

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: P956607

Luminaire Tested: **GALN-SB9A-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956607  
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-SB9A-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

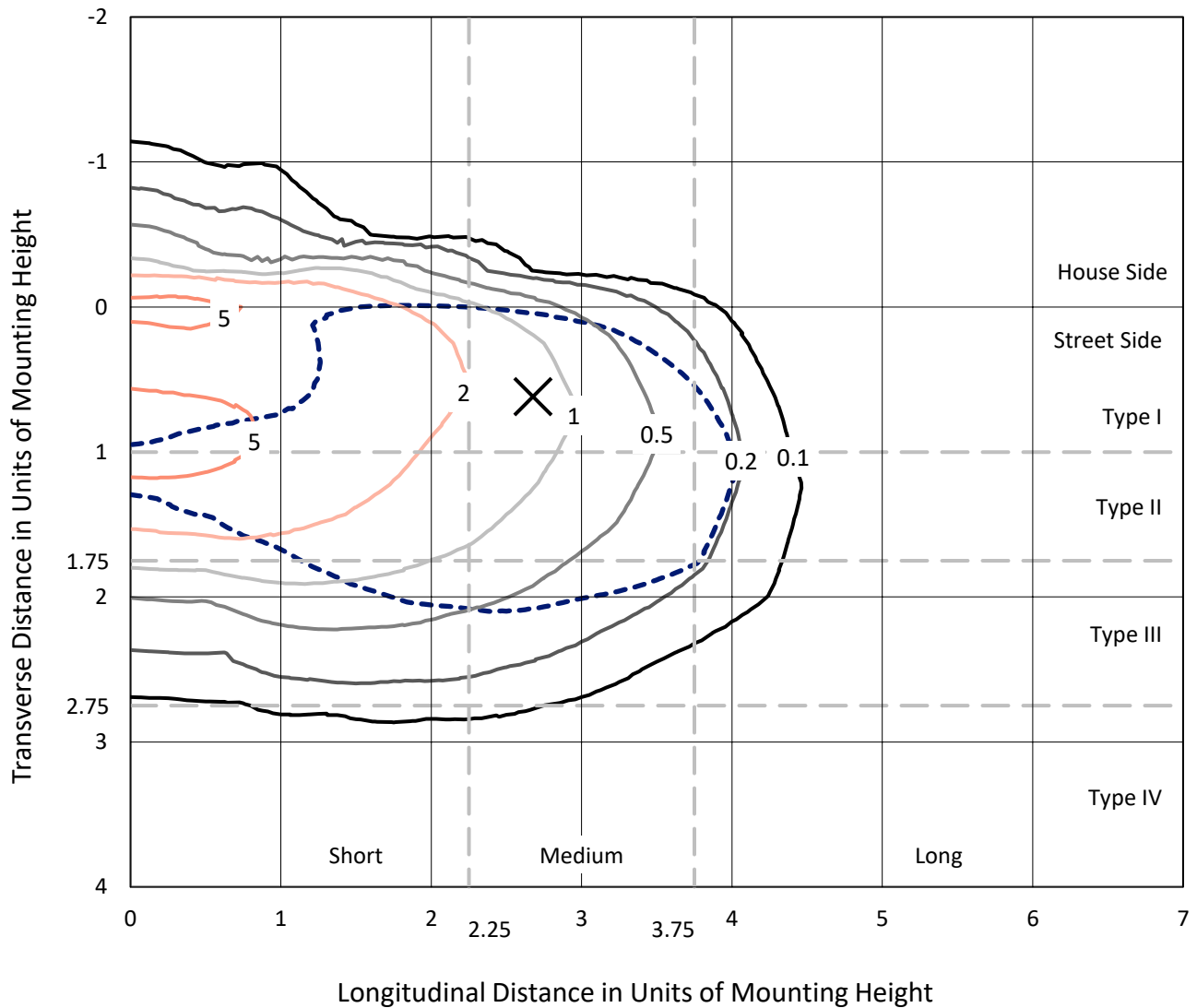
Lumens per Lamp: N/A  
Luminaire Lumens: 23663 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

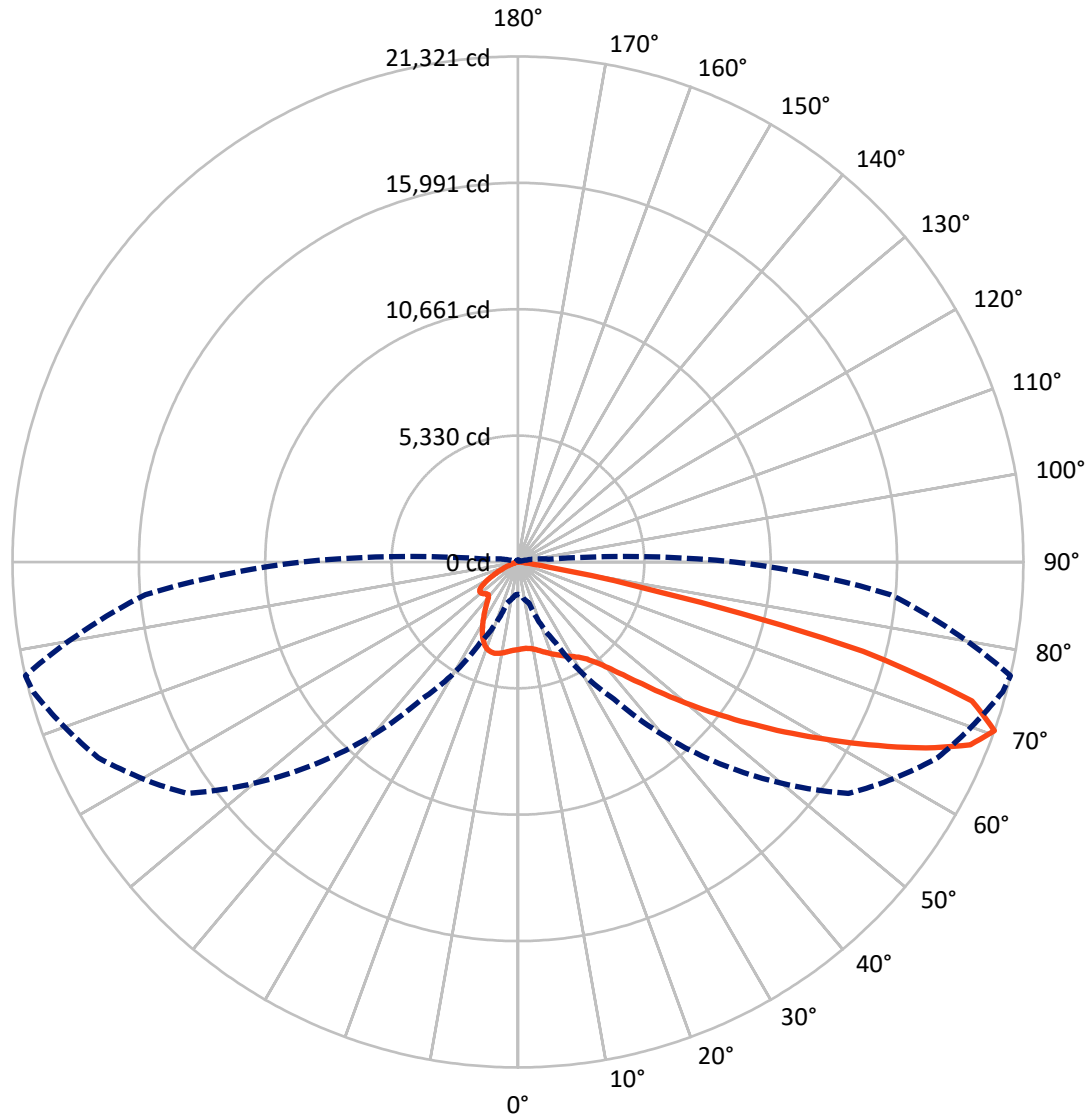
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2494.4	0.0	2494.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21168.6	0.0	21168.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	23663.0	0.0	23663.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.1	1.3
10°-20°	755.1	3.2
20°-30°	1168.0	4.9
30°-40°	2119.4	9.0
40°-50°	4000.6	16.9
50°-60°	5780.6	24.4
60°-70°	6153.3	26.0
70°-80°	3260.8	13.8
80°-90°	107.1	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°	23663.0	100.0
0°-180°	23663.0	100.0



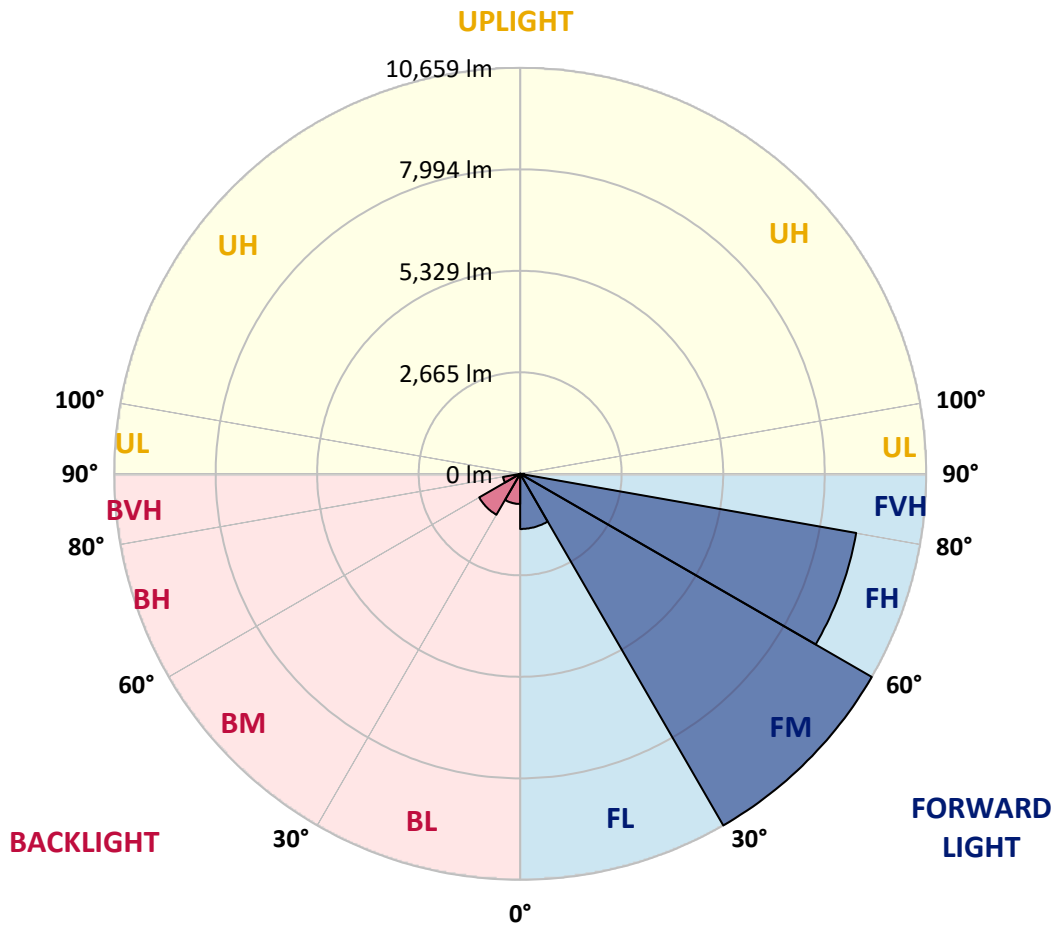
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.7	6.1			
FM (30°-60°)	10658.9	45.0			
FH (60°-80°)	8956.8	37.9			G4/12000
FVH (80°-90°)	104.2	0.4			G2/225
BL (0°-30°)	792.5	3.3	B2/1000		
BM (30°-60°)	1241.7	5.2	B2/2500		
BH (60°-80°)	457.3	1.9	B1/500		G1/500
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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0
2.5°	3465.4	3496.7	3492.3	3513.2	3520.6	3550.5	3580.4	3620.8	3665.6	3664.1
5°	3269.6	3301.0	3308.5	3336.8	3372.7	3419.0	3480.3	3561.0	3644.7	3658.1
7.5°	3038.0	3070.9	3090.3	3147.1	3212.8	3308.5	3408.6	3526.6	3665.6	3685.0
10°	2806.4	2836.2	2861.6	2942.3	3046.9	3188.9	3351.8	3522.1	3708.9	3737.3
12.5°	2662.9	2691.3	2719.7	2789.9	2919.9	3093.3	3314.4	3543.1	3780.7	3821.0
15°	2612.1	2637.5	2659.9	2722.7	2843.7	3041.0	3307.0	3586.4	3871.8	3925.6
17.5°	2619.6	2633.0	2648.0	2695.8	2813.8	3017.1	3320.4	3661.1	3979.4	4027.2
20°	2662.9	2670.4	2671.9	2704.7	2809.3	3014.1	3347.3	3732.8	4081.0	4145.3
22.5°	2718.2	2721.2	2718.2	2740.6	2837.7	3036.5	3383.2	3819.5	4194.6	4254.4
25°	2976.7	2919.9	2848.2	2804.9	2885.6	3079.8	3437.0	3936.1	4318.6	4376.9
27.5°	3779.2	3616.3	3359.3	3070.9	2984.2	3142.6	3511.7	4054.1	4444.1	4496.4
30°	5082.2	4868.5	4432.2	3782.2	3301.0	3274.1	3608.8	4172.2	4577.1	4633.9
32.5°	6388.3	6336.0	5832.4	4932.8	4013.8	3567.0	3770.2	4332.1	4753.5	4798.3
35°	7709.3	7603.2	7190.7	6301.6	5112.1	4163.2	4039.2	4541.3	4985.1	5035.9
37.5°	8720.9	8656.7	8401.1	7668.9	6415.2	5083.7	4499.4	4865.5	5321.3	5378.1
40°	9614.5	9584.6	9498.0	9015.3	7872.1	6288.2	5215.2	5367.6	5787.5	5854.8
42.5°	10316.9	10387.1	10436.4	10301.9	9373.9	7662.9	6177.6	6073.0	6437.6	6506.3
45°	11035.6	11059.6	11258.3	11452.6	10865.3	9100.5	7262.5	6899.3	7246.0	7331.2
47.5°	11497.4	11593.0	11942.7	12284.9	12119.0	10526.1	8428.0	7875.1	8183.0	8342.9
50°	11531.8	11712.6	12193.8	12790.0	13032.1	11882.9	9695.2	8986.9	9314.2	9490.5
52.5°	10959.4	11240.4	11986.0	12858.7	13525.2	13032.1	11005.8	10098.7	10518.6	10748.7
55°	8402.6	8770.2	11204.5	12485.1	13544.6	13903.3	12281.9	11256.8	11860.5	12120.5
57.5°	7320.7	7506.0	8809.1	11836.6	13184.5	14254.4	13435.5	12359.6	13320.5	13643.3
60°	6090.9	6334.5	7388.0	10775.6	12695.8	14288.8	14454.7	13782.2	14903.0	15266.1
62.5°	4139.3	4403.8	5451.3	8952.5	12027.9	14272.4	15290.0	15246.7	16661.8	17051.8
65°	2564.3	2730.1	3420.5	7310.3	11093.9	14290.3	16164.2	17024.9	18517.8	18913.8
67.5°	2026.3	2102.5	2462.7	5612.7	9484.5	13886.8	17036.9	18697.1	20264.6	20578.4
70°	1361.3	1407.7	1791.7	3762.7	7056.2	12024.9	17020.4	19536.9	21164.2	21321.1
72.5°	717.3	753.1	1047.5	1742.4	4261.8	8547.6	14347.1	18532.7	20269.1	20033.0
75°	358.6	418.4	705.3	884.6	1820.1	4766.9	8909.2	14611.6	15953.5	15039.0
77.5°	272.0	328.8	582.8	582.8	633.6	1604.9	3773.2	7969.3	7350.6	6120.8
80°	173.3	224.1	509.6	440.8	264.5	408.0	983.3	2232.5	1561.6	1188.0
82.5°	101.6	146.4	424.4	291.4	147.9	150.9	277.9	475.2	405.0	315.3
85°	40.3	95.6	291.4	115.1	58.3	37.4	83.7	101.6	83.7	62.8
87.5°	0.0	22.4	50.8	0.0	4.5	3.0	6.0	7.5	7.5	6.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3691.0	0°	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0
3694.0	2.5°	3707.4	3710.4	3719.4	3720.9	3700.0	3673.1	3662.6	3658.1	3640.2	3638.7
3717.9	5°	3752.3	3765.7	3752.3	3713.4	3620.8	3490.8	3392.1	3311.4	3238.2	3215.8
3800.1	7.5°	3841.9	3855.4	3815.0	3662.6	3429.5	3171.0	2937.9	2773.5	2625.5	2570.3
3900.2	10°	3970.4	3988.4	3861.4	3553.5	3141.1	2725.7	2331.2	2053.2	1836.5	1748.4
4036.2	12.5°	4131.8	4139.3	3886.8	3387.7	2766.0	2172.8	1613.9	1316.5	1123.7	1052.0
4200.6	15°	4309.7	4299.2	3889.7	3162.0	2254.9	1536.2	1053.5	865.2	787.5	763.6
4364.9	17.5°	4496.4	4453.1	3830.0	2836.2	1694.6	1050.5	781.5	736.7	723.3	717.3
4527.8	20°	4680.2	4583.1	3720.9	2410.4	1216.4	784.5	709.8	696.4	688.9	685.9
4692.2	22.5°	4847.6	4681.7	3534.1	1915.7	883.2	693.4	671.0	659.0	645.6	639.6
4852.1	25°	5010.5	4738.5	3271.1	1454.0	706.8	648.5	630.6	608.2	590.3	582.8
5023.9	27.5°	5168.9	4774.4	2942.3	1075.9	630.6	606.7	573.8	542.4	529.0	526.0
5207.7	30°	5337.8	4786.3	2568.8	802.5	584.3	554.4	506.6	470.7	463.2	464.7
5455.8	32.5°	5544.0	4804.3	2192.2	657.5	545.4	491.6	434.9	397.5	391.5	397.5
5817.4	35°	5790.5	4840.1	1829.1	605.2	511.1	427.4	366.1	334.7	328.8	333.2
6280.7	37.5°	6125.3	4898.4	1489.8	594.7	482.7	373.6	307.8	282.4	282.4	283.9
6848.5	40°	6570.6	5053.8	1186.5	587.3	467.7	333.2	260.0	249.6	254.0	257.0
7571.8	42.5°	7113.0	5384.1	981.8	578.3	451.3	315.3	236.1	231.6	239.1	242.1
8438.5	45°	7721.2	5802.5	910.0	563.4	436.3	327.3	225.6	219.7	228.6	230.1
9409.8	47.5°	8350.3	6211.9	901.1	546.9	421.4	345.2	222.7	209.2	219.7	221.2
10446.9	50°	8986.9	6479.4	910.0	521.5	397.5	345.2	224.1	198.7	207.7	212.2
11522.8	52.5°	9628.0	6602.0	904.1	466.2	355.7	324.3	224.1	189.8	198.7	201.7
12685.4	55°	10249.6	6578.1	812.9	384.0	301.9	286.9	218.2	182.3	188.3	189.8
13783.7	57.5°	10741.3	6244.8	644.1	298.9	245.1	239.1	198.7	173.3	177.8	176.3
14790.9	60°	10998.3	5512.6	460.3	230.1	192.8	188.3	174.8	161.4	164.4	156.9
15644.2	62.5°	11001.3	4544.3	307.8	182.3	153.9	149.4	149.4	145.0	142.0	127.0
16304.7	65°	10766.7	3469.8	204.7	145.0	124.0	116.6	125.5	124.0	113.6	92.6
16506.4	67.5°	10234.7	2274.4	155.4	113.6	95.6	91.2	100.1	104.6	97.1	77.7
15771.2	70°	9140.8	1324.0	128.5	88.2	71.7	67.2	80.7	89.7	80.7	62.8
13480.4	72.5°	7592.7	714.3	104.6	65.8	49.3	44.8	64.3	73.2	64.3	46.3
8649.2	75°	4926.8	382.5	80.7	43.3	25.4	28.4	47.8	53.8	44.8	29.9
2538.9	77.5°	1654.2	168.9	50.8	20.9	12.0	12.0	28.4	32.9	20.9	10.5
461.7	80°	369.1	70.2	20.9	9.0	4.5	4.5	6.0	6.0	3.0	0.0
142.0	82.5°	121.0	28.4	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
35.9	85°	46.3	10.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	17.9	1.5	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>
3691.0
3641.7
3202.4
2547.8
1711.0
1029.6
763.6
715.8
682.9
638.1
579.8
523.0
464.7
396.0
331.7
282.4
257.0
242.1
231.6
222.7
213.7
201.7
189.8
176.3
155.4
122.5
89.7
76.2
59.8
44.8
26.9
9.0
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