

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: P944054

Luminaire Tested: **GALN-SB8D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944054
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-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 52249 lumens
Efficiency: N/A
Efficacy: 89.3 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

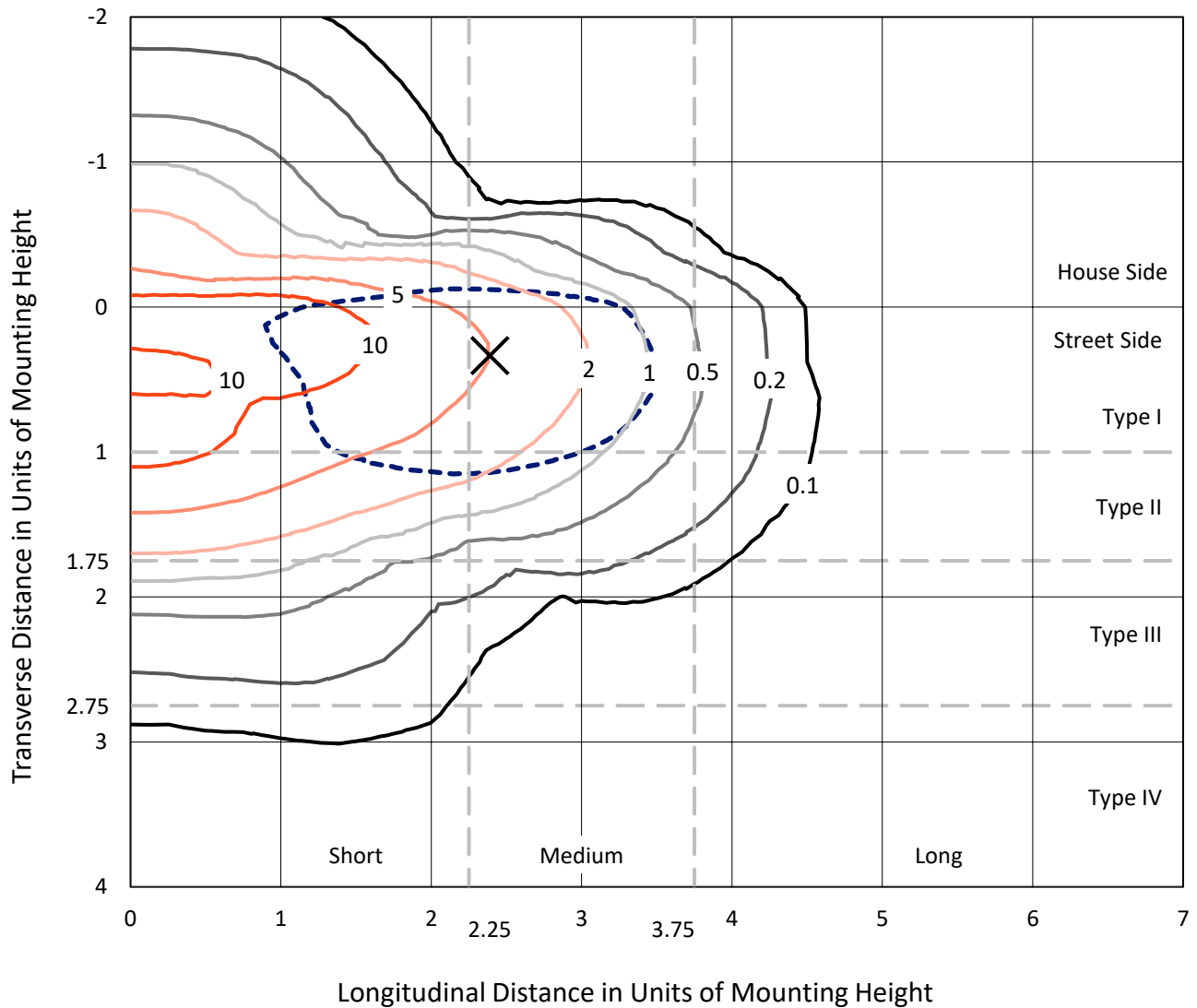
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

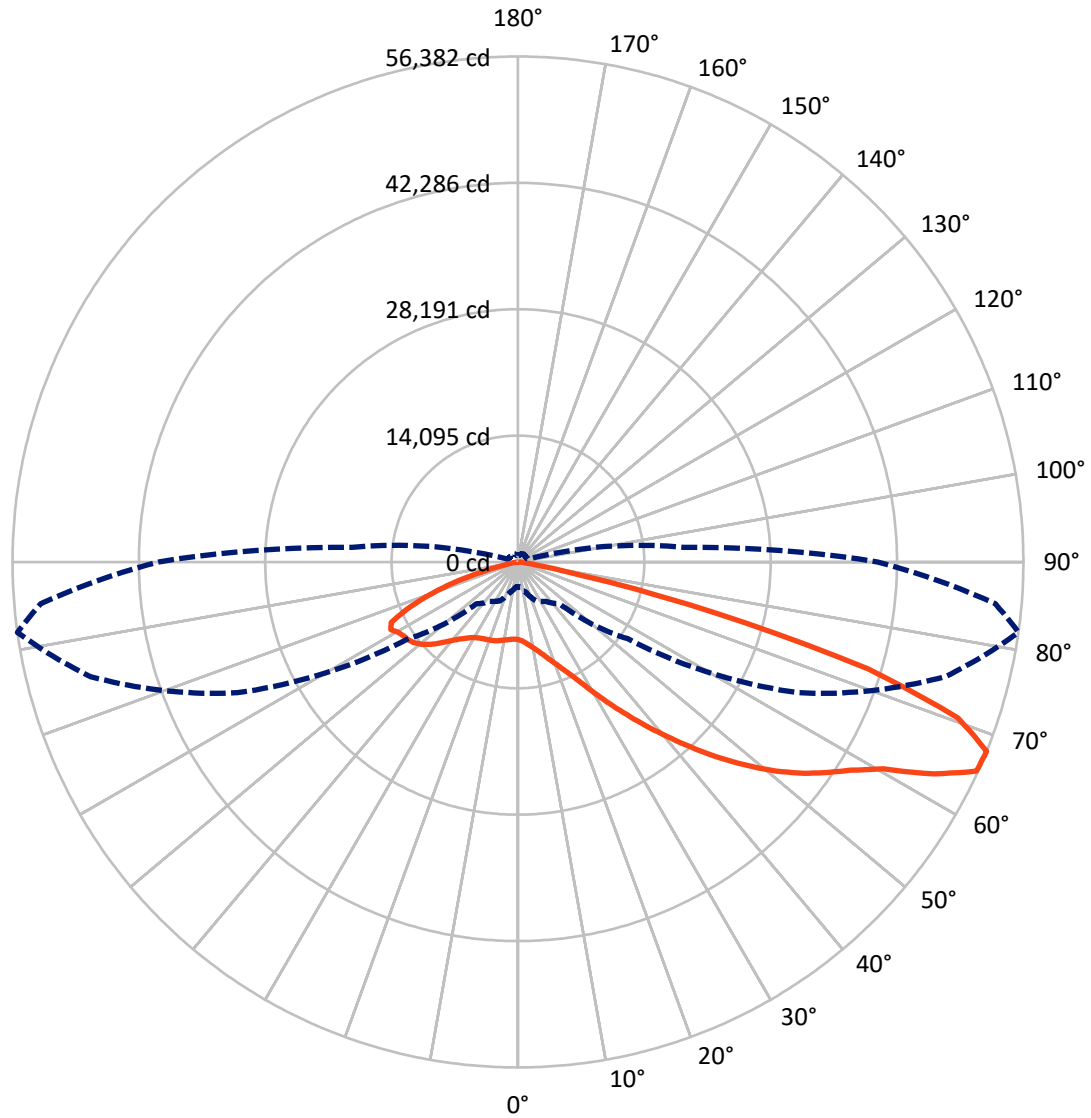
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	9464.4	0.0	9464.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42784.6	0.0	42784.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	52249.0	0.0	52249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.2	1.5
10°-20°	2004.0	3.8
20°-30°	3209.7	6.1
30°-40°	5675.8	10.9
40°-50°	9944.5	19.0
50°-60°	13263.2	25.4
60°-70°	12347.4	23.6
70°-80°	4738.9	9.1
80°-90°	294.3	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°	52249.0	100.0
0°-180°	52249.0	100.0

Coefficient of Utilization



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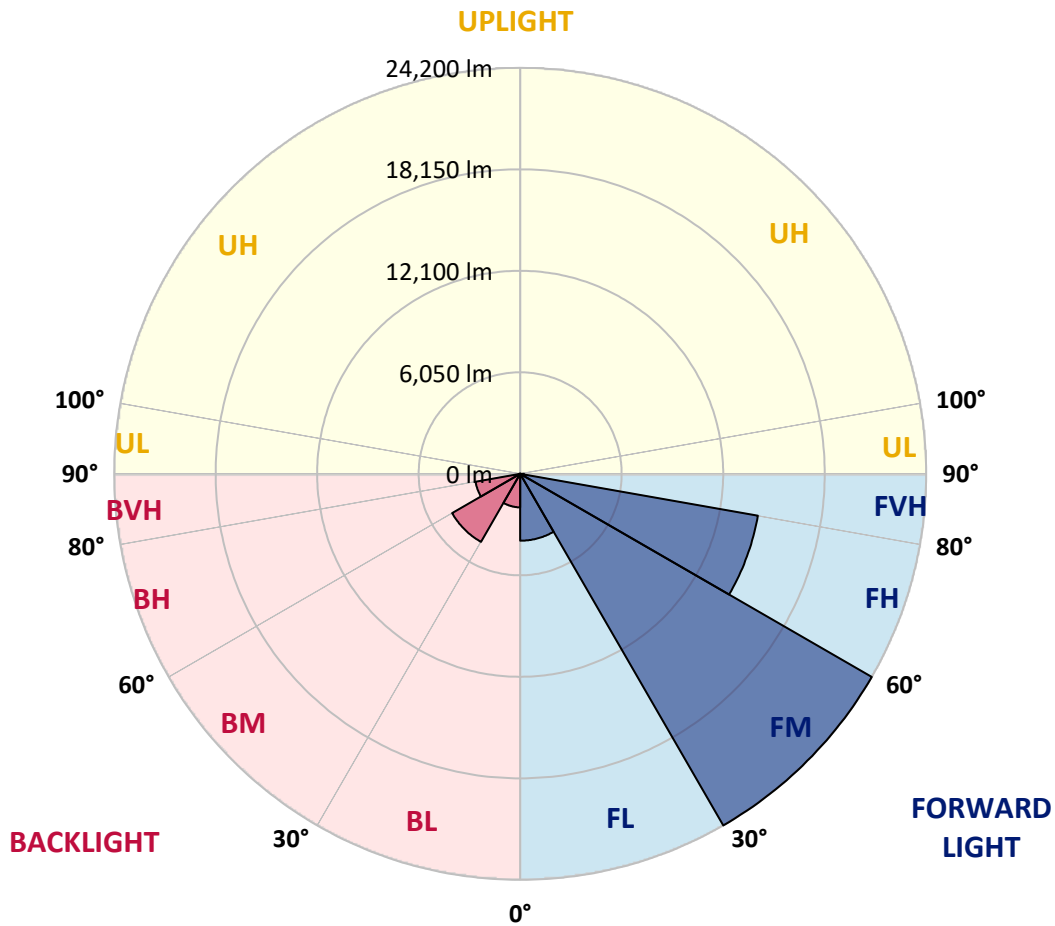
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3986.0	7.6			
FM (30°-60°)	24199.6	46.3			
FH (60°-80°)	14384.9	27.5			G5
FVH (80°-90°)	214.0	0.4			G2/225
BL (0°-30°)	1998.9	3.8	B3/2500		
BM (30°-60°)	4683.9	9.0	B3/5000		
BH (60°-80°)	2701.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	80.3	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°	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9
2.5°	9148.7	9201.4	9171.3	9156.2	9129.9	9092.3	9062.2	8968.1	8870.3	8806.4
5°	9333.0	9385.7	9381.9	9397.0	9415.8	9427.1	9419.5	9314.2	9175.0	9065.9
7.5°	9175.0	9235.2	9284.1	9359.3	9491.0	9630.2	9697.9	9675.3	9532.4	9381.9
10°	8727.4	8791.3	8907.9	9084.7	9363.1	9664.1	9916.1	10032.7	9942.4	9776.9
12.5°	7907.3	7971.2	8200.7	8584.4	9050.9	9573.8	10055.3	10367.5	10390.1	10224.6
15°	6985.7	7049.6	7294.1	7775.6	8486.6	9325.5	10130.5	10721.1	10920.5	10777.5
17.5°	6413.9	6470.3	6654.6	7042.1	7783.2	8828.9	10104.2	11097.3	11552.5	11439.6
20°	6240.8	6289.7	6376.2	6647.1	7264.0	8313.6	9931.1	11450.9	12233.4	12169.4
22.5°	6425.1	6470.3	6496.6	6617.0	7004.5	7975.0	9713.0	11812.0	13023.3	13030.9
25°	6850.2	6895.4	6865.3	6940.5	7109.8	7869.7	9630.2	12237.1	14016.4	14099.2
27.5°	7549.9	7553.7	7482.2	7478.4	7504.8	8027.7	9716.7	12692.3	15269.1	15423.4
30°	8953.1	8896.6	8622.0	8324.9	8189.4	8501.7	9957.5	13230.2	16747.5	17022.1
32.5°	11116.1	11033.3	10529.3	9818.3	9103.5	9265.3	10390.1	13843.4	18357.6	18854.1
35°	13463.5	13440.9	12914.2	11857.2	10608.3	10352.5	11093.5	14648.4	20114.3	20904.3
37.5°	15645.3	15634.0	15333.1	14087.9	12568.2	11868.5	12222.1	15701.7	21995.2	23138.8
40°	17639.1	17672.9	17372.0	16258.5	14727.4	13813.3	13756.9	17003.3	24086.8	25572.7
42.5°	19362.0	19399.6	19094.9	18271.0	16860.4	15965.1	15641.5	18598.3	26129.4	28187.1
45°	20531.9	20765.1	20720.0	20061.7	19049.7	18120.6	17906.1	20599.6	28458.0	30959.6
47.5°	20862.9	21077.3	21415.9	21506.2	20889.2	19975.1	20230.9	23010.9	30812.9	33735.8
50°	20046.6	20246.0	20949.4	21886.1	22315.0	22032.8	22491.8	25595.3	33224.2	36504.5
52.5°	18436.6	18639.7	19527.5	21009.6	22758.9	23646.6	24760.1	28142.0	35560.3	39126.4
55°	16108.0	16322.4	17462.3	19140.0	21912.5	24312.5	26652.3	30685.0	37700.7	41485.1
57.5°	12940.6	13098.6	14283.5	16630.9	19783.3	23650.4	28047.9	33461.2	39717.0	43802.3
60°	8433.9	8573.1	9949.9	12568.2	16254.7	21438.5	28326.3	36557.1	42395.4	46815.5
62.5°	5608.8	5702.9	6519.2	8441.5	11447.1	17191.4	26697.5	39028.6	46322.7	52059.5
65°	3848.3	3942.4	4758.7	6097.9	7395.7	11371.9	22014.0	38701.4	49881.4	56223.8
67.5°	2746.1	2825.1	3517.3	4781.2	5353.0	6605.7	14923.0	34518.2	49369.8	56381.8
70°	1967.4	2012.6	2584.4	3724.2	4254.6	3968.7	8298.5	26400.3	43226.8	52063.2
72.5°	1376.8	1391.9	1794.4	2836.4	3427.0	2896.6	3949.9	17601.4	32693.8	40864.4
75°	932.9	951.7	1207.5	2080.3	2749.9	2211.9	2091.6	9438.3	19192.7	22619.7
77.5°	571.8	579.3	778.7	1422.0	2057.7	1685.3	1346.7	3998.8	7425.8	7290.4
80°	323.5	323.5	496.6	884.0	1403.1	1087.2	944.2	1700.3	2351.1	2065.2
82.5°	180.6	184.3	361.1	549.2	929.2	643.3	519.1	786.2	1015.7	899.1
85°	75.2	82.8	221.9	259.6	443.9	319.8	210.7	331.0	376.2	334.8
87.5°	7.5	11.3	67.7	48.9	52.7	64.0	30.1	64.0	52.7	52.7
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°
8655.9	0°	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9
8783.8	2.5°	8712.3	8655.9	8512.9	8347.4	8129.2	8023.9	7881.0	7783.2	7700.4	7707.9
9002.0	5°	8881.6	8738.7	8418.9	8020.1	7523.6	7170.0	6793.8	6534.2	6323.6	6278.4
9302.9	7.5°	9114.8	8889.1	8328.6	7610.1	6771.2	6135.5	5567.5	5202.6	4943.0	4860.2
9667.8	10°	9415.8	9088.5	8212.0	7094.7	5887.2	5078.4	4469.0	4183.1	4006.3	3946.1
10096.7	12.5°	9765.6	9318.0	8057.8	6466.5	4976.9	4198.2	3810.7	3667.8	3611.3	3592.5
10623.3	15°	10205.8	9603.9	7824.5	5721.7	4205.7	3660.2	3494.7	3475.9	3483.4	3475.9
11255.3	17.5°	10728.6	9916.1	7444.6	4954.3	3686.6	3385.6	3325.4	3340.5	3359.3	3355.5
11962.5	20°	11300.4	10224.6	6959.3	4273.4	3333.0	3190.0	3156.1	3171.2	3186.2	3178.7
12778.8	22.5°	11951.2	10555.6	6421.4	3743.0	3096.0	3009.4	2971.8	2975.6	2975.6	2960.5
13813.3	25°	12729.9	10920.5	5857.1	3366.8	2915.4	2847.7	2802.5	2787.5	2764.9	2719.8
15069.8	27.5°	13659.1	11308.0	5315.4	3103.5	2772.4	2708.5	2655.8	2618.2	2561.8	2486.5
16578.2	30°	14704.9	11778.2	4856.5	2938.0	2659.6	2595.6	2535.5	2479.0	2396.3	2302.2
18312.4	32.5°	15935.0	12282.3	4521.7	2828.9	2558.0	2490.3	2418.8	2351.1	2260.8	2166.8
20261.0	35°	17402.1	12891.7	4326.1	2753.6	2479.0	2388.7	2309.7	2234.5	2166.8	2084.0
22378.9	37.5°	18993.3	13538.7	4265.9	2716.0	2426.4	2287.2	2196.9	2144.2	2136.7	2087.8
24669.9	40°	20735.0	14306.1	4311.0	2693.4	2369.9	2189.4	2091.6	2080.3	2099.1	2012.6
27118.8	42.5°	22578.3	15216.5	4386.3	2667.1	2290.9	2091.6	1997.5	1997.5	1982.5	1862.1
29706.9	45°	24572.0	16266.0	4461.5	2603.2	2196.9	1993.8	1922.3	1895.9	1832.0	1715.4
32310.1	47.5°	26580.8	17334.4	4517.9	2486.5	2084.0	1911.0	1847.0	1786.9	1692.8	1587.5
34864.3	50°	28488.1	18293.6	4457.7	2313.5	1956.1	1832.0	1764.3	1681.5	1580.0	1508.5
37283.2	52.5°	30192.2	19125.0	4201.9	2110.4	1820.7	1749.2	1689.0	1602.5	1519.8	1444.5
39465.0	55°	31674.3	19798.3	3750.5	1918.5	1700.3	1677.8	1617.6	1508.5	1395.6	1331.7
41628.0	57.5°	33096.3	20309.9	3186.2	1760.5	1591.2	1598.8	1508.5	1410.7	1305.3	1237.6
44543.4	60°	34988.5	20994.6	2614.4	1613.8	1474.6	1497.2	1399.4	1327.9	1196.3	1109.7
49542.8	62.5°	38012.9	22059.2	2076.5	1433.2	1339.2	1346.7	1305.3	1218.8	1060.8	959.3
53248.2	65°	40413.0	21667.9	1636.4	1237.6	1185.0	1196.3	1196.3	1102.2	932.9	816.3
53447.6	67.5°	40142.1	18553.2	1305.3	1045.8	1038.3	1045.8	1072.1	993.1	827.6	733.6
49377.3	70°	36978.4	14757.5	1045.8	869.0	902.8	884.0	959.3	906.6	744.8	650.8
38280.0	72.5°	30173.4	10630.8	797.5	718.5	692.2	722.3	865.2	816.3	620.7	515.4
20276.1	75°	17631.5	5672.8	594.4	568.0	500.3	601.9	767.4	695.9	474.0	379.9
6214.5	77.5°	5740.5	1978.7	436.4	417.6	372.4	485.3	654.6	586.8	387.5	300.9
1820.7	80°	1538.6	598.1	297.2	274.6	240.8	361.1	519.1	466.5	278.4	195.6
782.5	82.5°	616.9	252.0	173.0	154.2	131.7	248.3	410.0	376.2	206.9	124.1
244.5	85°	199.4	82.8	64.0	48.9	60.2	154.2	244.5	255.8	146.7	64.0
37.6	87.5°	26.3	11.3	11.3	15.0	11.3	26.3	75.2	71.5	41.4	7.5
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>
8655.9
7632.7
6176.9
4777.5
3901.0
3581.2
3472.1
3348.0
3175.0
2953.0
2712.3
2479.0
2294.7
2170.6
2076.5
2084.0
2016.3
1862.1
1711.6
1583.7
1497.2
1437.0
1324.2
1230.1
1098.4
951.7
805.0
718.5
639.5
504.1
368.7
289.7
191.9
124.1
48.9
0.0
0.0

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