

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: P944094

Luminaire Tested: **GALN-SB8D-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944094
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-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 57474 lumens
Efficiency: N/A
Efficacy: 98.3 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

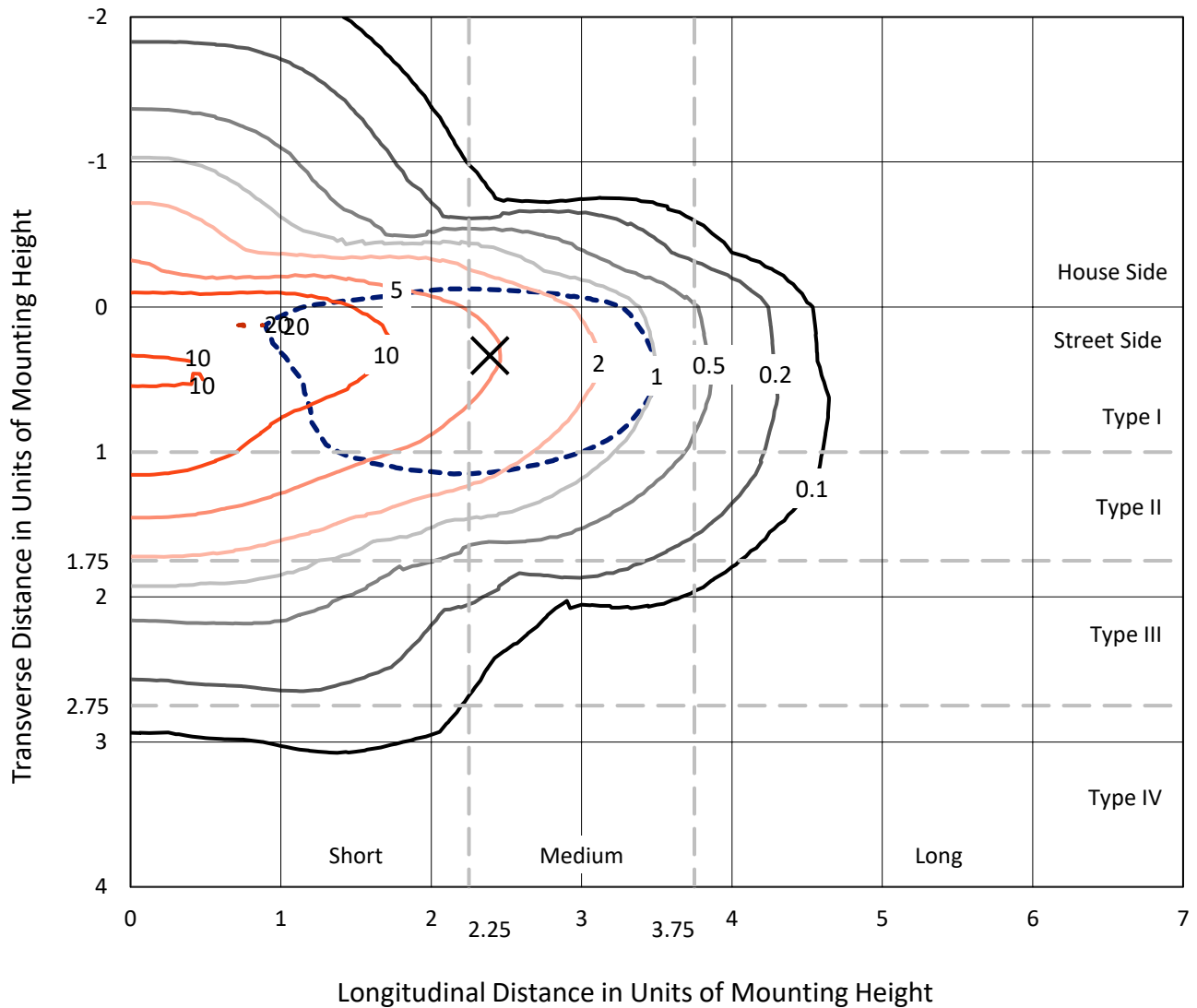
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

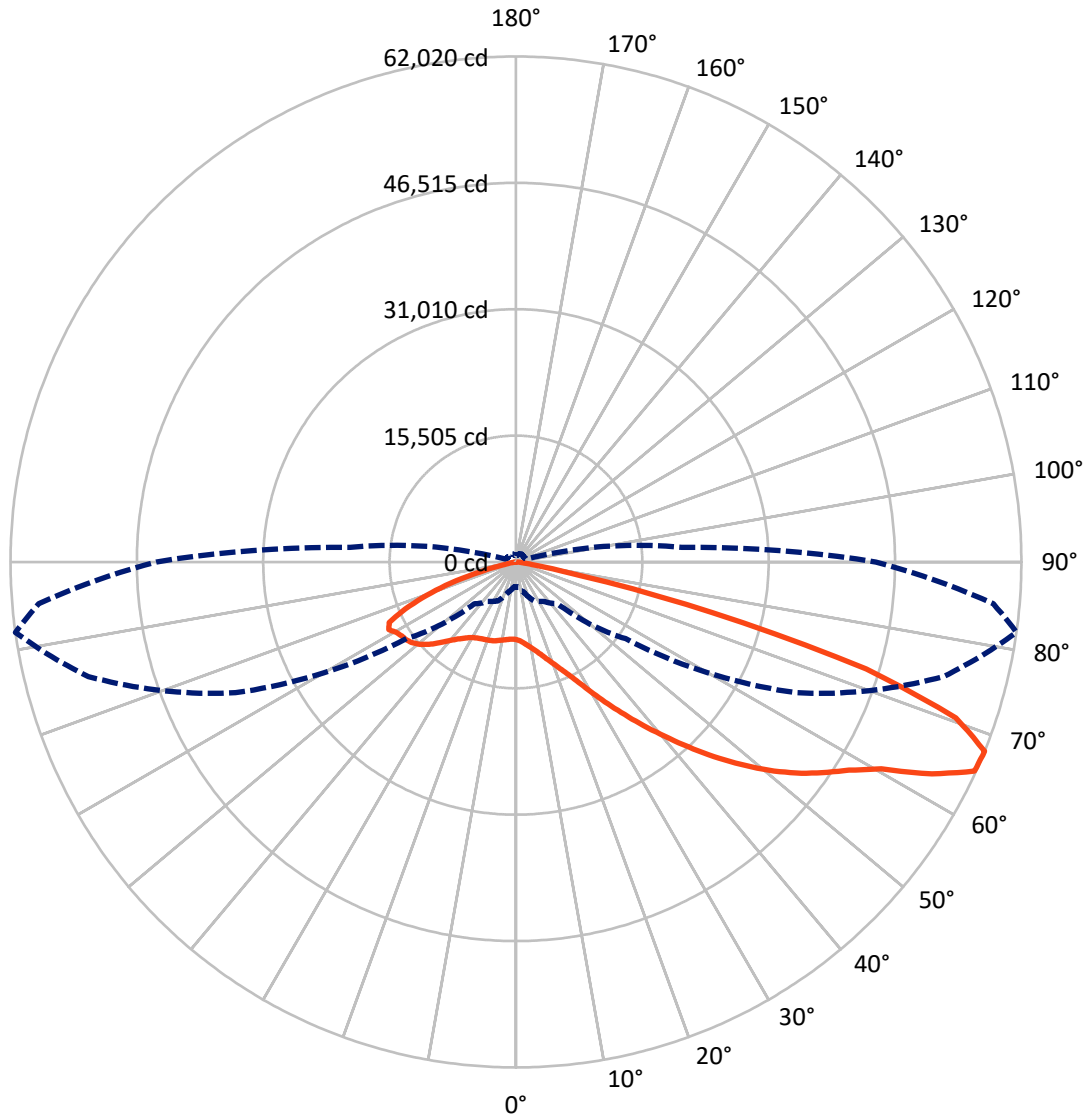
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	10410.9	0.0	10410.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	47063.1	0.0	47063.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	57474.0	0.0	57474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.3	1.5
10°-20°	2204.4	3.8
20°-30°	3530.7	6.1
30°-40°	6243.4	10.9
40°-50°	10939.0	19.0
50°-60°	14589.6	25.4
60°-70°	13582.1	23.6
70°-80°	5212.8	9.1
80°-90°	323.8	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°	57474.0	100.0
0°-180°	57474.0	100.0

Coefficient of Utilization



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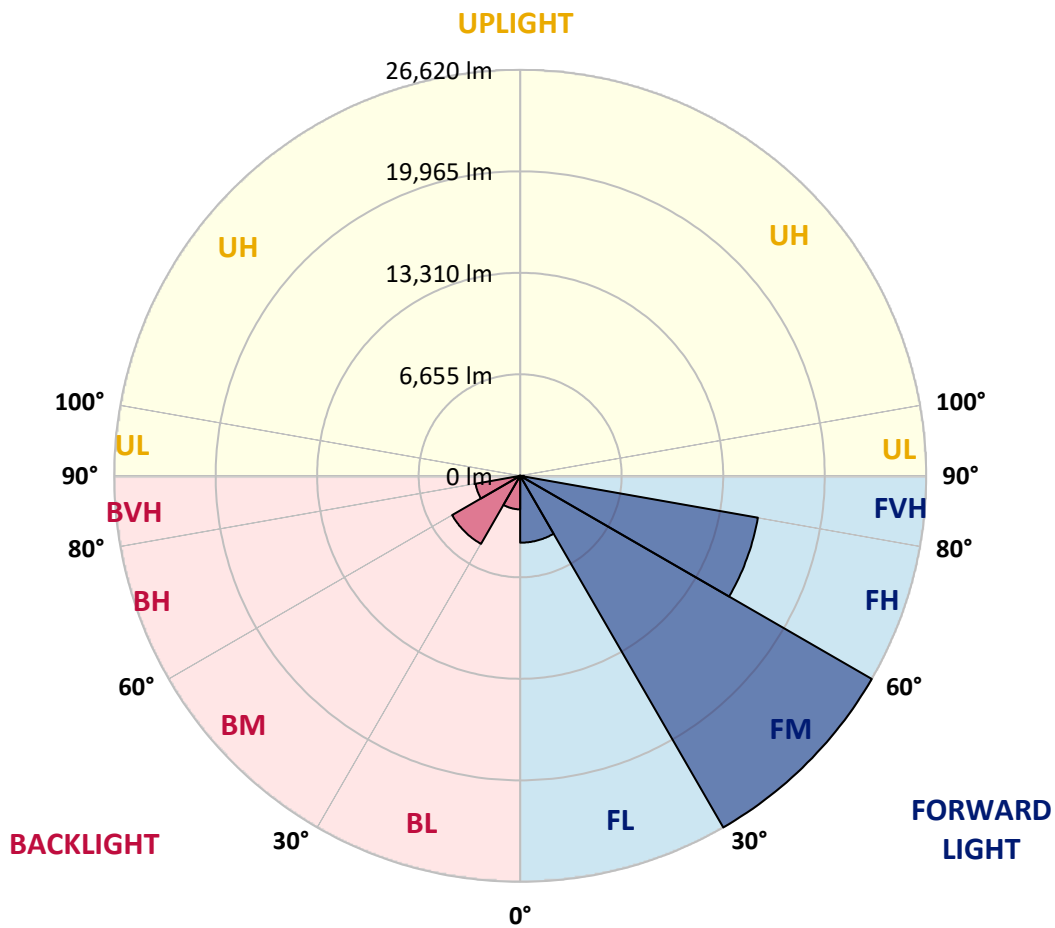
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4384.6	7.6			
FM (30°-60°)	26619.6	46.3			
FH (60°-80°)	15823.5	27.5			G5
FVH (80°-90°)	235.4	0.4			G3/500
BL (0°-30°)	2198.8	3.8	B3/2500		
BM (30°-60°)	5152.3	9.0	B4/8500		
BH (60°-80°)	2971.5	5.2	B4/5000		G4/5000
BVH (80°-90°)	88.4	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°	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5
2.5°	10063.6	10121.5	10088.4	10071.8	10042.9	10001.5	9968.4	9864.9	9757.4	9687.0
5°	10266.3	10324.3	10320.1	10336.7	10357.4	10369.8	10361.5	10245.6	10092.5	9972.5
7.5°	10092.5	10158.7	10212.5	10295.3	10440.1	10593.2	10667.7	10642.9	10485.6	10320.1
10°	9600.1	9670.5	9798.7	9993.2	10299.4	10630.5	10907.7	11036.0	10936.7	10754.6
12.5°	8698.0	8768.4	9020.8	9442.9	9956.0	10531.2	11060.8	11404.3	11429.1	11247.0
15°	7684.2	7754.6	8023.5	8553.2	9335.3	10258.1	11143.6	11793.2	12012.6	11855.3
17.5°	7055.3	7117.3	7320.1	7746.3	8561.5	9711.8	11114.6	12207.0	12707.7	12583.6
20°	6864.9	6918.7	7013.9	7311.8	7990.4	9144.9	10924.3	12596.0	13456.7	13386.4
22.5°	7067.7	7117.3	7146.3	7278.7	7704.9	8772.5	10684.3	12993.3	14325.7	14334.0
25°	7535.3	7584.9	7551.8	7634.6	7820.8	8656.7	10593.2	13460.9	15418.1	15509.2
27.5°	8304.9	8309.1	8230.4	8226.3	8255.3	8830.5	10688.4	13961.6	16796.1	16965.7
30°	9848.4	9786.3	9484.3	9157.4	9008.4	9351.8	10953.2	14553.3	18422.3	18724.4
32.5°	12227.7	12136.7	11582.2	10800.1	10013.9	10191.8	11429.1	15227.8	20193.4	20739.6
35°	14809.8	14785.0	14205.7	13042.9	11669.1	11387.7	12202.9	16113.3	22125.8	22994.8
37.5°	17209.9	17197.5	16866.4	15496.7	13825.0	13055.3	13444.3	17271.9	24194.8	25452.7
40°	19403.0	19440.2	19109.2	17884.4	16200.2	15194.7	15132.6	18703.7	26495.5	28130.0
42.5°	21298.2	21339.6	21004.4	20098.2	18546.4	17561.6	17205.7	20458.2	28742.4	31005.9
45°	22585.1	22841.7	22792.0	22067.9	20954.7	19932.7	19696.8	22659.6	31303.8	34055.6
47.5°	22949.2	23185.1	23557.5	23656.8	22978.2	21972.7	22254.1	25312.0	33894.2	37109.4
50°	22051.3	22270.6	23044.4	24074.8	24546.5	24236.2	24741.0	28154.8	36546.7	40155.0
52.5°	20280.3	20503.7	21480.3	23110.6	25034.8	26011.4	27236.2	30956.2	39116.3	43039.2
55°	17718.8	17954.7	19208.5	21054.1	24103.7	26743.8	29317.6	33753.5	41470.9	45633.7
57.5°	14234.7	14408.5	15711.9	18294.0	21761.6	26015.5	30852.8	36807.4	43688.8	48182.7
60°	9277.4	9430.5	10945.0	13825.0	17880.2	23582.4	31159.0	40212.9	46635.1	51497.2
62.5°	6169.7	6273.2	7171.1	9285.6	12591.9	18910.6	29367.3	42931.6	50955.1	57265.5
65°	4233.2	4336.6	5234.5	6707.7	8135.3	12509.1	24215.5	42571.6	54869.6	61846.3
67.5°	3020.7	3107.6	3869.0	5259.4	5888.3	7266.3	16415.4	37970.1	54306.9	62020.1
70°	2164.2	2213.8	2842.8	4096.6	4680.1	4365.6	9128.4	29040.4	47549.6	57269.7
72.5°	1514.5	1531.1	1973.8	3120.0	3769.7	3186.2	4344.9	19361.6	35963.2	44950.9
75°	1026.2	1046.9	1328.3	2288.3	3024.9	2433.1	2300.7	10382.2	21112.0	24881.7
77.5°	629.0	637.2	856.6	1564.2	2263.5	1853.8	1481.4	4398.7	8168.4	8019.4
80°	355.9	355.9	546.2	972.4	1543.5	1195.9	1038.6	1870.4	2586.2	2271.8
82.5°	198.6	202.8	397.2	604.1	1022.1	707.6	571.0	864.8	1117.3	989.0
85°	82.8	91.0	244.1	285.5	488.3	351.7	231.7	364.1	413.8	368.3
87.5°	8.3	12.4	74.5	53.8	57.9	70.3	33.1	70.3	57.9	57.9
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°
9521.5	0°	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5	9521.5
9662.2	2.5°	9583.6	9521.5	9364.3	9182.2	8942.2	8826.3	8669.1	8561.5	8470.4	8478.7
9902.2	5°	9769.8	9612.5	9260.8	8822.2	8276.0	7887.0	7473.2	7187.7	6955.9	6906.3
10233.2	7.5°	10026.3	9778.1	9161.5	8371.1	7448.4	6749.0	6124.2	5722.8	5437.3	5346.3
10634.6	10°	10357.4	9997.4	9033.2	7804.2	6475.9	5586.3	4915.9	4601.4	4407.0	4340.7
11106.3	12.5°	10742.2	10249.8	8863.6	7113.2	5474.6	4618.0	4191.8	4034.5	3972.5	3951.8
11685.7	15°	11226.3	10564.3	8607.0	6293.9	4626.3	4026.3	3844.2	3823.5	3831.8	3823.5
12380.8	17.5°	11801.5	10907.7	8189.1	5449.7	4055.2	3724.2	3658.0	3674.5	3695.2	3691.1
13158.8	20°	12430.5	11247.0	7655.3	4700.7	3666.3	3509.0	3471.8	3488.3	3504.9	3496.6
14056.7	22.5°	13146.4	11611.2	7063.5	4117.3	3405.6	3310.4	3269.0	3273.1	3273.1	3256.6
15194.7	25°	14002.9	12012.6	6442.8	3703.5	3206.9	3132.5	3082.8	3066.2	3041.4	2991.8
16576.8	27.5°	15025.0	12438.8	5847.0	3413.8	3049.7	2979.3	2921.4	2880.0	2818.0	2735.2
18236.1	30°	16175.4	12956.0	5342.1	3231.8	2925.6	2855.2	2789.0	2726.9	2635.9	2532.4
20143.7	32.5°	17528.5	13510.5	4973.9	3111.8	2813.8	2739.3	2660.7	2586.2	2486.9	2383.5
22287.2	35°	19142.3	14180.9	4758.7	3029.0	2726.9	2627.6	2540.7	2458.0	2383.5	2292.4
24616.9	37.5°	20892.7	14892.6	4692.5	2987.6	2669.0	2515.9	2416.6	2358.6	2350.4	2296.6
27136.9	40°	22808.6	15736.7	4742.1	2962.8	2606.9	2408.3	2300.7	2288.3	2309.0	2213.8
29830.7	42.5°	24836.2	16738.1	4824.9	2933.8	2520.0	2300.7	2197.3	2197.3	2180.7	2048.3
32677.6	45°	27029.3	17892.6	4907.6	2863.5	2416.6	2193.1	2114.5	2085.5	2015.2	1886.9
35541.1	47.5°	29239.0	19067.8	4969.7	2735.2	2292.4	2102.1	2031.7	1965.5	1862.1	1746.2
38350.8	50°	31336.9	20123.0	4903.5	2544.9	2151.8	2015.2	1940.7	1849.7	1738.0	1659.3
41011.5	52.5°	33211.4	21037.5	4622.1	2321.4	2002.8	1924.2	1858.0	1762.8	1671.7	1589.0
43411.6	55°	34841.8	21778.2	4125.6	2110.4	1870.4	1845.5	1779.3	1659.3	1535.2	1464.8
45790.9	57.5°	36406.0	22341.0	3504.9	1936.6	1750.4	1758.6	1659.3	1551.7	1435.9	1361.4
48997.8	60°	38487.4	23094.1	2875.9	1775.2	1622.1	1646.9	1539.3	1460.7	1315.9	1220.7
54497.2	62.5°	41814.3	24265.1	2284.2	1576.6	1473.1	1481.4	1435.9	1340.7	1166.9	1055.2
58573.1	65°	44454.3	23834.8	1800.0	1361.4	1303.5	1315.9	1315.9	1212.4	1026.2	897.9
58792.4	67.5°	44156.4	20408.5	1435.9	1150.4	1142.1	1150.4	1179.3	1092.4	910.4	806.9
54315.2	70°	40676.4	16233.3	1150.4	955.9	993.1	972.4	1055.2	997.3	819.3	715.9
42108.1	72.5°	33190.8	11693.9	877.3	790.4	761.4	794.5	951.7	897.9	682.8	566.9
22303.7	75°	19394.7	6240.1	653.8	624.8	550.4	662.1	844.1	765.5	521.4	417.9
6835.9	77.5°	6314.6	2176.6	480.0	459.3	409.7	533.8	720.0	645.5	426.2	331.0
2002.8	80°	1692.4	657.9	326.9	302.1	264.8	397.2	571.0	513.1	306.2	215.2
860.7	82.5°	678.6	277.2	190.3	169.7	144.8	273.1	451.0	413.8	227.6	136.6
269.0	85°	219.3	91.0	70.3	53.8	66.2	169.7	269.0	281.4	161.4	70.3
41.4	87.5°	29.0	12.4	12.4	16.6	12.4	29.0	82.8	78.6	45.5	8.3
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>
9521.5
8396.0
6794.6
5255.2
4291.1
3939.4
3819.4
3682.8
3492.5
3248.3
2983.5
2726.9
2524.2
2387.6
2284.2
2292.4
2218.0
2048.3
1882.8
1742.1
1646.9
1580.7
1456.6
1353.1
1208.3
1046.9
885.5
790.4
703.5
554.5
405.5
318.6
211.0
136.6
53.8
0.0
0.0

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