

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: P944074

Luminaire Tested: **GALN-SB8D-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55733 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

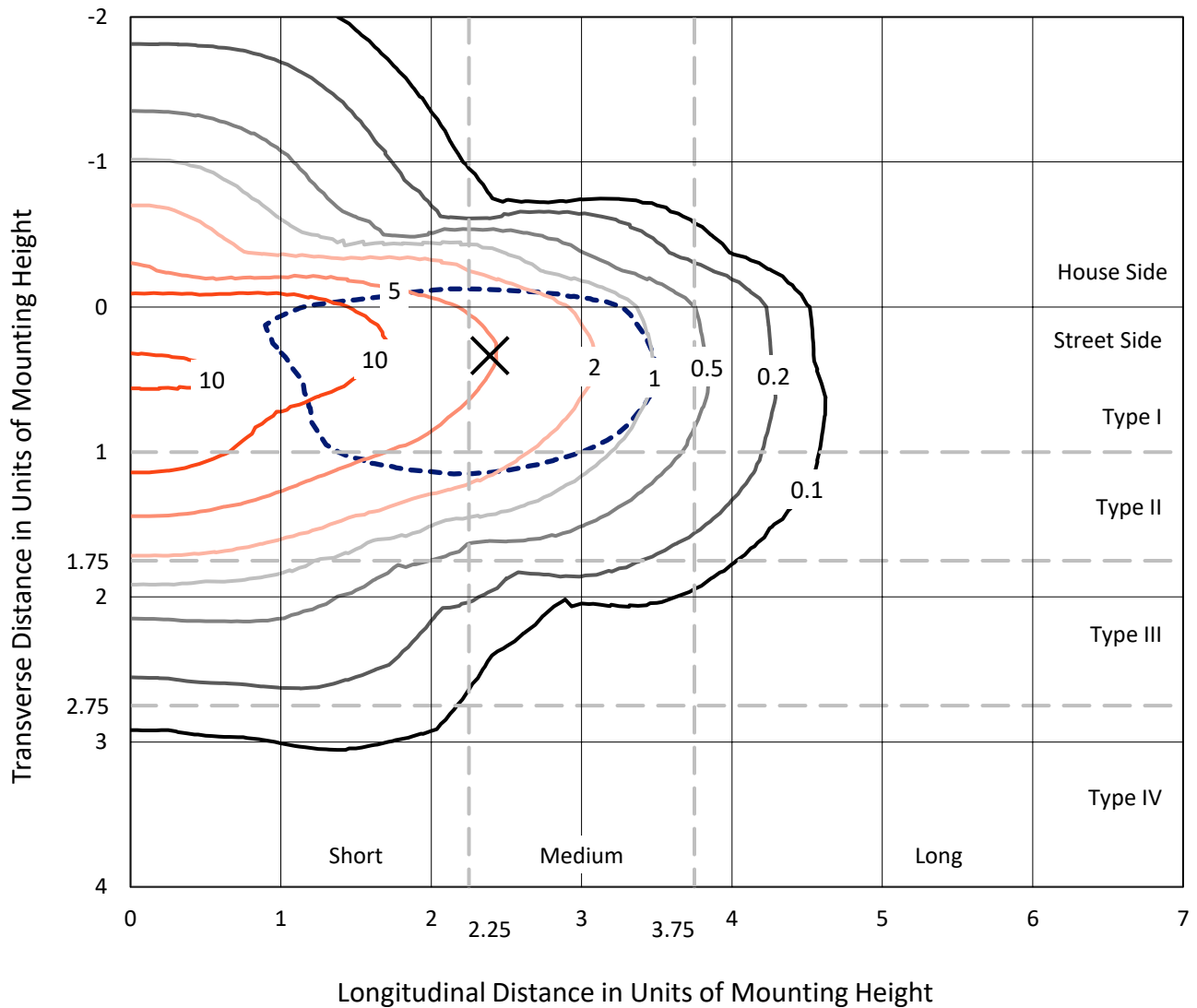
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

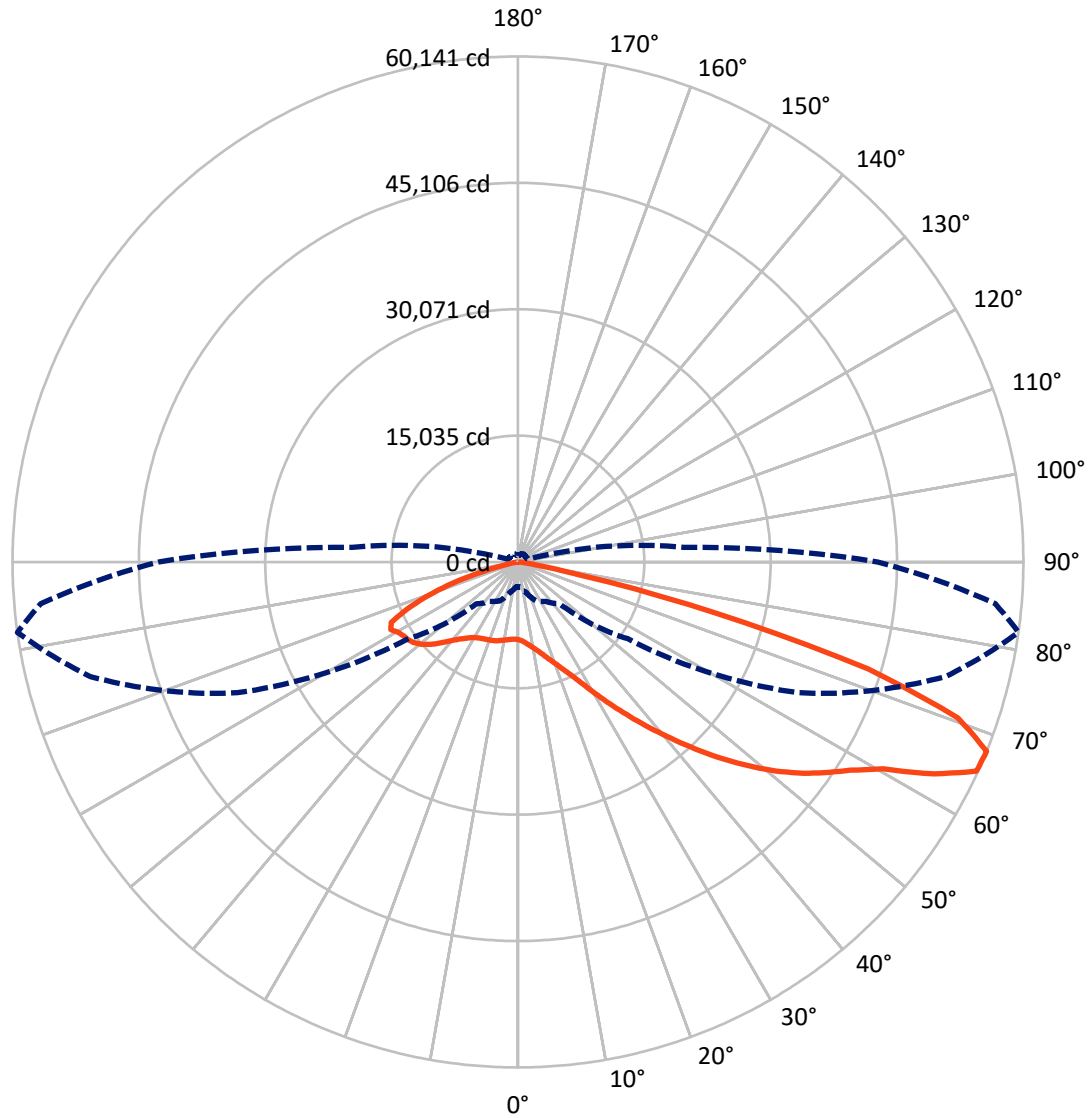
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10095.5	0.0	10095.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	45637.5	0.0	45637.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	55733.0	0.0	55733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.6	1.5
10°-20°	2137.6	3.8
20°-30°	3423.8	6.1
30°-40°	6054.2	10.9
40°-50°	10607.6	19.0
50°-60°	14147.6	25.4
60°-70°	13170.7	23.6
70°-80°	5054.9	9.1
80°-90°	314.0	0.6
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°	55733.0	100.0
0°-180°	55733.0	100.0

Coefficient of Utilization



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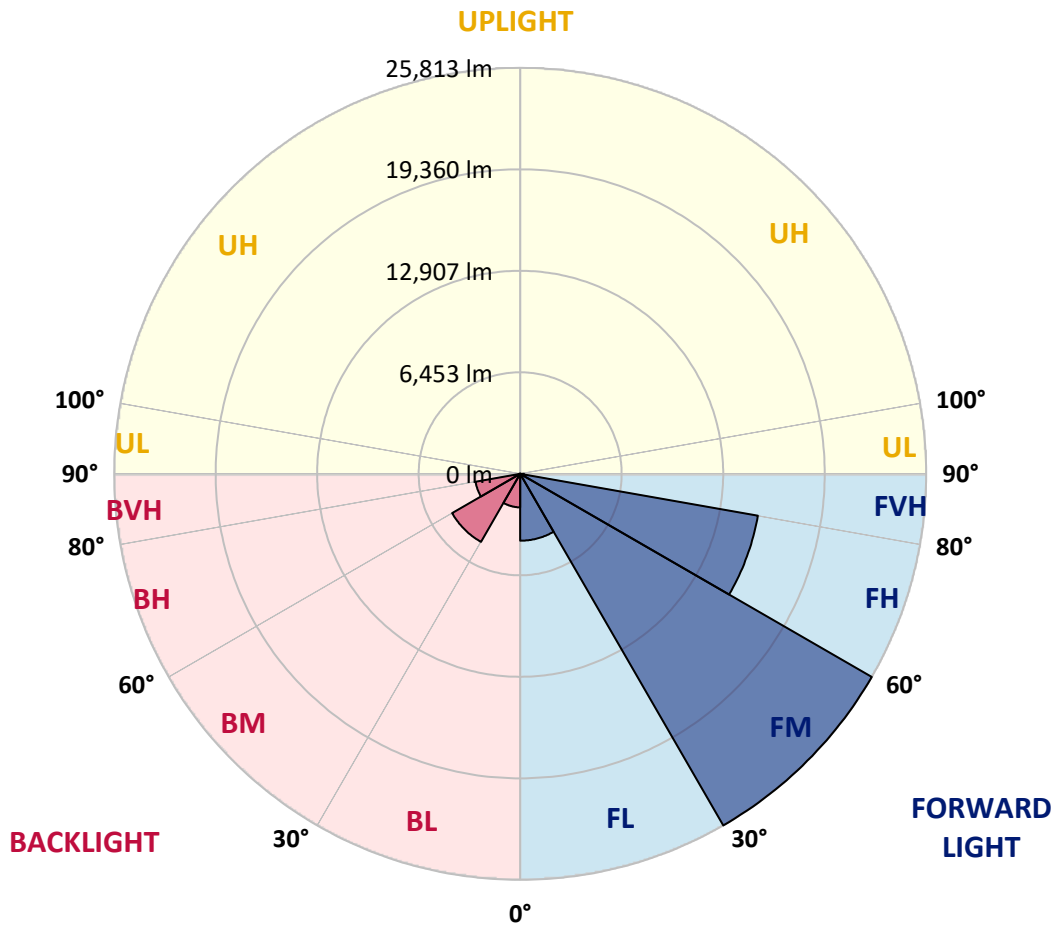
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4251.8	7.6			
FM (30°-60°)	25813.2	46.3			
FH (60°-80°)	15344.1	27.5			G5
FVH (80°-90°)	228.3	0.4			G3/500
BL (0°-30°)	2132.2	3.8	B3/2500		
BM (30°-60°)	4996.2	9.0	B3/5000		
BH (60°-80°)	2881.5	5.2	B4/5000		G4/5000
BVH (80°-90°)	85.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1
2.5°	9758.7	9814.9	9782.8	9766.8	9738.7	9698.5	9666.4	9566.1	9461.8	9393.6
5°	9955.3	10011.5	10007.5	10023.6	10043.6	10055.7	10047.6	9935.3	9786.8	9670.4
7.5°	9786.8	9851.0	9903.2	9983.4	10123.9	10272.3	10344.6	10320.5	10168.0	10007.5
10°	9309.3	9377.5	9501.9	9690.5	9987.4	10308.5	10577.3	10701.7	10605.4	10428.8
12.5°	8434.6	8502.8	8747.5	9156.8	9654.4	10212.2	10725.8	11058.8	11082.9	10906.3
15°	7451.5	7519.7	7780.5	8294.1	9052.5	9947.3	10806.0	11436.0	11648.7	11496.2
17.5°	6841.5	6901.7	7098.4	7511.7	8302.1	9417.7	10777.9	11837.3	12322.8	12202.4
20°	6657.0	6709.1	6801.4	7090.3	7748.4	8867.9	10593.4	12214.5	13049.1	12980.9
22.5°	6853.6	6901.7	6929.8	7058.2	7471.5	8506.8	10360.6	12599.7	13891.7	13899.8
25°	7307.0	7355.2	7323.1	7403.3	7583.9	8394.4	10272.3	13053.1	14951.1	15039.4
27.5°	8053.4	8057.4	7981.1	7977.1	8005.2	8563.0	10364.6	13538.6	16287.3	16451.8
30°	9550.1	9489.9	9197.0	8880.0	8735.5	9068.6	10621.4	14112.4	17864.2	18157.2
32.5°	11857.3	11769.1	11231.4	10473.0	9710.6	9883.1	11082.9	14766.5	19581.7	20111.3
35°	14361.2	14337.1	13775.4	12647.8	11315.6	11042.8	11833.3	15625.2	21455.6	22298.2
37.5°	16688.5	16676.5	16355.5	15027.3	13406.2	12659.9	13037.0	16748.7	23461.9	24681.7
40°	18815.2	18851.4	18530.3	17342.6	15709.5	14734.4	14674.2	18137.1	25692.9	27277.9
42.5°	20653.0	20693.2	20368.1	19489.4	17984.6	17029.6	16684.5	19838.5	27871.8	30066.7
45°	21901.0	22149.7	22101.6	21399.4	20320.0	19328.9	19100.1	21973.2	30355.6	33024.0
47.5°	22254.1	22482.8	22843.9	22940.2	22282.2	21307.1	21579.9	24545.3	32867.5	35985.3
50°	21383.3	21596.0	22346.4	23345.5	23802.9	23502.0	23991.5	27302.0	35439.6	38938.6
52.5°	19665.9	19882.6	20829.6	22410.6	24276.4	25223.4	26411.2	30018.5	37931.4	41735.4
55°	17182.1	17410.8	18626.6	20416.3	23373.6	25933.7	28429.5	32731.1	40214.6	44251.3
57.5°	13803.5	13972.0	15236.0	17739.9	21102.4	25227.4	29918.2	35692.4	42365.4	46723.1
60°	8996.3	9144.8	10613.4	13406.2	17338.6	22868.0	30215.1	38994.8	45222.4	49937.2
62.5°	5982.8	6083.2	6953.9	9004.4	12210.4	18337.7	28477.7	41631.1	49411.6	55530.8
65°	4104.9	4205.2	5076.0	6504.5	7888.8	12130.2	23481.9	41282.0	53207.5	59972.8
67.5°	2929.2	3013.5	3751.8	5100.1	5710.0	7046.2	15918.1	36819.9	52661.8	60141.4
70°	2098.6	2146.8	2756.7	3972.5	4538.3	4233.3	8851.9	28160.7	46109.2	55534.9
72.5°	1468.6	1484.7	1914.0	3025.5	3655.5	3089.7	4213.3	18775.1	34873.8	43589.2
75°	995.1	1015.2	1288.1	2219.0	2933.2	2359.4	2231.0	10067.7	20472.5	24128.0
77.5°	609.9	617.9	830.6	1516.8	2194.9	1797.7	1436.5	4265.4	7920.9	7776.5
80°	345.1	345.1	529.7	943.0	1496.7	1159.7	1007.2	1813.7	2507.9	2202.9
82.5°	192.6	196.6	385.2	585.8	991.1	686.2	553.7	838.6	1083.4	959.0
85°	80.3	88.3	236.7	276.9	473.5	341.1	224.7	353.1	401.3	357.1
87.5°	8.0	12.0	72.2	52.2	56.2	68.2	32.1	68.2	56.2	56.2
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°
9233.1	0°	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1
9369.5	2.5°	9293.3	9233.1	9080.6	8904.0	8671.3	8558.9	8406.5	8302.1	8213.9	8221.9
9602.2	5°	9473.8	9321.3	8980.3	8554.9	8025.3	7648.1	7246.8	6969.9	6745.2	6697.1
9923.2	7.5°	9722.6	9481.9	8884.0	8117.6	7222.7	6544.6	5938.7	5549.5	5272.6	5184.3
10312.5	10°	10043.6	9694.5	8759.6	7567.8	6279.8	5417.1	4767.0	4462.0	4273.5	4209.3
10769.9	12.5°	10416.8	9939.3	8595.1	6897.7	5308.7	4478.1	4064.8	3912.3	3852.1	3832.1
11331.7	15°	10886.3	10244.3	8346.3	6103.2	4486.1	3904.3	3727.7	3707.7	3715.7	3707.7
12005.8	17.5°	11444.0	10577.3	7941.0	5284.6	3932.4	3611.4	3547.2	3563.2	3583.3	3579.3
12760.2	20°	12054.0	10906.3	7423.4	4558.4	3555.2	3402.7	3366.6	3382.7	3398.7	3390.7
13630.9	22.5°	12748.1	11259.5	6849.6	3992.6	3302.4	3210.1	3170.0	3174.0	3174.0	3157.9
14734.4	25°	13578.8	11648.7	6247.7	3591.3	3109.8	3037.6	2989.4	2973.4	2949.3	2901.1
16074.6	27.5°	14569.9	12062.0	5669.9	3310.4	2957.3	2889.1	2832.9	2792.8	2732.6	2652.4
17683.7	30°	15685.4	12563.6	5180.3	3133.9	2836.9	2768.7	2704.5	2644.3	2556.0	2455.7
19533.5	32.5°	16997.5	13101.3	4823.2	3017.5	2728.6	2656.4	2580.1	2507.9	2411.6	2311.3
21612.0	35°	18562.4	13751.3	4614.5	2937.2	2644.3	2548.0	2463.8	2383.5	2311.3	2223.0
23871.2	37.5°	20259.8	14441.5	4550.3	2897.1	2588.1	2439.7	2343.4	2287.2	2279.2	2227.0
26314.9	40°	22117.6	15260.0	4598.5	2873.0	2528.0	2335.4	2231.0	2219.0	2239.1	2146.8
28927.1	42.5°	24083.8	16231.1	4678.7	2845.0	2443.7	2231.0	2130.7	2130.7	2114.7	1986.3
31687.8	45°	26210.5	17350.6	4759.0	2776.7	2343.4	2126.7	2050.5	2022.4	1954.2	1829.8
34464.5	47.5°	28353.3	18490.2	4819.2	2652.4	2223.0	2038.4	1970.2	1906.0	1805.7	1693.3
37189.1	50°	30387.7	19513.4	4755.0	2467.8	2086.6	1954.2	1881.9	1793.6	1685.3	1609.1
39769.2	52.5°	32205.4	20400.2	4482.1	2251.1	1942.1	1865.9	1801.7	1709.4	1621.1	1540.9
42096.5	55°	33786.4	21118.5	4000.6	2046.4	1813.7	1789.6	1725.4	1609.1	1488.7	1420.5
44403.8	57.5°	35303.2	21664.2	3398.7	1877.9	1697.3	1705.4	1609.1	1504.7	1392.4	1320.2
47513.6	60°	37321.5	22394.5	2788.8	1721.4	1573.0	1597.0	1492.7	1416.5	1276.0	1183.7
52846.4	62.5°	40547.7	23530.1	2215.0	1528.8	1428.5	1436.5	1392.4	1300.1	1131.6	1023.2
56798.8	65°	43107.7	23112.8	1745.5	1320.2	1264.0	1276.0	1276.0	1175.7	995.1	870.7
57011.5	67.5°	42818.8	19790.3	1392.4	1115.5	1107.5	1115.5	1143.6	1059.3	882.8	782.5
52669.8	70°	39444.2	15741.6	1115.5	926.9	963.0	943.0	1023.2	967.0	794.5	694.2
40832.6	72.5°	32185.3	11339.7	850.7	766.4	738.3	770.4	922.9	870.7	662.1	549.7
21628.1	75°	18807.2	6051.1	634.0	605.9	533.7	642.0	818.6	742.3	505.6	405.3
6628.9	77.5°	6123.3	2110.6	465.5	445.4	397.3	517.6	698.2	626.0	413.3	321.0
1942.1	80°	1641.2	638.0	317.0	292.9	256.8	385.2	553.7	497.6	296.9	208.7
834.6	82.5°	658.1	268.8	184.6	164.5	140.4	264.8	437.4	401.3	220.7	132.4
260.8	85°	212.7	88.3	68.2	52.2	64.2	164.5	260.8	272.9	156.5	68.2
40.1	87.5°	28.1	12.0	12.0	16.1	12.0	28.1	80.3	76.2	44.1	8.0
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>
9233.1
8141.6
6588.7
5096.0
4161.1
3820.0
3703.7
3571.2
3386.7
3149.9
2893.1
2644.3
2447.7
2315.3
2215.0
2223.0
2150.8
1986.3
1825.7
1689.3
1597.0
1532.8
1412.4
1312.1
1171.7
1015.2
858.7
766.4
682.1
537.7
393.2
309.0
204.6
132.4
52.2
0.0
0.0

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