

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: P950013

Luminaire Tested: **GALN-SB4C-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

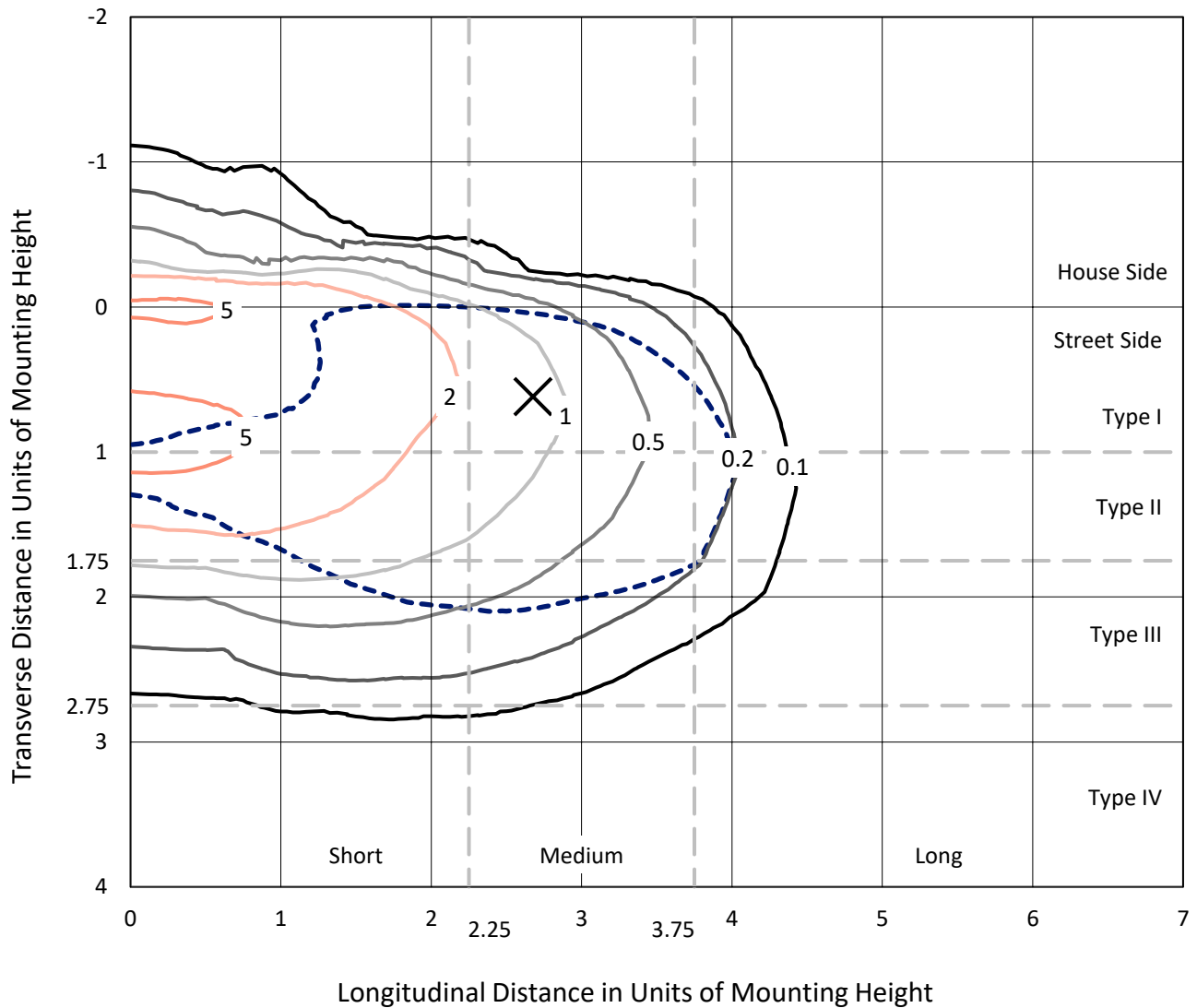
Lumens per Lamp: N/A  
Luminaire Lumens: 22453 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

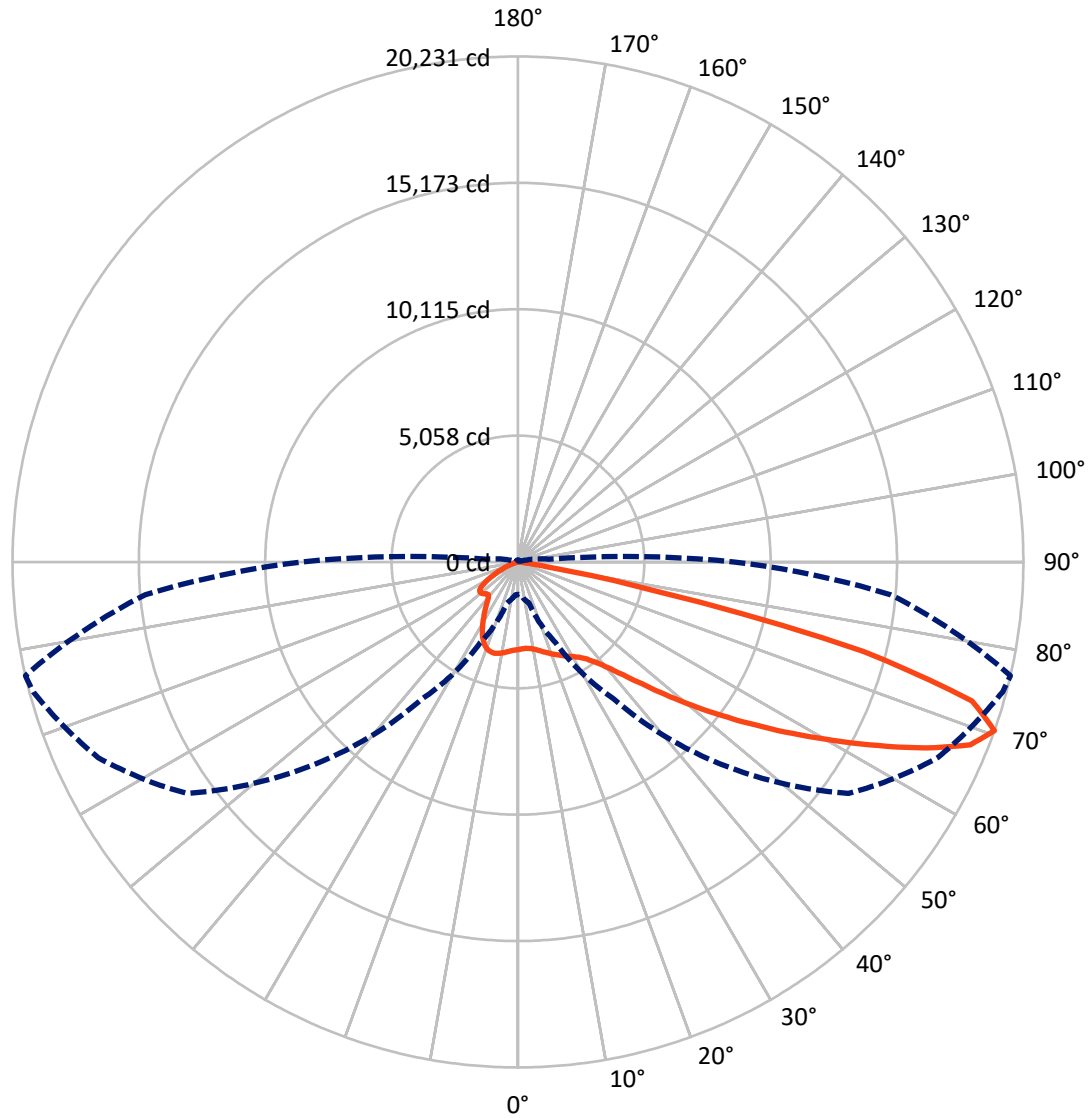
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2366.9	0.0	2366.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	20086.1	0.0	20086.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	22453.0	0.0	22453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.8	1.3
10°-20°	716.5	3.2
20°-30°	1108.3	4.9
30°-40°	2011.0	9.0
40°-50°	3796.1	16.9
50°-60°	5485.0	24.4
60°-70°	5838.6	26.0
70°-80°	3094.1	13.8
80°-90°	101.6	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°	22453.0	100.0
0°-180°	22453.0	100.0

**Coefficient of Utilization**



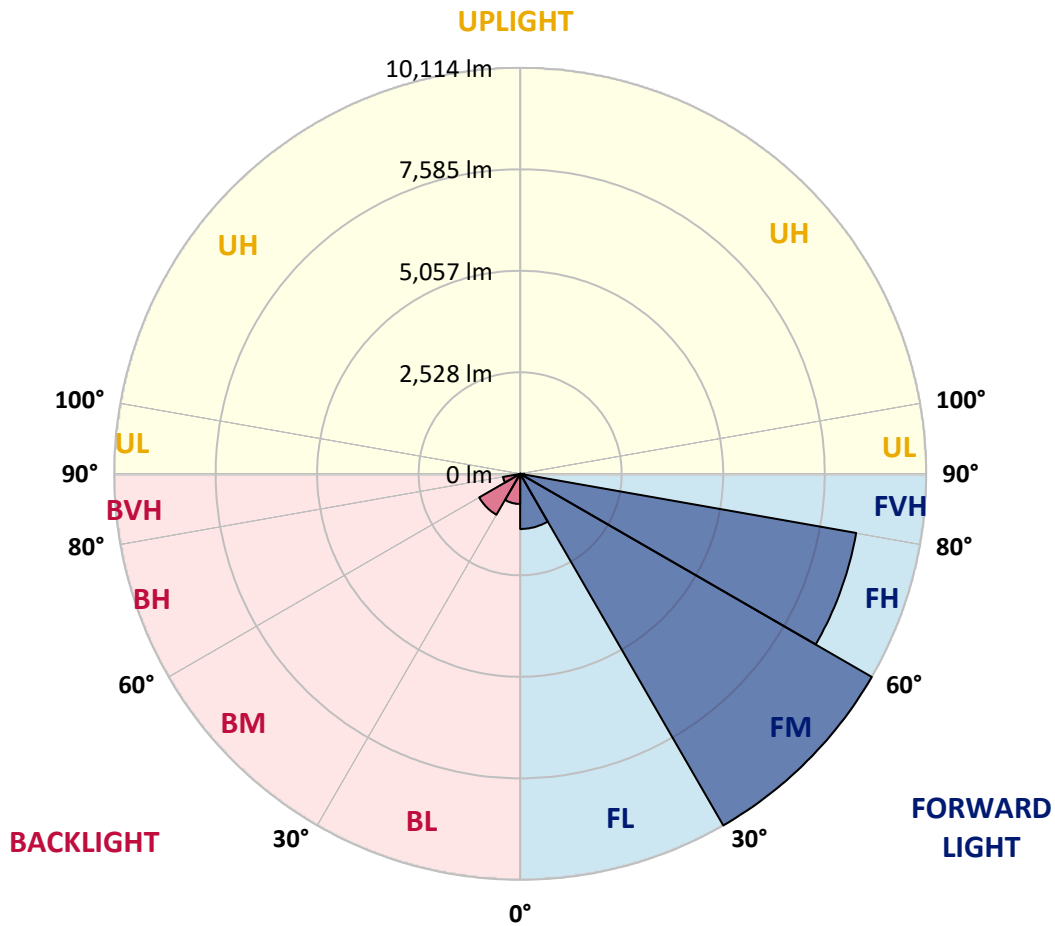
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.7	6.1			
FM (30°-60°)	10113.8	45.0			
FH (60°-80°)	8498.8	37.9			G4/12000
FVH (80°-90°)	98.9	0.4			G1/100
BL (0°-30°)	752.0	3.3	B2/1000		
BM (30°-60°)	1178.2	5.2	B2/2500		
BH (60°-80°)	433.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
2.5°	3288.2	3317.9	3313.7	3333.5	3340.6	3369.0	3397.3	3435.6	3478.2	3476.7
5°	3102.4	3132.2	3139.3	3166.2	3200.2	3244.2	3302.3	3378.9	3458.3	3471.1
7.5°	2882.6	2913.8	2932.3	2986.1	3048.5	3139.3	3234.3	3346.3	3478.2	3496.6
10°	2662.9	2691.2	2715.3	2791.9	2891.1	3025.8	3180.4	3342.0	3519.3	3546.2
12.5°	2526.7	2553.7	2580.6	2647.3	2770.6	2935.1	3144.9	3361.9	3587.3	3625.6
15°	2478.5	2502.6	2523.9	2583.5	2698.3	2885.5	3137.9	3403.0	3673.8	3724.9
17.5°	2485.6	2498.4	2512.6	2557.9	2669.9	2862.8	3150.6	3473.9	3775.9	3821.3
20°	2526.7	2533.8	2535.2	2566.4	2665.7	2859.9	3176.1	3542.0	3872.3	3933.3
22.5°	2579.2	2582.0	2579.2	2600.5	2692.6	2881.2	3210.2	3624.2	3980.1	4036.8
25°	2824.5	2770.6	2702.6	2661.4	2738.0	2922.3	3261.2	3734.8	4097.8	4153.1
27.5°	3585.9	3431.4	3187.5	2913.8	2831.6	2981.9	3332.1	3846.8	4216.9	4266.5
30°	4822.3	4619.6	4205.6	3588.8	3132.2	3106.7	3424.3	3958.8	4343.1	4397.0
32.5°	6061.6	6012.0	5534.1	4680.6	3808.5	3384.6	3577.4	4110.6	4510.4	4552.9
35°	7315.0	7214.4	6823.0	5979.4	4850.7	3950.3	3832.6	4309.1	4730.2	4778.4
37.5°	8275.0	8214.0	7971.5	7276.8	6087.1	4823.8	4269.4	4616.7	5049.2	5103.1
40°	9122.9	9094.5	9012.3	8554.3	7469.6	5966.6	4948.5	5093.2	5491.6	5555.4
42.5°	9789.3	9856.0	9902.8	9775.1	8894.6	7271.1	5861.7	5762.4	6108.4	6173.6
45°	10471.3	10494.0	10682.6	10866.9	10309.7	8635.1	6891.1	6546.5	6875.5	6956.3
47.5°	10909.5	11000.2	11332.0	11656.7	11499.3	9987.8	7997.1	7472.4	7764.5	7916.2
50°	10942.1	11113.7	11570.2	12136.0	12365.7	11275.3	9199.5	8527.4	8837.9	9005.2
52.5°	10399.0	10665.6	11373.1	12201.2	12833.6	12365.7	10443.0	9582.3	9980.7	10199.1
55°	7973.0	8321.8	10631.6	11846.7	12852.0	13192.3	11653.9	10681.2	11254.0	11500.7
57.5°	6946.4	7122.2	8358.6	11231.3	12510.3	13525.5	12748.5	11727.6	12639.3	12945.6
60°	5779.4	6010.6	7010.2	10224.6	12046.6	13558.2	13715.5	13077.5	14140.9	14485.5
62.5°	3927.6	4178.6	5172.6	8494.8	11412.8	13542.6	14508.2	14467.0	15809.8	16179.9
65°	2433.2	2590.5	3245.6	6936.5	10526.6	13559.6	15337.6	16154.4	17570.9	17946.6
67.5°	1922.7	1995.0	2336.7	5325.7	8999.5	13176.7	16165.7	17741.0	19228.4	19526.2
70°	1291.7	1335.7	1700.1	3570.3	6695.4	11410.0	16150.1	18537.9	20082.0	20230.9
72.5°	680.6	714.6	994.0	1653.3	4043.9	8110.5	13613.5	17585.0	19232.7	19008.6
75°	340.3	397.0	669.3	839.4	1727.0	4523.2	8453.6	13864.4	15137.7	14269.9
77.5°	258.1	311.9	553.0	553.0	601.2	1522.8	3580.2	7561.8	6974.7	5807.8
80°	164.5	212.7	483.5	418.3	251.0	387.1	933.0	2118.4	1481.7	1127.2
82.5°	96.4	139.0	402.7	276.5	140.4	143.2	263.7	450.9	384.3	299.2
85°	38.3	90.7	276.5	109.2	55.3	35.4	79.4	96.4	79.4	59.6
87.5°	0.0	21.3	48.2	0.0	4.3	2.8	5.7	7.1	7.1	5.7
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°
3502.3	0°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
3505.1	2.5°	3517.9	3520.7	3529.2	3530.6	3510.8	3485.2	3475.3	3471.1	3454.1	3452.6
3527.8	5°	3560.4	3573.2	3560.4	3523.5	3435.6	3312.3	3218.7	3142.1	3072.6	3051.4
3605.8	7.5°	3645.5	3658.2	3619.9	3475.3	3254.1	3008.8	2787.6	2631.7	2491.3	2438.8
3700.8	10°	3767.4	3784.4	3663.9	3371.8	2980.5	2586.3	2212.0	1948.2	1742.6	1659.0
3829.8	12.5°	3920.5	3927.6	3688.0	3214.4	2624.6	2061.7	1531.4	1249.2	1066.3	998.2
3985.8	15°	4089.3	4079.4	3690.8	3000.3	2139.6	1457.6	999.6	821.0	747.2	724.6
4141.7	17.5°	4266.5	4225.4	3634.1	2691.2	1607.9	996.8	741.6	699.0	686.3	680.6
4296.3	20°	4440.9	4348.8	3530.6	2287.1	1154.2	744.4	673.5	660.8	653.7	650.8
4452.3	22.5°	4599.7	4442.3	3353.4	1817.8	838.0	657.9	636.6	625.3	612.5	606.9
4604.0	25°	4754.3	4496.2	3103.8	1379.6	670.7	615.4	598.4	577.1	560.1	553.0
4767.0	27.5°	4904.6	4530.3	2791.9	1020.9	598.4	575.7	544.5	514.7	501.9	499.1
4941.5	30°	5064.8	4541.6	2437.4	761.4	554.4	526.0	480.7	446.6	439.6	441.0
5176.8	32.5°	5260.5	4558.6	2080.1	623.9	517.5	466.5	412.6	377.2	371.5	377.2
5520.0	35°	5494.4	4592.6	1735.5	574.3	484.9	405.5	347.4	317.6	311.9	316.2
5959.5	37.5°	5812.1	4647.9	1413.7	564.3	458.0	354.5	292.1	268.0	268.0	269.4
6498.3	40°	6234.6	4795.4	1125.8	557.2	443.8	316.2	246.7	236.8	241.0	243.9
7184.6	42.5°	6749.3	5108.8	931.6	548.7	428.2	299.2	224.0	219.8	226.9	229.7
8007.0	45°	7326.4	5505.8	863.5	534.6	414.0	310.5	214.1	208.4	216.9	218.4
8928.6	47.5°	7923.3	5894.3	855.0	519.0	399.9	327.5	211.3	198.5	208.4	209.9
9912.7	50°	8527.4	6148.1	863.5	494.9	377.2	327.5	212.7	188.6	197.1	201.3
10933.6	52.5°	9135.7	6264.4	857.8	442.4	337.5	307.7	212.7	180.1	188.6	191.4
12036.7	55°	9725.5	6241.7	771.3	364.4	286.4	272.2	207.0	173.0	178.7	180.1
13078.9	57.5°	10192.0	5925.5	611.1	283.6	232.5	226.9	188.6	164.5	168.7	167.3
14034.6	60°	10435.9	5230.7	436.7	218.4	182.9	178.7	165.9	153.1	156.0	148.9
14844.2	62.5°	10438.7	4311.9	292.1	173.0	146.0	141.8	141.8	137.5	134.7	120.5
15470.9	65°	10216.1	3292.4	194.3	137.5	117.7	110.6	119.1	117.7	107.8	87.9
15662.3	67.5°	9711.3	2158.1	147.5	107.8	90.7	86.5	95.0	99.3	92.2	73.7
14964.7	70°	8673.4	1256.3	121.9	83.7	68.1	63.8	76.6	85.1	76.6	59.6
12791.1	72.5°	7204.5	677.8	99.3	62.4	46.8	42.5	61.0	69.5	61.0	44.0
8206.9	75°	4674.9	363.0	76.6	41.1	24.1	26.9	45.4	51.0	42.5	28.4
2409.0	77.5°	1569.6	160.2	48.2	19.9	11.3	11.3	26.9	31.2	19.9	9.9
438.1	80°	350.2	66.6	19.9	8.5	4.3	4.3	5.7	5.7	2.8	0.0
134.7	82.5°	114.9	26.9	8.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
34.0	85°	44.0	9.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	17.0	1.4	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>
3502.3
3455.5
3038.6
2417.6
1623.5
976.9
724.6
679.2
648.0
605.5
550.2
496.3
441.0
375.7
314.8
268.0
243.9
229.7
219.8
211.3
202.8
191.4
180.1
167.3
147.5
116.3
85.1
72.3
56.7
42.5
25.5
8.5
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