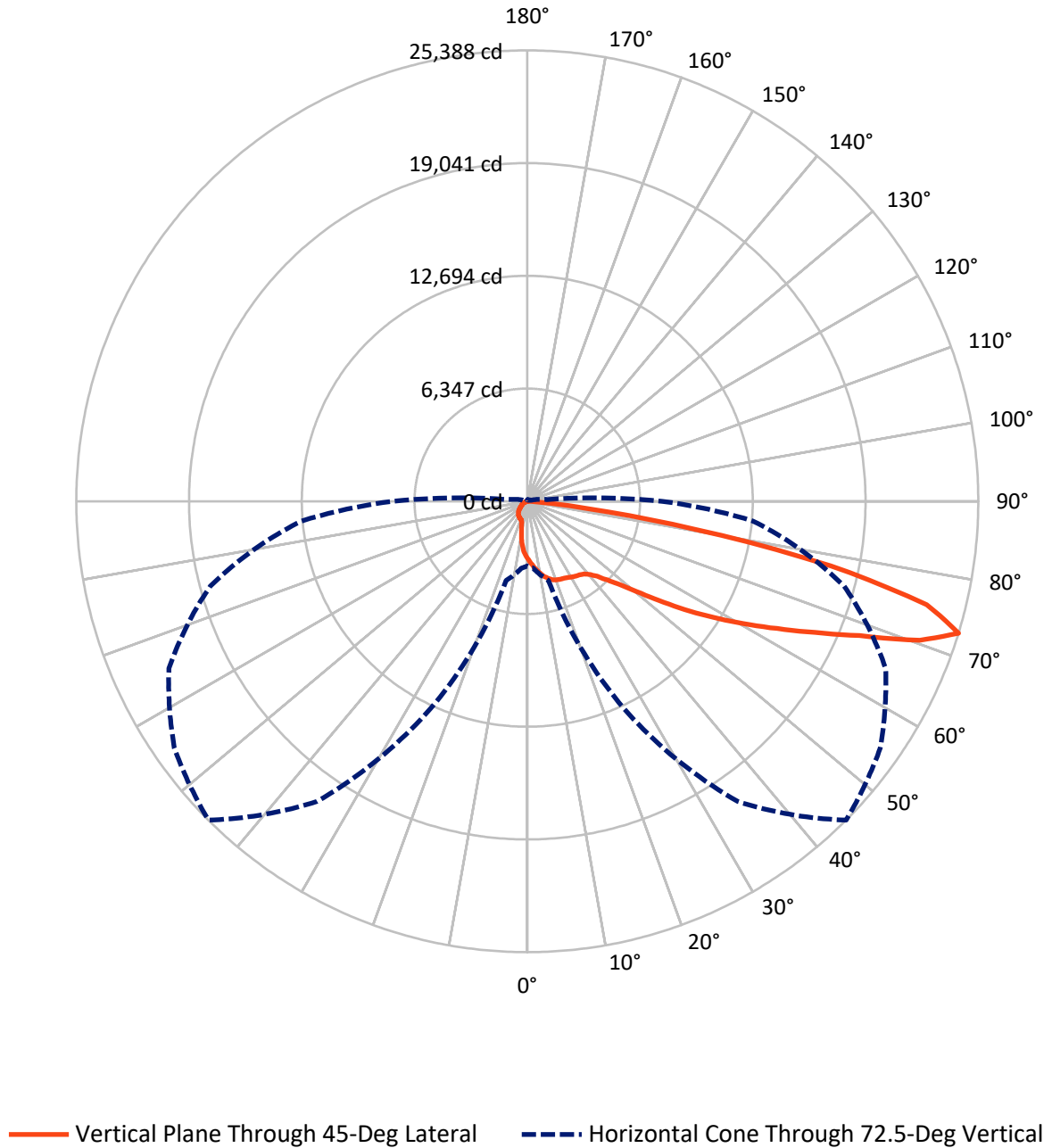
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3100.3	0.0	3100.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	26405.7	0.0	26405.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	29506.0	0.0	29506.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.6	1.0
10°-20°	890.1	3.0
20°-30°	1461.7	5.0
30°-40°	2073.0	7.0
40°-50°	3426.5	11.6
50°-60°	6155.3	20.9
60°-70°	8546.9	29.0
70°-80°	6199.7	21.0
80°-90°	448.2	1.5
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°	29506.0	100.0
0°-180°	29506.0	100.0

**Coefficient of Utilization**



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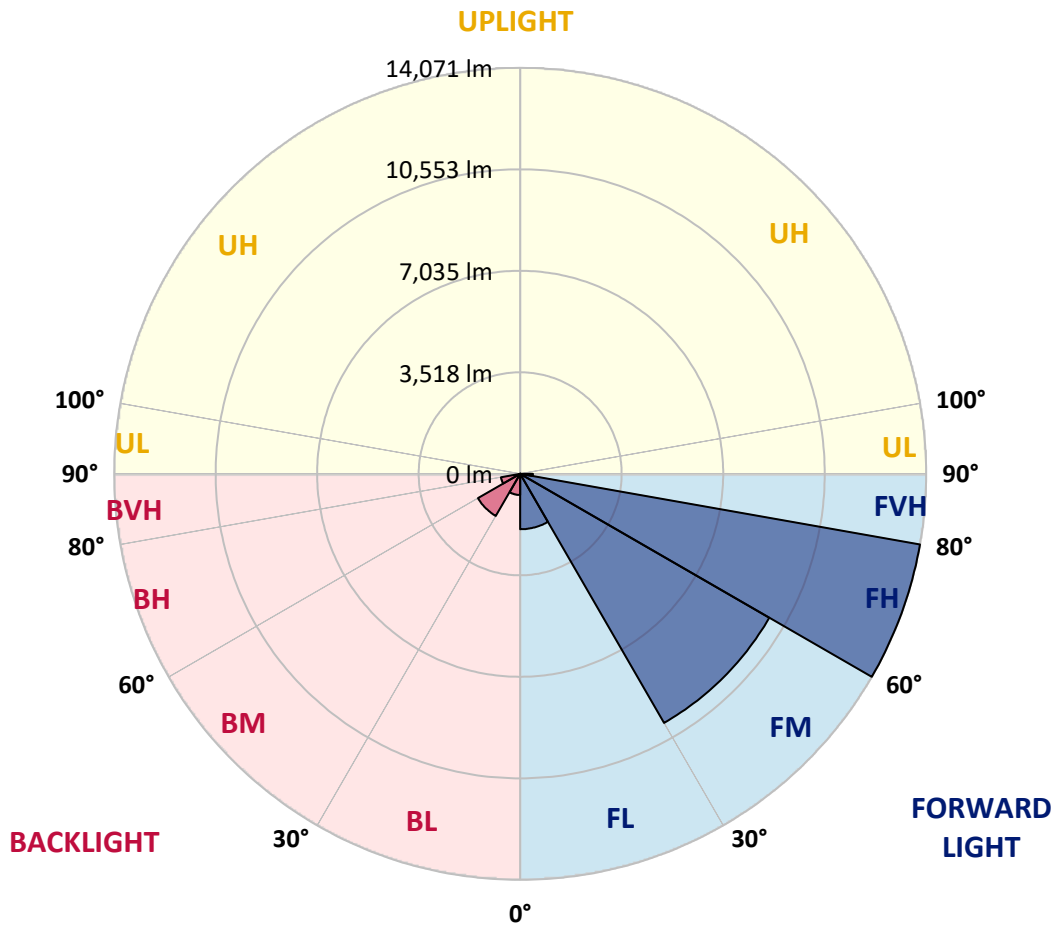
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.0	6.5			
FM (30°-60°)	9968.7	33.8			
FH (60°-80°)	14070.6	47.7			G5
FVH (80°-90°)	444.4	1.5			G3/500
BL (0°-30°)	734.3	2.5	B2/1000		
BM (30°-60°)	1686.1	5.7	B2/2500		
BH (60°-80°)	676.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4
2.5°	3530.5	3536.6	3532.5	3508.4	3468.1	3445.9	3433.8	3393.6	3367.4	3321.1
5°	3854.8	3878.9	3864.8	3816.5	3740.0	3685.6	3669.5	3586.9	3512.4	3425.8
7.5°	4199.2	4211.2	4185.1	4122.6	4019.9	3927.3	3913.2	3798.4	3679.5	3546.6
10°	4497.2	4511.3	4471.0	4380.4	4263.6	4148.8	4128.7	4001.8	3860.8	3697.7
12.5°	4747.0	4761.1	4708.7	4599.9	4471.0	4352.2	4332.1	4199.2	4044.1	3862.8
15°	4936.3	4962.5	4892.0	4775.2	4636.2	4517.4	4507.3	4376.4	4225.3	4023.9
17.5°	5047.0	5073.2	5006.8	4865.8	4747.0	4646.3	4634.2	4525.4	4384.4	4191.1
20°	5065.2	5089.3	5018.8	4896.0	4797.3	4716.8	4710.7	4632.2	4529.5	4344.2
22.5°	5010.8	5041.0	4976.6	4877.9	4809.4	4767.1	4759.0	4714.7	4656.3	4499.2
25°	4954.4	4978.6	4930.2	4843.6	4807.4	4803.4	4809.4	4801.3	4789.3	4656.3
27.5°	4950.4	4976.6	4922.2	4839.6	4819.5	4861.8	4867.8	4906.1	4916.1	4799.3
30°	4984.6	5002.7	4950.4	4863.8	4853.7	4950.4	4952.4	5020.9	5037.0	4920.2
32.5°	5059.1	5079.3	5026.9	4900.0	4885.9	5020.9	5026.9	5117.5	5143.7	5049.1
35°	5234.3	5258.5	5198.1	5000.7	4950.4	5087.3	5105.5	5212.2	5264.6	5186.0
37.5°	5671.4	5600.9	5518.3	5204.1	5097.4	5192.1	5222.3	5347.1	5439.8	5349.1
40°	6756.9	6535.4	6277.6	5550.5	5355.2	5415.6	5439.8	5564.6	5691.5	5602.9
42.5°	8386.2	8124.4	7709.5	6348.1	5743.9	5774.1	5792.2	5901.0	6080.2	6009.7
45°	9838.3	9743.7	9320.7	7709.5	6470.9	6321.9	6344.1	6400.4	6664.3	6638.1
47.5°	10954.1	10899.7	10573.4	9272.4	7699.5	6992.6	7055.0	7081.2	7461.8	7554.5
50°	11812.0	11791.9	11499.9	10662.0	9304.6	7981.4	8003.6	7947.2	8517.1	8746.7
52.5°	12621.6	12690.1	12474.6	11953.0	11018.5	9276.4	9272.4	9006.5	9775.9	10122.3
55°	13352.7	13376.9	13399.0	13270.1	12742.5	10750.6	10712.4	10277.4	11236.0	11594.5
57.5°	14039.5	14049.6	14246.9	14510.8	14536.9	12333.6	12263.2	11741.5	12831.1	13086.9
60°	14500.7	14547.0	14963.9	15697.0	16017.2	13967.0	13928.7	13397.0	14454.4	14573.2
62.5°	13836.1	14118.0	15169.3	16623.4	17414.9	15777.6	15759.4	15260.0	16162.2	16065.6
65°	11199.8	11677.1	13525.9	17249.8	18786.4	17799.6	17825.8	17294.1	17916.4	17602.2
67.5°	7834.4	8337.9	10525.1	17300.1	20319.1	20174.1	20325.1	19491.3	19779.3	19074.4
70°	5417.6	5677.4	7101.3	16216.6	21513.4	23444.8	23440.8	22190.1	21632.2	19745.1
72.5°	3643.3	3778.2	4612.0	12865.3	20635.3	25388.3	25271.5	24252.4	22256.5	18466.2
75°	1536.7	1635.4	2134.8	7230.2	16325.4	23227.3	22911.1	21432.8	19775.3	14541.0
77.5°	487.4	529.7	841.8	2588.0	8992.4	17459.2	17124.9	13384.9	13254.0	7294.7
80°	231.6	269.9	473.3	1039.2	3538.6	9495.9	9449.6	6072.2	5701.6	1969.7
82.5°	100.7	118.8	261.8	555.9	1583.0	3387.5	3456.0	2066.3	1709.9	747.2
85°	32.2	42.3	120.8	255.8	668.6	841.8	831.8	491.4	688.8	406.8
87.5°	0.0	0.0	40.3	58.4	68.5	48.3	54.4	42.3	191.3	112.8
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°
3232.4	0°	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4	3232.4
3272.7	2.5°	3248.6	3216.3	3159.9	3107.6	3061.3	3014.9	2986.7	2946.5	2942.4	2942.4
3325.1	5°	3270.7	3218.3	3117.6	3010.9	2888.1	2771.2	2654.4	2541.6	2505.4	2479.2
3409.7	7.5°	3335.2	3252.6	3093.5	2890.1	2656.4	2400.7	2221.4	2028.1	1953.6	1913.3
3522.5	10°	3427.8	3315.0	3073.3	2716.9	2338.2	1989.8	1734.0	1524.6	1444.0	1409.8
3645.3	12.5°	3530.5	3391.5	3037.1	2501.4	1989.8	1572.9	1323.2	1226.5	1214.4	1214.4
3792.3	15°	3653.4	3484.2	2974.7	2247.6	1625.3	1244.6	1156.0	1160.1	1172.1	1180.2
3935.3	17.5°	3780.2	3582.9	2876.0	1963.6	1303.0	1119.8	1121.8	1127.8	1137.9	1146.0
4090.4	20°	3917.2	3681.6	2745.1	1661.5	1117.8	1083.5	1089.6	1095.6	1103.7	1107.7
4235.4	22.5°	4064.2	3774.2	2590.0	1365.5	1055.3	1053.3	1055.3	1061.4	1071.4	1071.4
4404.6	25°	4221.3	3876.9	2412.8	1150.0	1023.1	1023.1	1027.1	1031.2	1039.2	1039.2
4567.7	27.5°	4382.4	3971.6	2225.5	1037.2	994.9	992.9	992.9	998.9	1003.0	1005.0
4728.8	30°	4559.7	4082.3	2038.2	1013.0	972.8	962.7	956.6	960.7	964.7	966.7
4898.0	32.5°	4740.9	4189.1	1871.0	1023.1	950.6	932.5	912.3	908.3	908.3	916.4
5073.2	35°	4942.3	4305.9	1742.1	1057.3	938.5	888.2	855.9	837.8	839.8	851.9
5282.7	37.5°	5184.0	4446.9	1647.4	1087.6	930.5	837.8	785.5	763.3	749.2	763.3
5570.7	40°	5500.2	4654.3	1579.0	1111.7	920.4	779.4	708.9	672.7	646.5	654.5
6017.8	42.5°	5965.4	4980.6	1552.8	1113.7	898.2	710.9	630.4	582.0	543.8	545.8
6690.5	45°	6618.0	5496.2	1687.7	1087.6	849.9	636.4	547.8	483.4	459.2	453.1
7695.4	47.5°	7512.2	6247.4	1999.9	1033.2	779.4	563.9	467.2	412.9	394.7	384.7
9014.6	50°	8710.5	7212.1	2346.3	972.8	708.9	495.4	400.8	366.5	354.5	344.4
10579.5	52.5°	10100.1	8190.9	2630.3	912.3	638.4	435.0	358.5	338.3	328.3	320.2
12089.9	55°	11375.0	8865.6	2614.2	847.9	570.0	386.7	328.3	316.2	304.1	296.1
13391.0	57.5°	12168.5	8960.2	2155.0	777.4	491.4	348.4	300.1	292.0	277.9	267.9
14516.8	60°	12533.0	8420.5	1510.5	684.8	412.9	312.2	269.9	265.8	247.7	233.6
15582.2	62.5°	12599.5	7417.5	1007.0	570.0	344.4	277.9	239.7	233.6	209.5	185.3
16448.2	65°	12329.6	5983.5	696.8	445.1	294.0	241.7	205.4	193.3	167.2	143.0
16653.6	67.5°	11475.7	4201.2	485.4	320.2	249.7	191.3	163.1	159.1	139.0	118.8
15606.4	70°	9910.8	2394.6	324.3	239.7	197.4	130.9	128.9	132.9	112.8	96.7
12750.5	72.5°	7598.8	1095.6	201.4	175.2	134.9	88.6	102.7	104.7	86.6	72.5
7955.2	75°	4473.1	469.3	126.9	112.8	68.5	58.4	74.5	76.5	58.4	46.3
2908.2	77.5°	1522.6	177.2	80.6	66.5	34.2	32.2	48.3	48.3	32.2	18.1
584.1	80°	346.4	66.5	40.3	26.2	16.1	14.1	16.1	14.1	8.1	2.0
179.2	82.5°	98.7	26.2	16.1	10.1	6.0	6.0	2.0	0.0	0.0	0.0
62.4	85°	28.2	12.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
22.2	87.5°	12.1	2.0	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>
3232.4
2952.5
2491.3
1919.3
1409.8
1214.4
1180.2
1146.0
1109.7
1075.5
1041.2
1007.0
970.7
922.4
858.0
759.3
650.5
537.7
445.1
378.6
342.4
318.2
292.0
265.8
229.6
173.2
134.9
112.8
88.6
64.4
40.3
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