

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: P956775

Luminaire Tested: **GALN-SB9B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956775
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-SB9B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA 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: 37131 lumens
Efficiency: N/A
Efficacy: 112.7 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

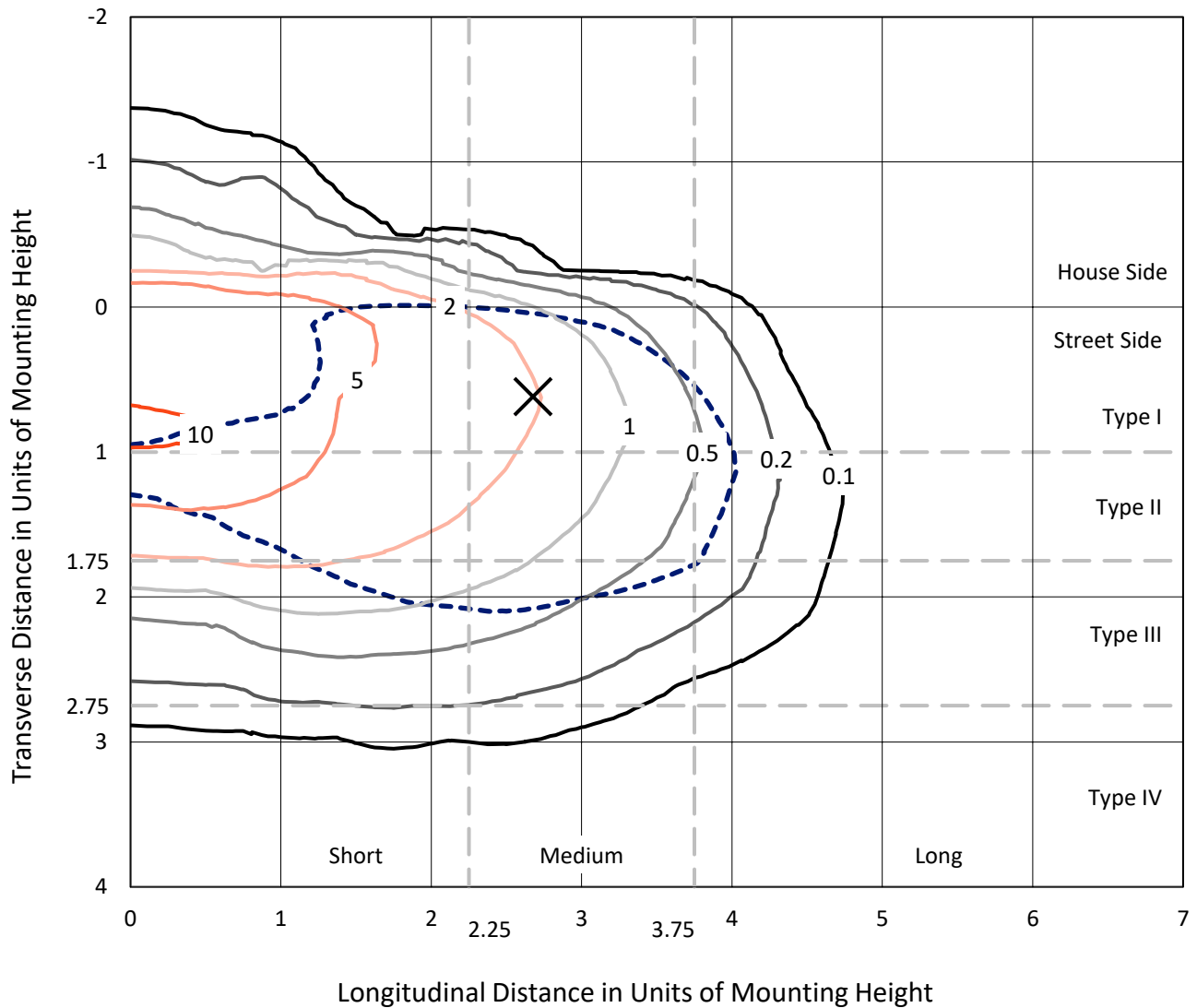
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

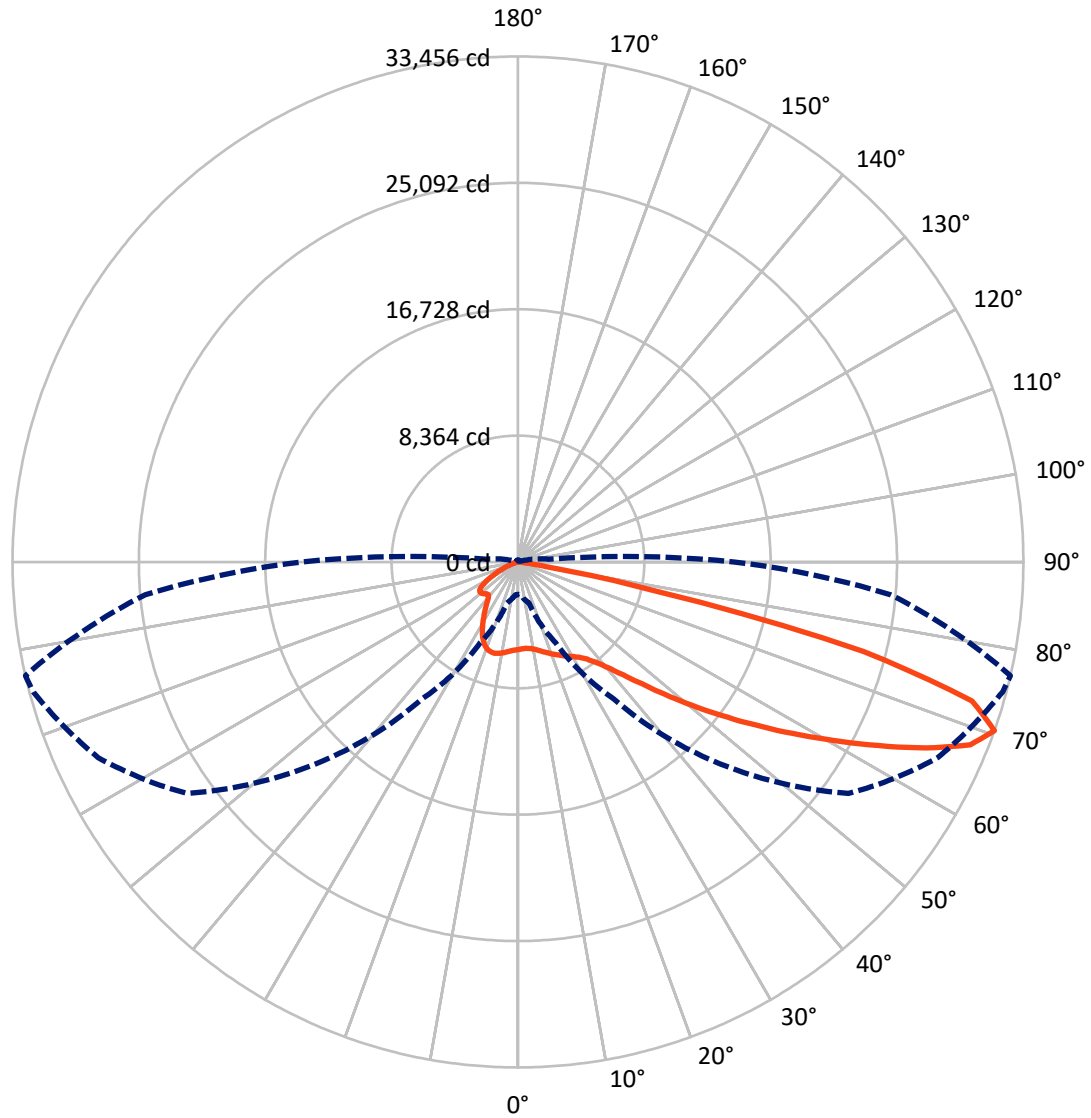
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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
House Side	Lumens	3914.1	0.0	3914.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	33216.9	0.0	33216.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	37131.0	0.0	37131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.3
10°-20°	1184.9	3.2
20°-30°	1832.8	4.9
30°-40°	3325.7	9.0
40°-50°	6277.6	16.9
50°-60°	9070.6	24.4
60°-70°	9655.4	26.0
70°-80°	5116.7	13.8
80°-90°	168.0	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°	37131.0	100.0
0°-180°	37131.0	100.0

Coefficient of Utilization



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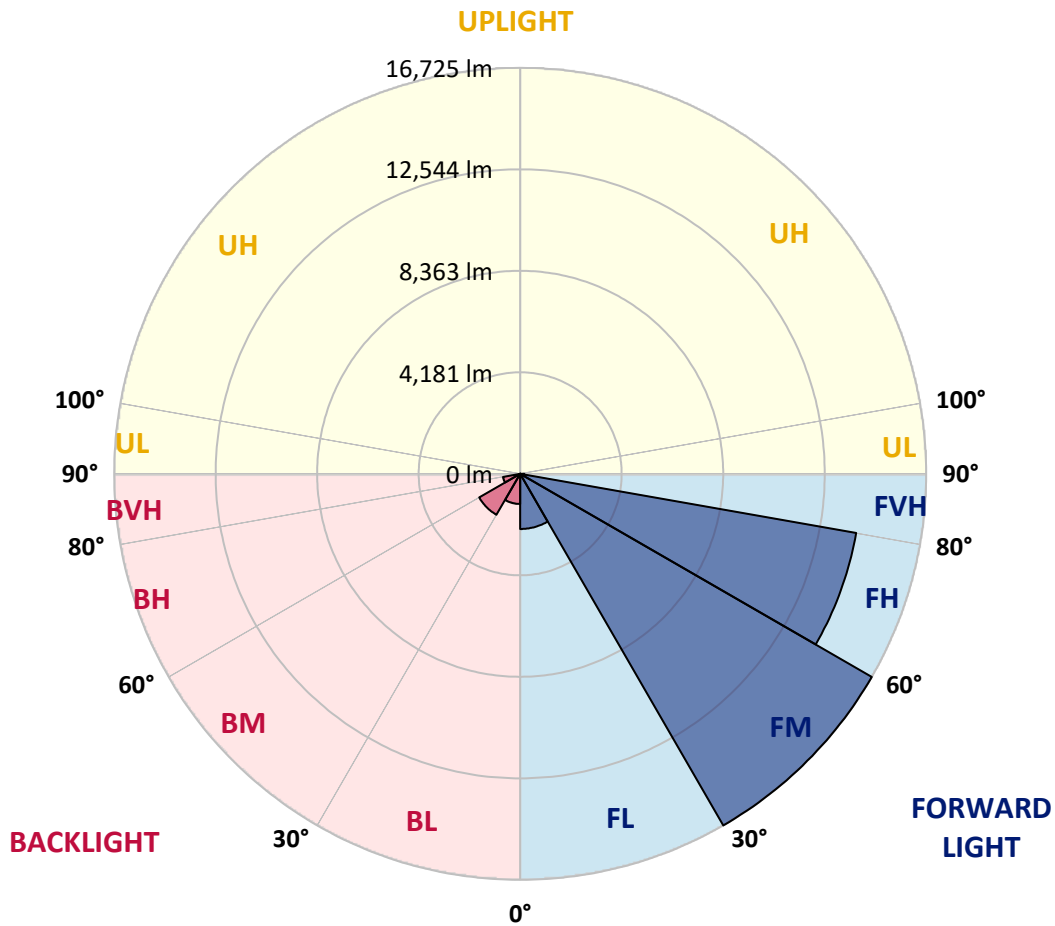
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.3	6.1			
FM (30°-60°)	16725.5	45.0			
FH (60°-80°)	14054.6	37.9			G5
FVH (80°-90°)	163.5	0.4			G2/225
BL (0°-30°)	1243.6	3.3	B3/2500		
BM (30°-60°)	1948.5	5.2	B2/2500		
BH (60°-80°)	717.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8
2.5°	5437.7	5486.9	5479.9	5512.7	5524.5	5571.4	5618.2	5681.6	5751.9	5749.6
5°	5130.5	5179.8	5191.5	5236.0	5292.3	5365.0	5461.1	5587.8	5719.1	5740.2
7.5°	4767.1	4818.7	4849.1	4938.2	5041.4	5191.5	5348.6	5533.8	5751.9	5782.4
10°	4403.6	4450.5	4490.4	4617.0	4781.1	5003.9	5259.5	5526.8	5819.9	5864.5
12.5°	4178.5	4223.1	4267.6	4377.8	4581.8	4853.8	5200.9	5559.6	5932.5	5995.8
15°	4098.8	4138.7	4173.8	4272.3	4462.2	4771.8	5189.1	5627.6	6075.5	6159.9
17.5°	4110.5	4131.6	4155.1	4230.1	4415.3	4734.2	5210.2	5744.9	6244.3	6319.4
20°	4178.5	4190.2	4192.6	4244.2	4408.3	4729.6	5252.5	5857.4	6403.8	6504.6
22.5°	4265.3	4270.0	4265.3	4300.4	4452.9	4764.7	5308.7	5993.4	6582.0	6675.8
25°	4670.9	4581.8	4469.3	4401.3	4527.9	4832.7	5393.1	6176.3	6776.6	6868.0
27.5°	5930.1	5674.5	5271.2	4818.7	4682.7	4931.2	5510.4	6361.6	6973.6	7055.6
30°	7974.8	7639.5	6954.8	5934.8	5179.8	5137.6	5662.8	6546.8	7182.3	7271.4
32.5°	10024.2	9942.1	9151.9	7740.3	6298.3	5597.1	5916.0	6797.7	7458.9	7529.3
35°	12097.1	11930.6	11283.4	9888.2	8021.7	6532.7	6338.1	7126.0	7822.4	7902.1
37.5°	13684.5	13583.7	13182.7	12033.7	10066.4	7977.2	7060.3	7634.8	8350.0	8439.1
40°	15086.7	15039.8	14903.8	14146.4	12352.6	9867.1	8183.5	8422.7	9081.6	9187.1
42.5°	16188.8	16299.0	16376.4	16165.4	14709.2	12024.4	9693.6	9529.4	10101.6	10209.5
45°	17316.7	17354.2	17666.1	17970.9	17049.4	14280.1	11395.9	10826.1	11370.1	11503.8
47.5°	18041.2	18191.3	18740.0	19277.0	19016.7	16517.1	13224.9	12357.3	12840.4	13091.3
50°	18095.2	18378.9	19133.9	20069.5	20449.4	18646.2	15213.3	14101.9	14615.4	14892.1
52.5°	17197.1	17637.9	18808.0	20177.4	21223.2	20449.4	17269.8	15846.5	16505.4	16866.5
55°	13185.1	13761.9	17581.6	19591.2	21253.7	21816.4	19272.3	17663.7	18611.0	19019.0
57.5°	11487.4	11778.2	13822.9	18573.5	20688.6	22367.5	21082.5	19394.2	20901.9	21408.4
60°	9557.6	9939.8	11592.9	16908.7	19921.8	22421.4	22681.7	21626.5	23385.1	23954.9
62.5°	6495.2	6910.3	8554.0	14048.0	18873.7	22395.6	23992.4	23924.4	26145.0	26757.0
65°	4023.8	4284.0	5367.3	11471.0	17408.1	22423.7	25364.2	26714.8	29057.3	29678.7
67.5°	3179.6	3299.2	3864.3	8807.2	14882.7	21790.6	26733.6	29338.7	31798.4	32290.9
70°	2136.2	2208.8	2811.5	5904.3	11072.4	18869.0	26707.8	30656.5	33210.0	33456.2
72.5°	1125.5	1181.8	1643.7	2734.1	6687.5	13412.5	22512.9	29080.8	31805.5	31435.0
75°	562.8	656.6	1106.8	1388.1	2856.0	7480.1	13980.0	22927.9	25033.6	23598.5
77.5°	426.8	515.9	914.5	914.5	994.2	2518.4	5920.7	12505.1	11534.3	9604.5
80°	272.0	351.7	799.6	691.7	415.0	640.1	1542.9	3503.2	2450.4	1864.2
82.5°	159.4	229.8	665.9	457.2	232.1	236.8	436.1	745.7	635.5	494.8
85°	63.3	150.1	457.2	180.6	91.4	58.6	131.3	159.4	131.3	98.5
87.5°	0.0	35.2	79.7	0.0	7.0	4.7	9.4	11.7	11.7	9.4
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°
5791.8	0°	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8	5791.8
5796.5	2.5°	5817.6	5822.2	5836.3	5838.7	5805.8	5763.6	5747.2	5740.2	5712.0	5709.7
5834.0	5°	5887.9	5909.0	5887.9	5826.9	5681.6	5477.6	5322.8	5196.2	5081.3	5046.1
5962.9	7.5°	6028.6	6049.7	5986.4	5747.2	5381.4	4975.8	4610.0	4352.0	4119.9	4033.1
6120.0	10°	6230.3	6258.4	6059.1	5576.0	4928.9	4277.0	3658.0	3221.8	2881.8	2743.5
6333.4	12.5°	6483.5	6495.2	6098.9	5315.8	4340.3	3409.4	2532.4	2065.8	1763.3	1650.8
6591.4	15°	6762.5	6746.1	6103.6	4961.7	3538.4	2410.5	1653.1	1357.7	1235.7	1198.2
6849.3	17.5°	7055.6	6987.6	6009.8	4450.5	2659.1	1648.4	1226.4	1156.0	1134.9	1125.5
7104.9	20°	7344.1	7191.6	5838.7	3782.2	1908.7	1231.0	1113.8	1092.7	1081.0	1076.3
7362.8	22.5°	7606.7	7346.4	5545.6	3006.1	1385.8	1088.0	1052.8	1034.1	1013.0	1003.6
7613.7	25°	7862.3	7435.5	5132.9	2281.5	1109.1	1017.7	989.5	954.4	926.2	914.5
7883.4	27.5°	8110.8	7491.8	4617.0	1688.3	989.5	952.0	900.4	851.2	830.1	825.4
8171.8	30°	8375.8	7510.5	4030.8	1259.2	916.8	869.9	794.9	738.6	726.9	729.2
8561.0	32.5°	8699.4	7538.7	3439.9	1031.7	855.9	771.5	682.3	623.7	614.3	623.7
9128.5	35°	9086.3	7595.0	2870.1	949.7	801.9	670.6	574.5	525.2	515.9	522.9
9855.4	37.5°	9611.5	7686.4	2337.8	933.2	757.4	586.2	483.0	443.2	443.2	445.5
10746.4	40°	10310.3	7930.3	1861.8	921.5	733.9	522.9	408.0	391.6	398.6	403.3
11881.3	42.5°	11161.5	8448.5	1540.6	907.5	708.1	494.8	370.5	363.5	375.2	379.9
13241.3	45°	12115.8	9105.0	1428.0	884.0	684.7	513.5	354.1	344.7	358.8	361.1
14765.5	47.5°	13103.0	9747.5	1413.9	858.2	661.2	541.7	349.4	328.3	344.7	347.0
16392.8	50°	14101.9	10167.2	1428.0	818.4	623.7	541.7	351.7	311.9	325.9	333.0
18081.1	52.5°	15107.8	10359.5	1418.6	731.6	558.1	508.8	351.7	297.8	311.9	316.6
19905.4	55°	16083.3	10322.0	1275.6	602.6	473.7	450.2	342.3	286.1	295.5	297.8
21628.8	57.5°	16854.7	9799.1	1010.6	469.0	384.6	375.2	311.9	272.0	279.0	276.7
23209.3	60°	17258.1	8650.1	722.2	361.1	302.5	295.5	274.3	253.2	257.9	246.2
24548.2	62.5°	17262.7	7130.7	483.0	286.1	241.5	234.5	234.5	227.4	222.8	199.3
25584.6	65°	16894.6	5444.7	321.2	227.4	194.6	182.9	197.0	194.6	178.2	145.4
25901.2	67.5°	16059.8	3568.9	243.9	178.2	150.1	143.0	157.1	164.1	152.4	121.9
24747.5	70°	14343.4	2077.5	201.7	138.3	112.6	105.5	126.6	140.7	126.6	98.5
21152.8	72.5°	11914.2	1120.8	164.1	103.2	77.4	70.3	100.8	114.9	100.8	72.7
13572.0	75°	7731.0	600.3	126.6	68.0	39.9	44.6	75.0	84.4	70.3	46.9
3983.9	77.5°	2595.7	265.0	79.7	32.8	18.8	18.8	44.6	51.6	32.8	16.4
724.6	80°	579.2	110.2	32.8	14.1	7.0	7.0	9.4	9.4	4.7	0.0
222.8	82.5°	189.9	44.6	14.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
56.3	85°	72.7	16.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.8	87.5°	28.1	2.3	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>
5791.8
5714.4
5025.0
3998.0
2684.8
1615.6
1198.2
1123.2
1071.6
1001.2
909.8
820.7
729.2
621.4
520.6
443.2
403.3
379.9
363.5
349.4
335.3
316.6
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276.7
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