

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: P955893

Luminaire Tested: **GALN-SB8C-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955893
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-SB8C-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 35073 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

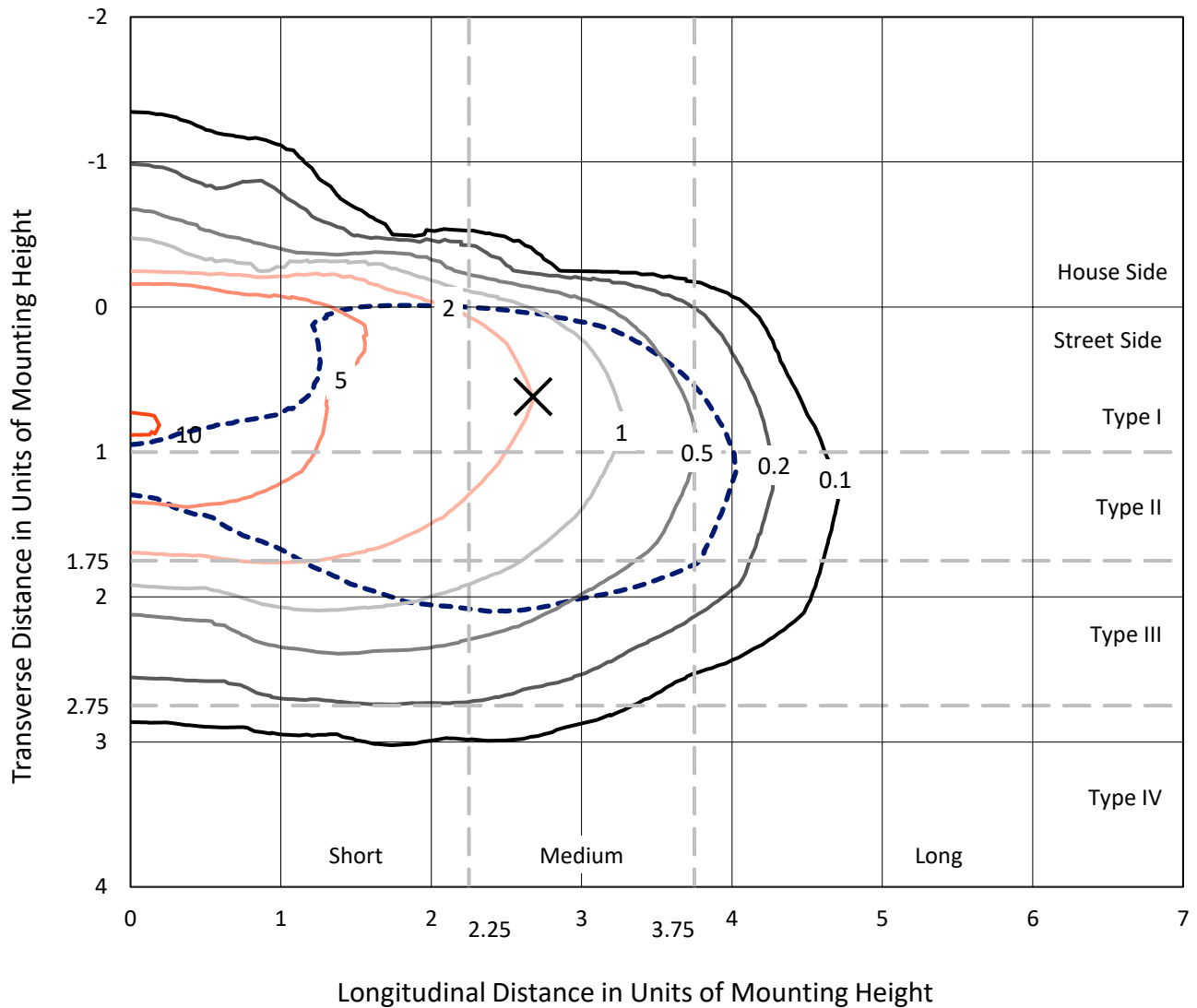
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

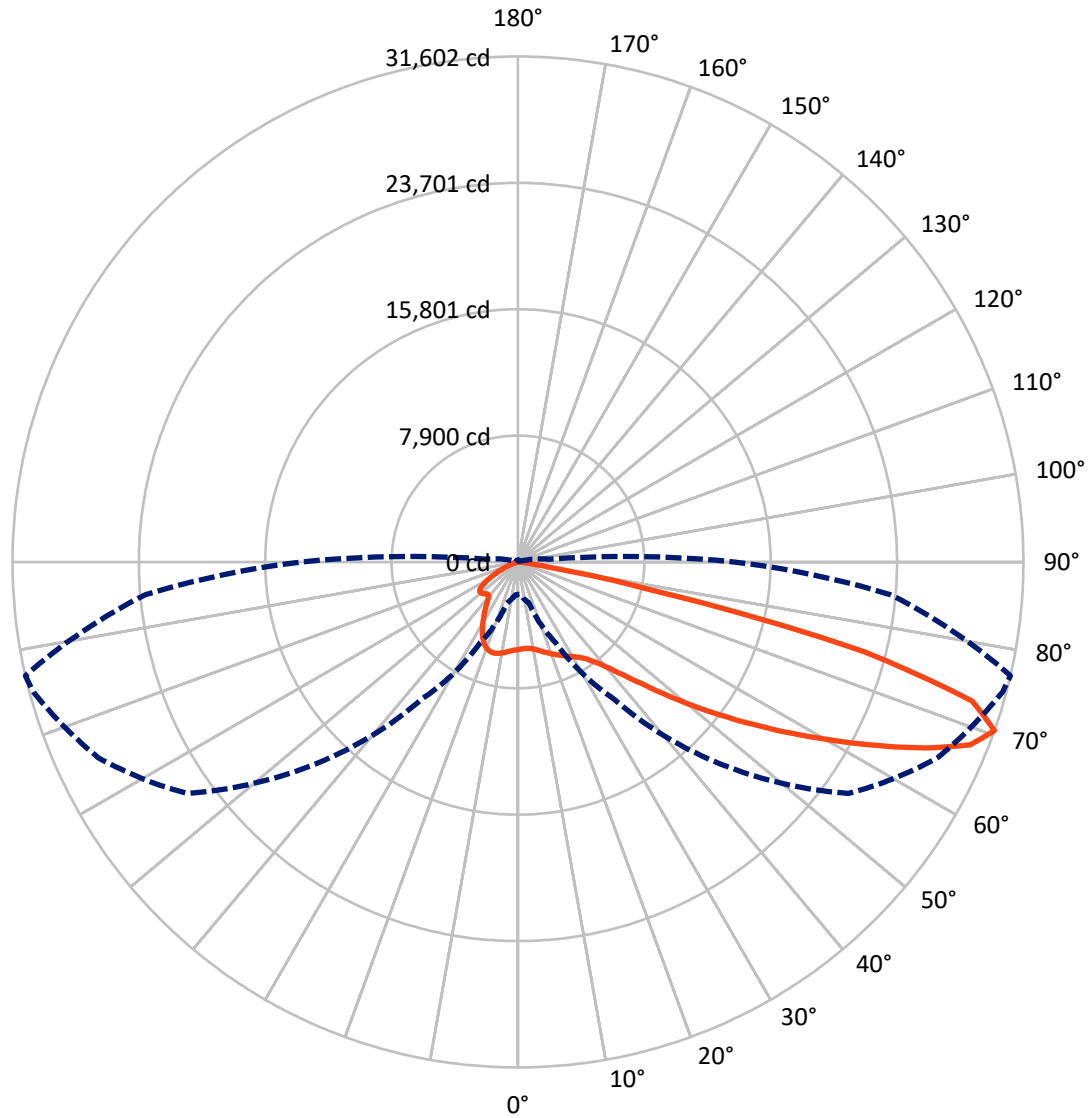
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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
House Side	Lumens	3697.2	0.0	3697.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31375.8	0.0	31375.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	35073.0	0.0	35073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.5	1.3
10°-20°	1119.3	3.2
20°-30°	1731.2	4.9
30°-40°	3141.4	9.0
40°-50°	5929.7	16.9
50°-60°	8567.9	24.4
60°-70°	9120.3	26.0
70°-80°	4833.1	13.8
80°-90°	158.7	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°	35073.0	100.0
0°-180°	35073.0	100.0



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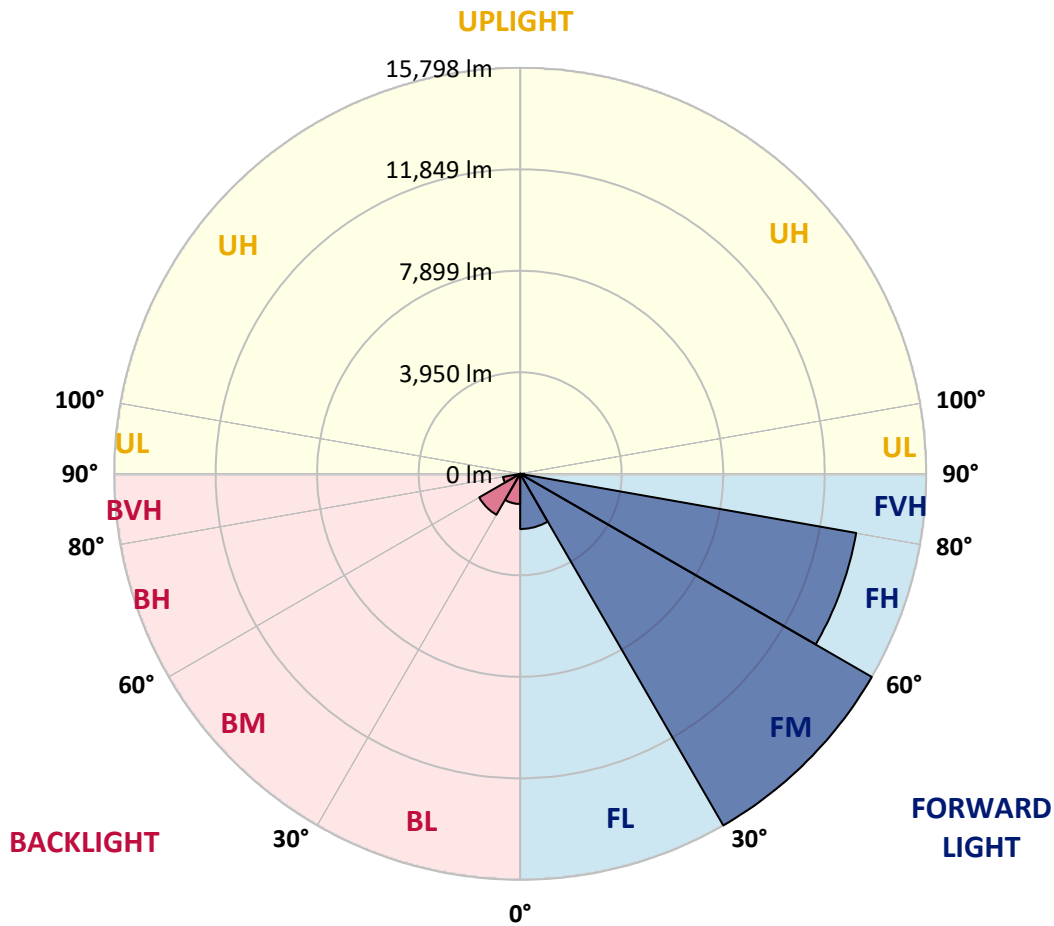
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.3	6.1			
FM (30°-60°)	15798.4	45.0			
FH (60°-80°)	13275.6	37.9			G5
FVH (80°-90°)	154.4	0.4			G2/225
BL (0°-30°)	1174.7	3.3	B3/2500		
BM (30°-60°)	1840.5	5.2	B2/2500		
BH (60°-80°)	677.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8
2.5°	5136.3	5182.8	5176.2	5207.2	5218.3	5262.6	5306.9	5366.7	5433.1	5430.9
5°	4846.2	4892.7	4903.7	4945.8	4999.0	5067.6	5158.5	5278.1	5402.1	5422.0
7.5°	4502.9	4551.6	4580.4	4664.5	4762.0	4903.7	5052.1	5227.1	5433.1	5461.9
10°	4159.5	4203.8	4241.5	4361.1	4516.1	4726.6	4968.0	5220.5	5497.3	5539.4
12.5°	3946.9	3989.0	4031.1	4135.2	4327.9	4584.8	4912.6	5251.5	5603.6	5663.4
15°	3871.6	3909.3	3942.5	4035.5	4214.9	4507.3	4901.5	5315.7	5738.8	5818.5
17.5°	3882.7	3902.6	3924.8	3995.6	4170.6	4471.8	4921.5	5426.5	5898.2	5969.1
20°	3946.9	3958.0	3960.2	4008.9	4164.0	4467.4	4961.3	5532.8	6048.8	6144.1
22.5°	4028.9	4033.3	4028.9	4062.1	4206.1	4500.6	5014.5	5661.2	6217.2	6305.8
25°	4412.0	4327.9	4221.6	4157.3	4276.9	4564.9	5094.2	5834.0	6401.0	6487.4
27.5°	5601.4	5360.0	4979.1	4551.6	4423.1	4657.9	5205.0	6009.0	6587.1	6664.6
30°	7532.8	7216.1	6569.3	5605.9	4892.7	4852.8	5348.9	6183.9	6784.2	6868.3
32.5°	9468.6	9391.1	8644.7	7311.3	5949.2	5286.9	5588.1	6420.9	7045.5	7112.0
35°	11426.6	11269.3	10658.0	9340.2	7577.1	6170.7	5986.8	6731.0	7388.8	7464.1
37.5°	12926.0	12830.8	12452.1	11366.8	9508.5	7535.0	6669.0	7211.7	7887.2	7971.4
40°	14250.5	14206.2	14077.8	13362.4	11668.0	9320.2	7729.9	7955.9	8578.2	8677.9
42.5°	15291.5	15395.6	15468.7	15269.4	13893.9	11357.9	9156.3	9001.3	9541.7	9643.6
45°	16356.9	16392.3	16686.9	16974.8	16104.4	13488.6	10764.3	10226.1	10740.0	10866.2
47.5°	17041.3	17183.0	17701.3	18208.5	17962.7	15601.6	12491.9	11672.4	12128.7	12365.7
50°	17092.2	17360.2	18073.4	18957.2	19316.0	17612.7	14370.1	13320.3	13805.3	14066.7
52.5°	16243.9	16660.3	17765.6	19059.0	20046.9	19316.0	16312.6	14968.2	15590.5	15931.6
55°	12454.3	12999.1	16607.2	18505.3	20075.7	20607.2	18204.1	16684.7	17579.5	17964.9
57.5°	10850.7	11125.3	13056.7	17544.1	19541.9	21127.7	19914.0	18319.3	19743.4	20221.9
60°	9027.9	9388.9	10950.4	15971.5	18817.6	21178.7	21424.5	20427.8	22089.0	22627.2
62.5°	6135.2	6527.3	8079.9	13269.3	17827.6	21154.3	22662.7	22598.4	24695.9	25274.0
65°	3800.7	4046.6	5069.9	10835.2	16443.3	21180.9	23958.4	25234.1	27446.8	28033.7
67.5°	3003.4	3116.3	3650.1	8319.1	14057.8	20582.9	25251.9	27712.6	30036.0	30501.1
70°	2017.8	2086.4	2655.6	5577.1	10458.7	17823.1	25227.5	28957.3	31369.4	31601.9
72.5°	1063.1	1116.3	1552.6	2582.6	6316.8	12669.1	21265.1	27468.9	30042.6	29692.7
75°	531.6	620.2	1045.4	1311.2	2697.7	7065.5	13205.1	21657.1	23646.1	22290.6
77.5°	403.1	487.3	863.8	863.8	939.1	2378.8	5592.6	11812.0	10895.0	9072.2
80°	256.9	332.2	755.3	653.4	392.0	604.7	1457.4	3309.0	2314.6	1760.8
82.5°	150.6	217.1	629.0	431.9	219.3	223.7	412.0	704.3	600.2	467.3
85°	59.8	141.8	431.9	170.5	86.4	55.4	124.0	150.6	124.0	93.0
87.5°	0.0	33.2	75.3	0.0	6.6	4.4	8.9	11.1	11.1	8.9
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°
5470.8	0°	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8
5475.2	2.5°	5495.1	5499.5	5512.8	5515.1	5484.0	5444.2	5428.7	5422.0	5395.4	5393.2
5510.6	5°	5561.6	5581.5	5561.6	5504.0	5366.7	5174.0	5027.8	4908.2	4799.6	4766.4
5632.4	7.5°	5694.5	5714.4	5654.6	5428.7	5083.2	4700.0	4354.5	4110.8	3891.5	3809.6
5780.8	10°	5884.9	5911.5	5723.3	5267.0	4655.7	4039.9	3455.2	3043.2	2722.1	2591.4
5982.4	12.5°	6124.1	6135.2	5760.9	5021.1	4099.7	3220.4	2392.1	1951.3	1665.6	1559.3
6226.0	15°	6387.7	6372.2	5765.3	4686.7	3342.3	2276.9	1561.5	1282.4	1167.2	1131.8
6469.7	17.5°	6664.6	6600.3	5676.7	4203.8	2511.7	1557.1	1158.4	1091.9	1072.0	1063.1
6711.1	20°	6937.0	6793.0	5515.1	3572.6	1802.9	1162.8	1052.1	1032.1	1021.1	1016.6
6954.7	22.5°	7185.1	6939.2	5238.2	2839.5	1309.0	1027.7	994.5	976.8	956.8	948.0
7191.7	25°	7426.5	7023.4	4848.4	2155.1	1047.6	961.3	934.7	901.5	874.9	863.8
7446.4	27.5°	7661.3	7076.5	4361.1	1594.7	934.7	899.2	850.5	804.0	784.1	779.6
7718.9	30°	7911.6	7094.3	3807.4	1189.4	866.0	821.7	750.8	697.7	686.6	688.8
8086.5	32.5°	8217.2	7120.8	3249.2	974.5	808.4	728.7	644.5	589.2	580.3	589.2
8622.5	35°	8582.7	7174.0	2711.0	897.0	757.5	633.5	542.6	496.1	487.3	493.9
9309.1	37.5°	9078.8	7260.4	2208.2	881.5	715.4	553.7	456.3	418.6	418.6	420.8
10150.8	40°	9738.8	7490.7	1758.6	870.4	693.3	493.9	385.4	369.9	376.5	381.0
11222.8	42.5°	10542.8	7980.2	1455.2	857.2	668.9	467.3	350.0	343.3	354.4	358.8
12507.4	45°	11444.3	8600.4	1348.9	835.0	646.7	485.1	334.4	325.6	338.9	341.1
13947.1	47.5°	12376.8	9207.3	1335.6	810.6	624.6	511.6	330.0	310.1	325.6	327.8
15484.2	50°	13320.3	9603.7	1348.9	773.0	589.2	511.6	332.2	294.6	307.9	314.5
17078.9	52.5°	14270.5	9785.3	1340.0	691.0	527.1	480.6	332.2	281.3	294.6	299.0
18802.1	55°	15191.9	9749.9	1204.9	569.2	447.4	425.3	323.4	270.2	279.1	281.3
20430.1	57.5°	15920.6	9256.0	954.6	443.0	363.2	354.4	294.6	256.9	263.6	261.4
21922.9	60°	16301.5	8170.7	682.2	341.1	285.7	279.1	259.1	239.2	243.6	232.6
23187.6	62.5°	16305.9	6735.5	456.3	270.2	228.1	221.5	221.5	214.8	210.4	188.3
24166.6	65°	15958.2	5143.0	303.4	214.8	183.8	172.8	186.0	183.8	168.3	137.3
24465.6	67.5°	15169.7	3371.0	230.3	168.3	141.8	135.1	148.4	155.0	144.0	115.2
23375.8	70°	13548.4	1962.4	190.5	130.7	106.3	99.7	119.6	132.9	119.6	93.0
19980.4	72.5°	11253.8	1058.7	155.0	97.5	73.1	66.4	95.2	108.5	95.2	68.7
12819.7	75°	7302.5	567.0	119.6	64.2	37.7	42.1	70.9	79.7	66.4	44.3
3763.1	77.5°	2451.9	250.3	75.3	31.0	17.7	17.7	42.1	48.7	31.0	15.5
684.4	80°	547.1	104.1	31.0	13.3	6.6	6.6	8.9	8.9	4.4	0.0
210.4	82.5°	179.4	42.1	13.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
53.2	85°	68.7	15.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.7	87.5°	26.6	2.2	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>
5470.8
5397.7
4746.5
3776.4
2536.0
1526.1
1131.8
1060.9
1012.2
945.8
859.4
775.2
688.8
586.9
491.7
418.6
381.0
358.8
343.3
330.0
316.7
299.0
281.3
261.4
230.3
181.6
132.9
113.0
88.6
66.4
39.9
13.3
0.0
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