

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: P951968

Luminaire Tested: **GALN-SB5D-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951968  
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-SB5D-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

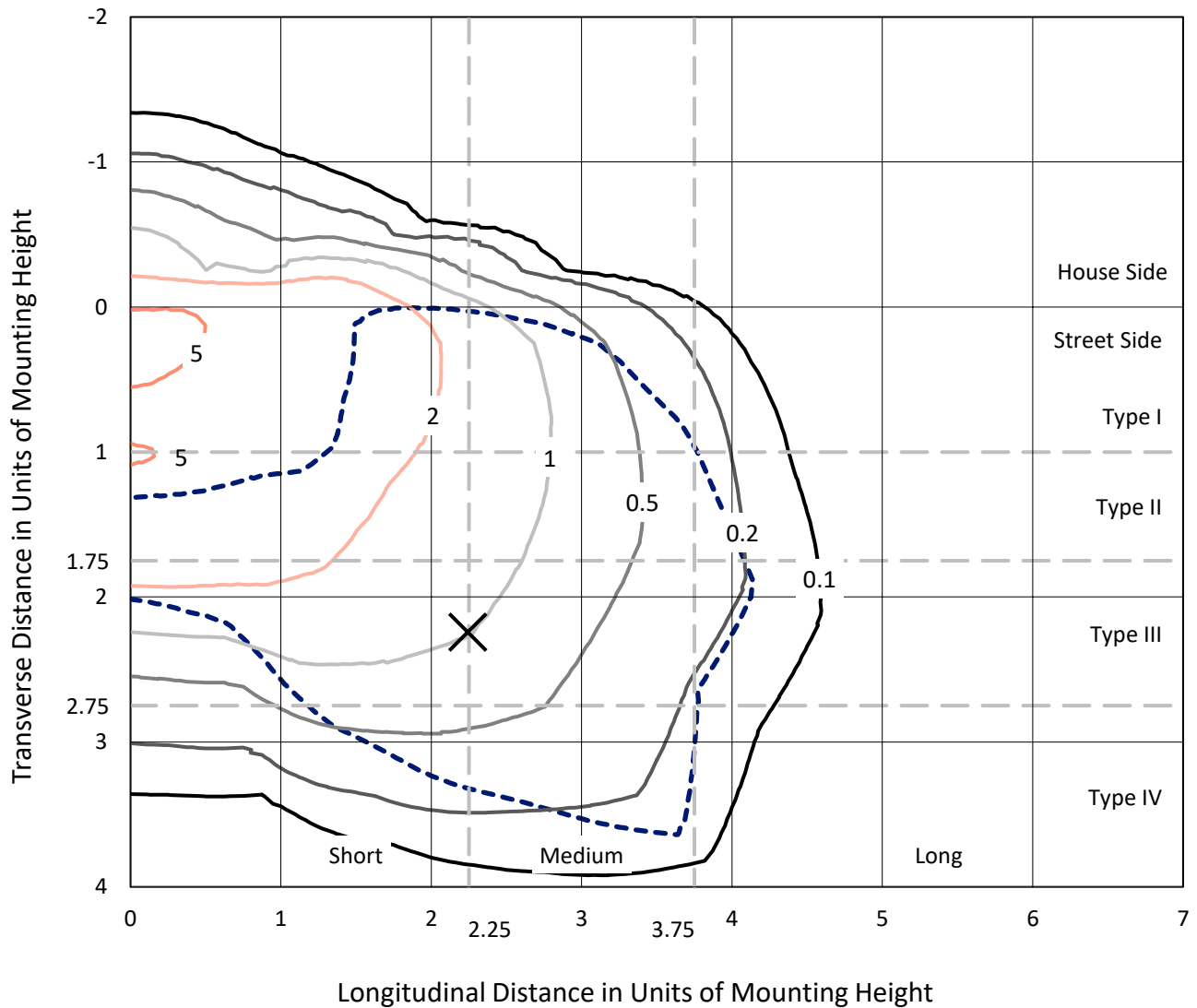
Lumens per Lamp: N/A  
Luminaire Lumens: 27545 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

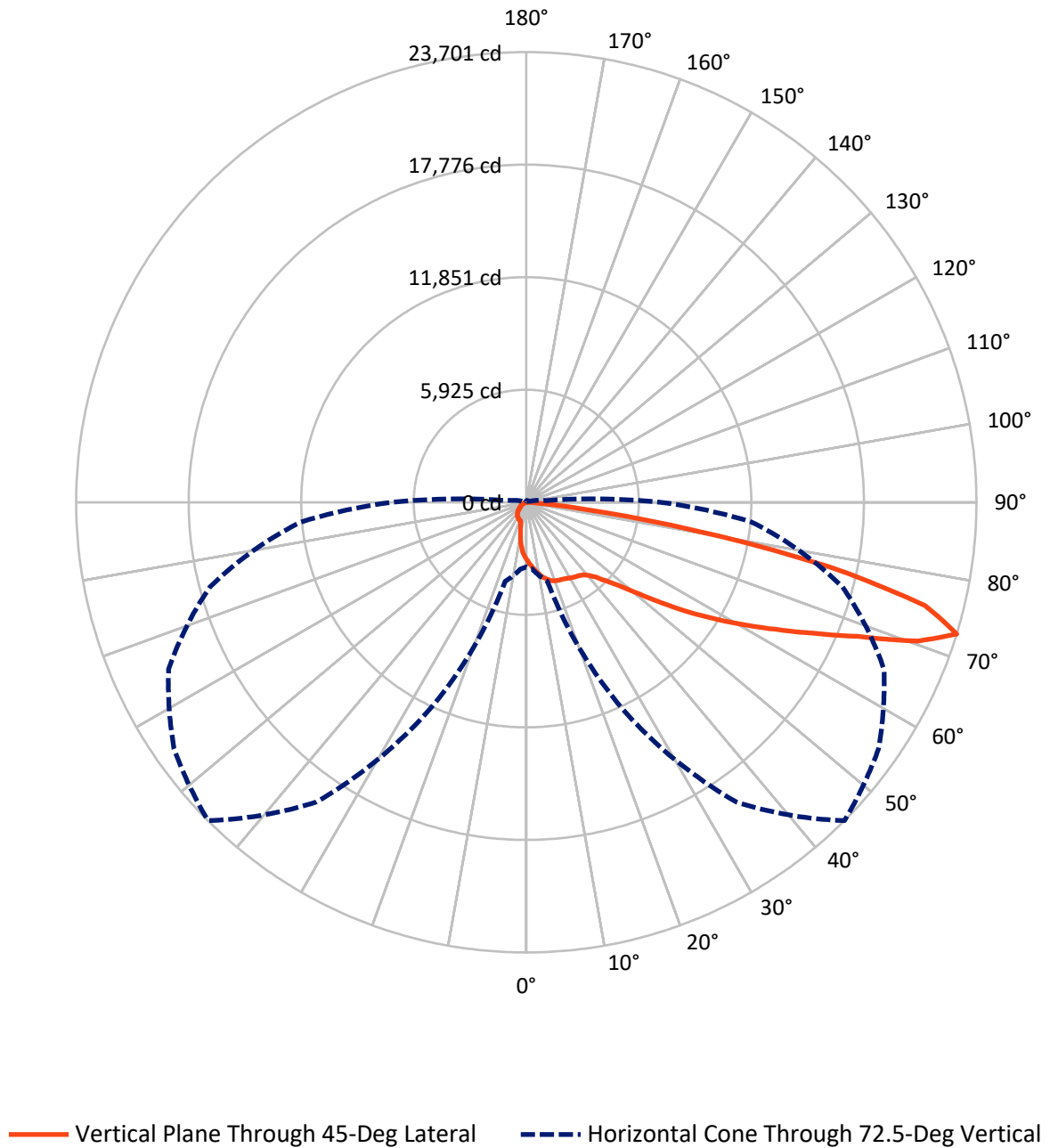
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2894.2	0.0	2894.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	24650.8	0.0	24650.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	27545.0	0.0	27545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.3	1.0
10°-20°	830.9	3.0
20°-30°	1364.5	5.0
30°-40°	1935.2	7.0
40°-50°	3198.8	11.6
50°-60°	5746.2	20.9
60°-70°	7978.9	29.0
70°-80°	5787.7	21.0
80°-90°	418.4	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°	27545.0	100.0
0°-180°	27545.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951968

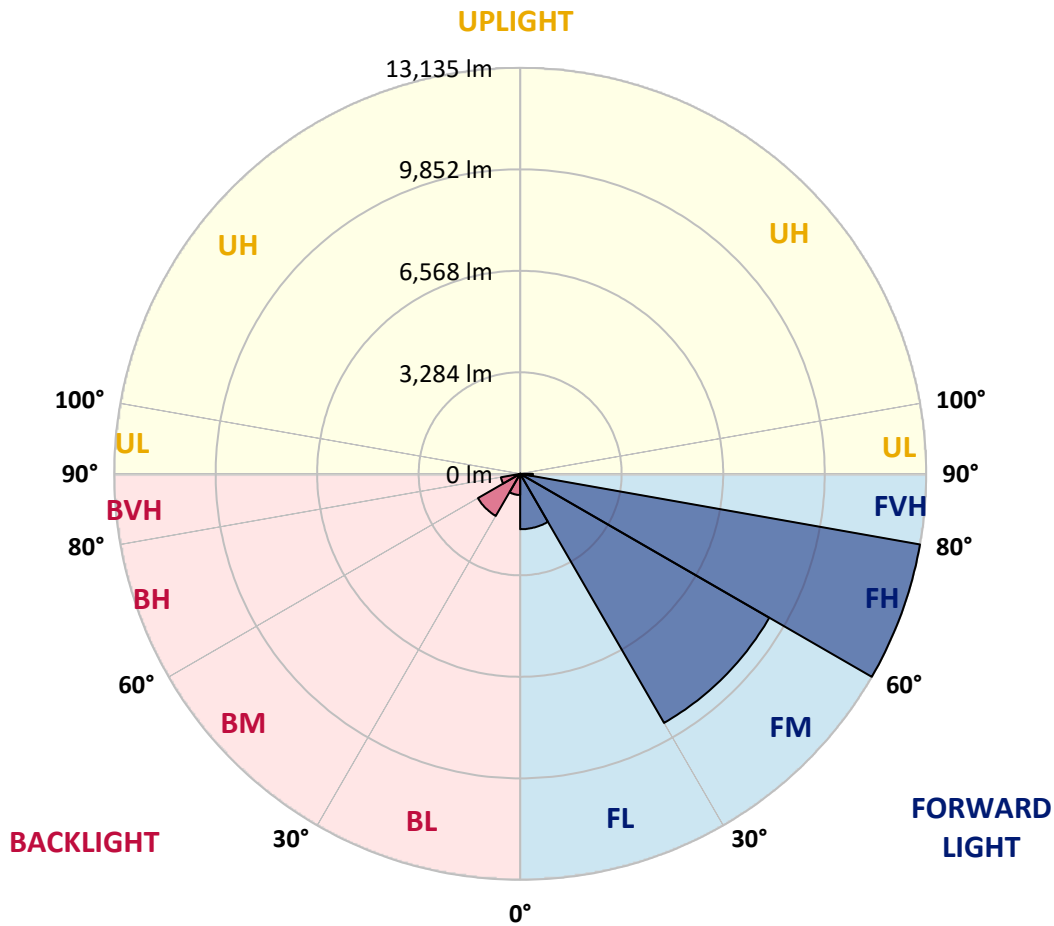
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.3	6.5			
FM (30°-60°)	9306.2	33.8			
FH (60°-80°)	13135.4	47.7			G5
FVH (80°-90°)	414.9	1.5			G3/500
BL (0°-30°)	685.5	2.5	B2/1000		
BM (30°-60°)	1574.0	5.7	B2/2500		
BH (60°-80°)	631.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.5	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°	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6
2.5°	3295.9	3301.5	3297.8	3275.2	3237.6	3216.9	3205.6	3168.0	3143.6	3100.3
5°	3598.6	3621.1	3608.0	3562.9	3491.4	3440.6	3425.6	3348.5	3279.0	3198.1
7.5°	3920.1	3931.4	3906.9	3848.6	3752.7	3666.3	3653.1	3545.9	3435.0	3310.9
10°	4198.3	4211.5	4173.9	4089.3	3980.2	3873.1	3854.3	3735.8	3604.2	3451.9
12.5°	4431.5	4444.6	4395.8	4294.2	4173.9	4063.0	4044.2	3920.1	3775.3	3606.1
15°	4608.2	4632.6	4566.8	4457.8	4328.1	4217.1	4207.7	4085.5	3944.5	3756.5
17.5°	4711.6	4736.1	4674.0	4542.4	4431.5	4337.5	4326.2	4224.7	4093.0	3912.6
20°	4728.5	4751.1	4685.3	4570.6	4478.5	4403.3	4397.6	4324.3	4228.4	4055.4
22.5°	4677.8	4706.0	4645.8	4553.7	4489.8	4450.3	4442.8	4401.4	4346.9	4200.2
25°	4625.1	4647.7	4602.6	4521.7	4487.9	4484.1	4489.8	4482.2	4471.0	4346.9
27.5°	4621.4	4645.8	4595.0	4518.0	4499.2	4538.6	4544.3	4580.0	4589.4	4480.4
30°	4653.3	4670.3	4621.4	4540.5	4531.1	4621.4	4623.2	4687.2	4702.2	4593.2
32.5°	4722.9	4741.7	4692.8	4574.4	4561.2	4687.2	4692.8	4777.4	4801.9	4713.5
35°	4886.5	4909.0	4852.6	4668.4	4621.4	4749.2	4766.1	4865.8	4914.7	4841.3
37.5°	5294.5	5228.6	5151.6	4858.3	4758.6	4847.0	4875.2	4991.8	5078.2	4993.6
40°	6307.8	6101.0	5860.4	5181.6	4999.3	5055.7	5078.2	5194.8	5313.3	5230.5
42.5°	7828.9	7584.5	7197.1	5926.2	5362.1	5390.3	5407.3	5508.8	5676.1	5610.3
45°	9184.4	9096.1	8701.3	7197.1	6040.9	5901.7	5922.4	5975.1	6221.4	6196.9
47.5°	10226.0	10175.3	9870.7	8656.1	7187.7	6527.8	6586.1	6610.5	6965.9	7052.4
50°	11027.0	11008.2	10735.6	9953.4	8686.2	7451.0	7471.6	7419.0	7951.1	8165.4
52.5°	11782.8	11846.7	11645.5	11158.6	10286.2	8659.9	8656.1	8408.0	9126.2	9449.5
55°	12465.3	12487.8	12508.5	12388.2	11895.6	10036.1	10000.4	9594.3	10489.3	10823.9
57.5°	13106.4	13115.8	13300.1	13546.4	13570.8	11513.9	11448.1	10961.2	11978.3	12217.1
60°	13537.0	13580.2	13969.4	14653.8	14952.7	13038.7	13003.0	12506.6	13493.7	13604.6
62.5°	12916.5	13179.7	14161.2	15518.6	16257.5	14729.0	14712.0	14245.8	15088.1	14997.8
65°	10455.4	10901.0	12627.0	16103.3	17537.9	16616.6	16641.1	16144.7	16725.7	16432.4
67.5°	7313.7	7783.8	9825.6	16150.3	18968.7	18833.3	18974.3	18195.9	18464.8	17806.7
70°	5057.6	5300.1	6629.3	15138.8	20083.6	21886.6	21882.9	20715.3	20194.5	18432.8
72.5°	3401.2	3527.1	4305.5	12010.3	19263.8	23701.0	23591.9	22640.6	20777.3	17238.9
75°	1434.5	1526.7	1992.9	6749.7	15240.4	21683.6	21388.4	20008.4	18461.0	13574.6
77.5°	455.0	494.5	785.9	2416.0	8394.8	16298.9	15986.8	12495.4	12373.2	6809.8
80°	216.2	251.9	441.8	970.1	3303.4	8864.8	8821.6	5668.6	5322.7	1838.8
82.5°	94.0	110.9	244.4	518.9	1477.8	3162.4	3226.3	1929.0	1596.2	697.5
85°	30.1	39.5	112.8	238.8	624.2	785.9	776.5	458.8	643.0	379.8
87.5°	0.0	0.0	37.6	54.5	63.9	45.1	50.8	39.5	178.6	105.3
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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 CATALOG NUMBER: GALN-SB5D-950-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3017.6	0°	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6	3017.6
3055.2	2.5°	3032.7	3002.6	2949.9	2901.0	2857.8	2814.6	2788.2	2750.6	2746.9	2746.9
3104.1	5°	3053.3	3004.5	2910.4	2810.8	2696.1	2587.1	2478.0	2372.7	2338.9	2314.4
3183.1	7.5°	3113.5	3036.4	2887.9	2698.0	2479.9	2241.1	2073.8	1893.3	1823.7	1786.1
3288.4	10°	3200.0	3094.7	2869.1	2536.3	2182.8	1857.6	1618.8	1423.3	1348.1	1316.1
3403.0	12.5°	3295.9	3166.1	2835.2	2335.1	1857.6	1468.4	1235.2	1145.0	1133.7	1133.7
3540.3	15°	3410.6	3252.6	2777.0	2098.2	1517.3	1161.9	1079.2	1083.0	1094.2	1101.8
3673.8	17.5°	3529.0	3344.8	2684.8	1833.1	1216.4	1045.4	1047.2	1052.9	1062.3	1069.8
3818.5	20°	3656.9	3436.9	2562.6	1551.1	1043.5	1011.5	1017.2	1022.8	1030.3	1034.1
3953.9	22.5°	3794.1	3523.4	2417.9	1274.7	985.2	983.3	985.2	990.8	1000.2	1000.2
4111.9	25°	3940.8	3619.3	2252.4	1073.6	955.1	955.1	958.9	962.6	970.1	970.1
4264.1	27.5°	4091.2	3707.6	2077.5	968.3	928.8	926.9	926.9	932.5	936.3	938.2
4414.6	30°	4256.6	3811.0	1902.7	945.7	908.1	898.7	893.1	896.8	900.6	902.5
4572.5	32.5°	4425.8	3910.7	1746.6	955.1	887.4	870.5	851.7	847.9	847.9	855.5
4736.1	35°	4613.8	4019.7	1626.3	987.1	876.1	829.1	799.1	782.1	784.0	795.3
4931.6	37.5°	4839.5	4151.3	1537.9	1015.3	868.6	782.1	733.3	712.6	699.4	712.6
5200.4	40°	5134.6	4345.0	1474.0	1037.8	859.2	727.6	661.8	628.0	603.5	611.0
5617.8	42.5°	5569.0	4649.6	1449.6	1039.7	838.5	663.7	588.5	543.4	507.6	509.5
6245.8	45°	6178.1	5130.9	1575.6	1015.3	793.4	594.1	511.4	451.2	428.7	423.0
7184.0	47.5°	7012.9	5832.2	1867.0	964.5	727.6	526.4	436.2	385.4	368.5	359.1
8415.5	50°	8131.6	6732.8	2190.4	908.1	661.8	462.5	374.1	342.2	330.9	321.5
9876.3	52.5°	9428.9	7646.5	2455.5	851.7	596.0	406.1	334.7	315.9	306.5	298.9
11286.4	55°	10619.0	8276.3	2440.4	791.5	532.1	361.0	306.5	295.2	283.9	276.4
12501.0	57.5°	11359.8	8364.7	2011.7	725.7	458.8	325.3	280.1	272.6	259.5	250.1
13552.0	60°	11700.1	7860.8	1410.1	639.2	385.4	291.4	251.9	248.2	231.3	218.1
14546.6	62.5°	11762.1	6924.5	940.1	532.1	321.5	259.5	223.7	218.1	195.5	173.0
15355.0	65°	11510.2	5585.9	650.5	415.5	274.5	225.6	191.8	180.5	156.1	133.5
15546.8	67.5°	10713.0	3922.0	453.1	298.9	233.1	178.6	152.3	148.5	129.7	110.9
14569.2	70°	9252.1	2235.5	302.7	223.7	184.3	122.2	120.3	124.1	105.3	90.2
11903.1	72.5°	7093.7	1022.8	188.0	163.6	126.0	82.7	95.9	97.8	80.8	67.7
7426.5	75°	4175.8	438.1	118.4	105.3	63.9	54.5	69.6	71.4	54.5	43.2
2714.9	77.5°	1421.4	165.5	75.2	62.0	32.0	30.1	45.1	45.1	30.1	16.9
545.2	80°	323.4	62.0	37.6	24.4	15.0	13.2	15.0	13.2	7.5	1.9
167.3	82.5°	92.1	24.4	15.0	9.4	5.6	5.6	1.9	0.0	0.0	0.0
58.3	85°	26.3	11.3	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
20.7	87.5°	11.3	1.9	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>
3017.6
2756.3
2325.7
1791.8
1316.1
1133.7
1101.8
1069.8
1036.0
1004.0
972.0
940.1
906.2
861.1
800.9
708.8
607.3
502.0
415.5
353.5
319.6
297.1
272.6
248.2
214.3
161.7
126.0
105.3
82.7
60.2
37.6
13.2
0.0
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