

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: P955701

Luminaire Tested: **GALN-SB8C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53636 lumens
Efficiency: N/A
Efficacy: 134.2 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

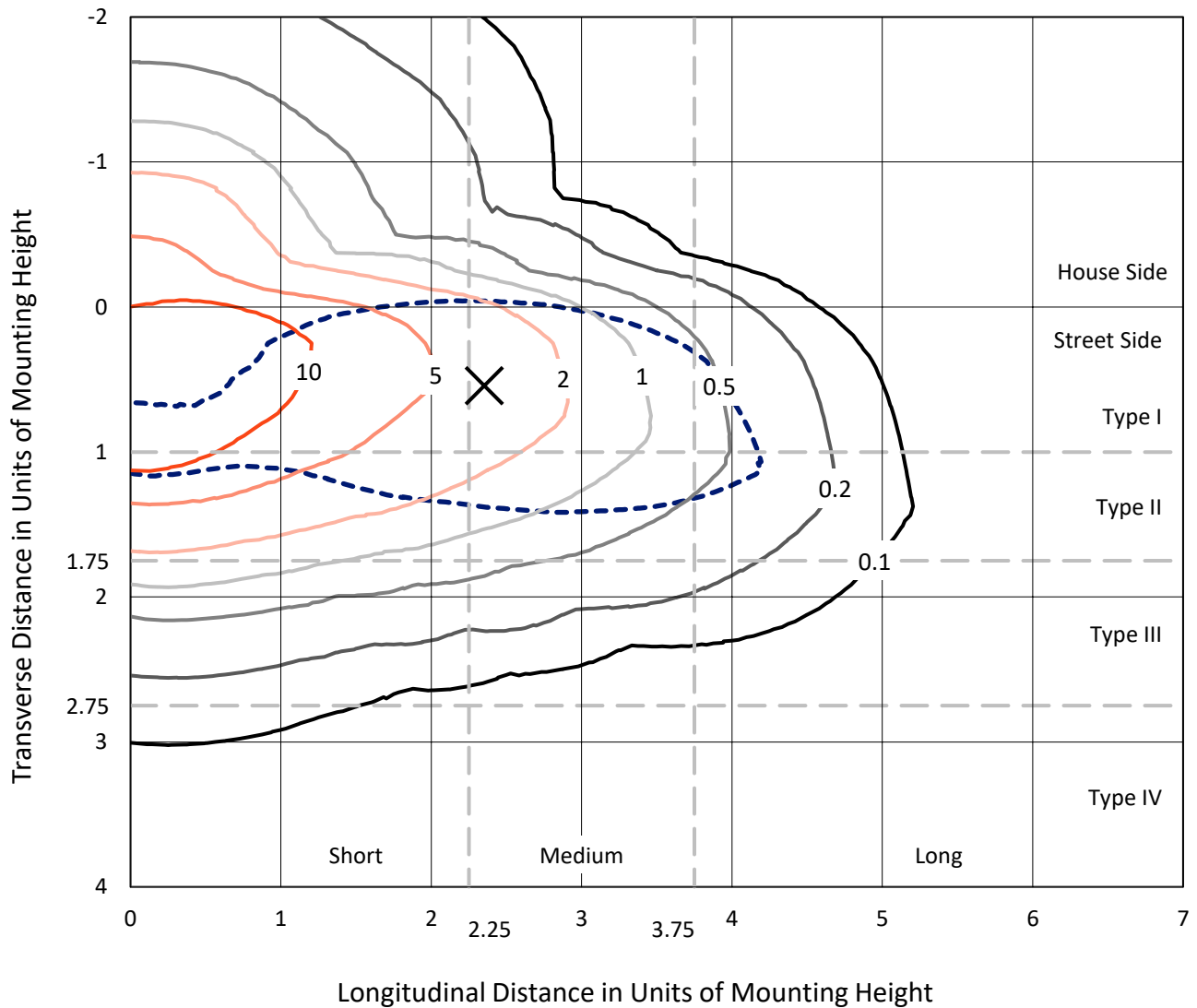
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

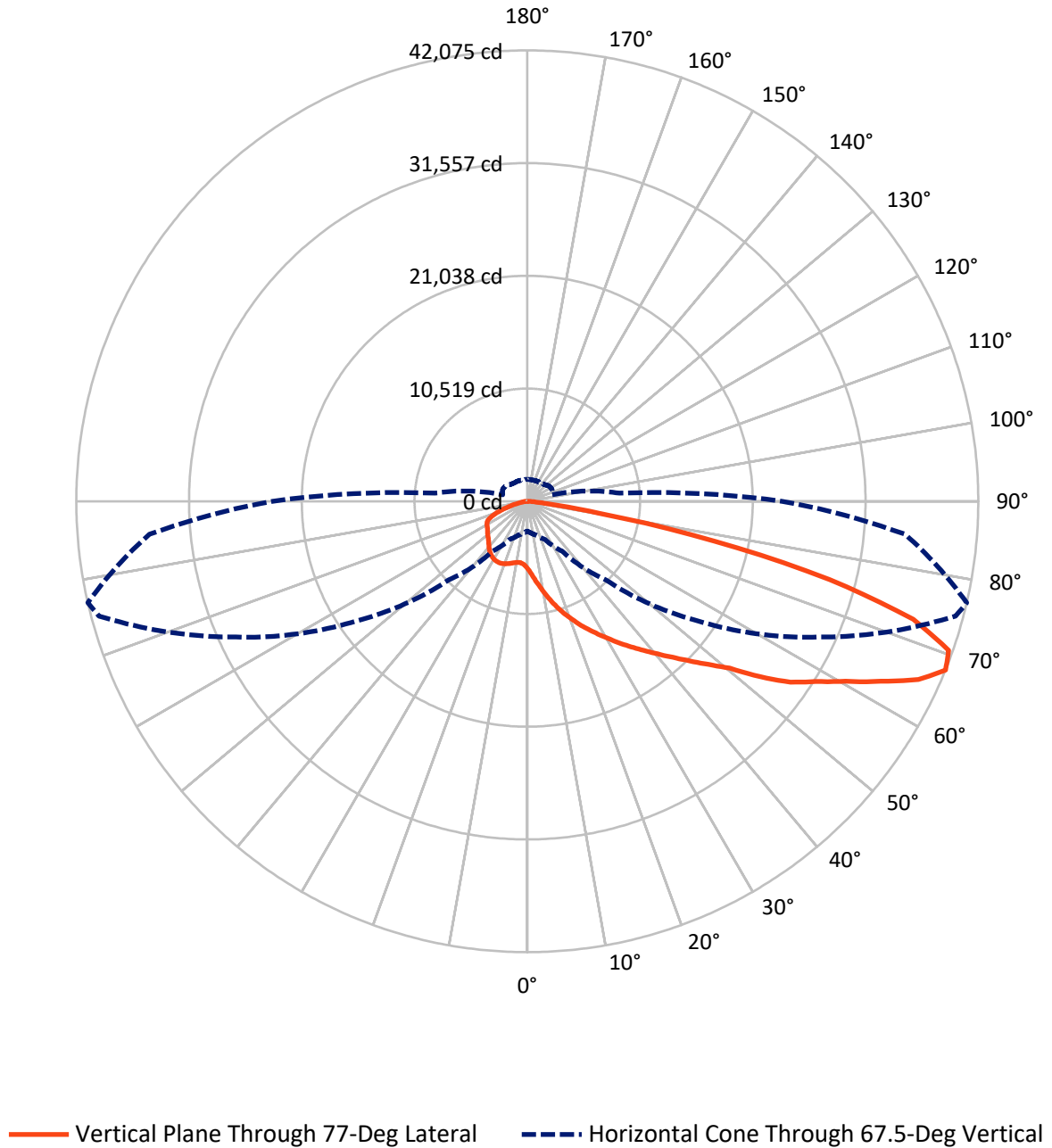
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10145.8	0.0	10145.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	43490.2	0.0	43490.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	53636.0	0.0	53636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.5	1.3
10°-20°	2423.4	4.5
20°-30°	4575.5	8.5
30°-40°	7371.1	13.7
40°-50°	10082.4	18.8
50°-60°	11373.0	21.2
60°-70°	10615.3	19.8
70°-80°	5818.9	10.8
80°-90°	701.9	1.3
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°	53636.0	100.0
0°-180°	53636.0	100.0

Coefficient of Utilization

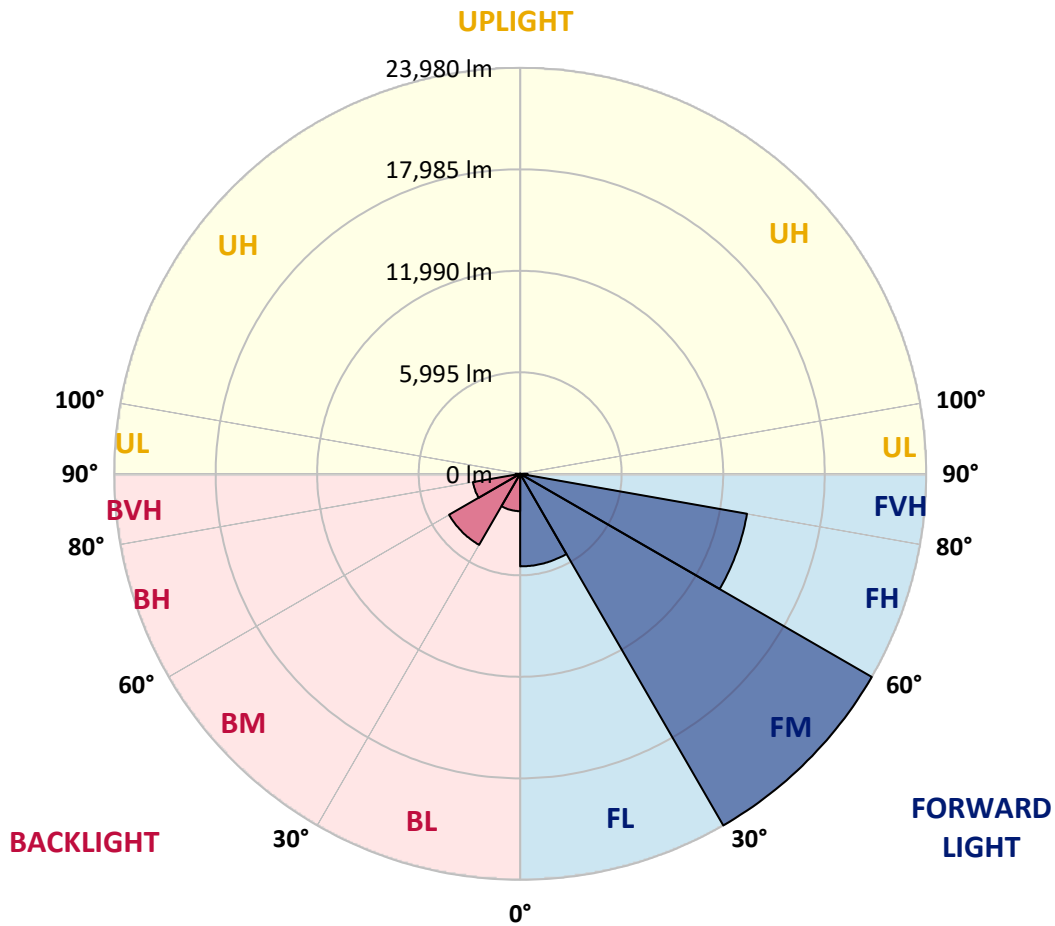


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5467.5	10.2			
FM (30°-60°)	23980.1	44.7			
FH (60°-80°)	13603.7	25.4			G5
FVH (80°-90°)	438.9	0.8			G3/500
BL (0°-30°)	2205.9	4.1	B3/2500		
BM (30°-60°)	4846.4	9.0	B3/5000		
BH (60°-80°)	2830.5	5.3	B4/5000		G4/5000
BVH (80°-90°)	262.9	0.5			G3/500
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°	77°
0°	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2
2.5°	7879.6	7935.0	7865.8	7865.8	7633.2	7511.4	7278.8	7101.6	6783.2	6727.8
5°	9313.8	9383.0	9286.1	9244.6	8970.5	8718.5	8328.1	7943.3	7375.7	7317.6
7.5°	10424.0	10512.6	10426.8	10382.5	10138.8	9856.4	9399.6	8862.5	8062.3	7948.8
10°	11329.4	11343.2	11315.5	11332.1	11141.1	10908.5	10440.6	9814.9	8815.4	8660.4
12.5°	11841.6	11905.2	11960.6	12060.3	12027.1	11883.1	11462.3	10714.7	9612.8	9413.5
15°	12082.4	12193.2	12317.8	12547.6	12733.1	12769.1	12447.9	11681.0	10424.0	10183.1
17.5°	12168.3	12273.5	12470.1	12802.3	13201.0	13469.5	13325.6	12619.6	11226.9	10950.1
20°	12603.0	12633.4	12752.5	13068.1	13500.0	13945.8	14053.7	13522.1	12021.5	11708.7
22.5°	13533.2	13472.3	13505.5	13649.5	13959.6	14391.5	14637.9	14319.5	12838.3	12478.4
25°	15069.8	14892.6	14715.4	14549.3	14707.1	14950.8	15230.4	15116.9	13693.8	13237.0
27.5°	17010.7	16794.7	16404.3	15858.9	15667.9	15753.7	15878.3	15856.1	14485.6	14023.3
30°	18921.0	18669.1	18204.0	17414.9	16911.0	16684.0	16589.8	16526.1	15346.7	14853.9
32.5°	20446.6	20247.2	19790.4	18907.2	18176.3	17788.7	17475.8	17248.8	16246.5	15753.7
35°	21781.1	21595.6	21072.3	20108.8	19314.2	18901.7	18491.9	18007.4	17182.3	16684.0
37.5°	22999.3	22813.8	22096.7	21094.4	20294.3	20009.1	19643.7	18821.4	18120.9	17650.2
40°	23769.0	23727.4	23057.4	21922.3	21091.7	20950.5	20828.6	19765.5	19161.9	18724.5
42.5°	23965.5	24056.9	23525.3	22592.3	21800.4	21686.9	21972.1	20834.2	20330.3	19912.2
45°	23492.1	23755.1	23406.3	22772.2	22304.3	22243.4	22985.4	22002.6	21623.3	21241.2
47.5°	22293.3	22739.0	22595.1	22506.5	22440.0	22703.0	23876.9	23242.9	23087.9	22755.6
50°	19873.5	20717.9	20969.8	21529.1	22171.4	23060.2	24688.2	24596.8	24798.9	24463.9
52.5°	15690.0	16852.8	18314.7	19715.6	21346.4	22941.1	25579.7	26540.4	27393.1	27210.4
55°	12951.8	13475.1	14599.2	17168.5	19746.1	22440.0	25981.1	28110.2	29968.0	29804.6
57.5°	10847.6	11315.5	12007.7	14153.4	17326.3	21302.1	26230.3	29068.2	31731.6	31715.0
60°	8591.2	9086.7	9795.5	11315.5	14499.5	19336.3	26174.9	30159.0	33982.6	34121.0
62.5°	6044.0	6589.4	7375.7	8793.3	11611.8	16789.2	25045.3	30948.1	36632.2	37008.7
65°	3973.0	4333.0	4925.5	6149.2	8652.1	13513.8	22888.5	31050.5	39467.3	40104.1
67.5°	2785.3	2923.7	3272.6	3937.0	5703.4	10363.1	19452.6	29990.1	41358.3	42075.4
70°	2173.4	2242.6	2419.8	2685.6	3582.6	6968.7	14906.5	27232.6	40954.1	41701.6
72.5°	1877.2	1943.6	2010.0	2043.3	2403.2	4302.5	10097.3	22769.5	37147.1	37653.8
75°	1702.7	1719.3	1774.7	1763.6	1832.9	2790.8	5828.0	16589.8	29309.1	29134.6
77.5°	1431.4	1453.5	1544.9	1531.1	1628.0	1907.6	3026.1	10706.4	19001.3	17816.3
80°	1212.7	1223.7	1323.4	1306.8	1414.8	1381.6	1544.9	5457.0	8059.6	6827.5
82.5°	420.8	520.5	1010.6	1041.0	1079.8	836.1	891.5	2226.0	2461.3	1885.5
85°	204.9	218.7	515.0	730.9	728.2	420.8	434.7	794.6	775.2	609.1
87.5°	33.2	41.5	60.9	285.2	227.0	110.7	149.5	155.0	160.6	138.4
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°
6293.2	0°	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2	6293.2
6517.4	2.5°	6362.4	6224.0	5933.2	5664.7	5454.3	5252.2	5138.6	5041.7	4986.4	4975.3
6822.0	5°	6534.0	6248.9	5720.1	5274.3	4983.6	4767.6	4654.1	4582.1	4546.1	4524.0
7231.7	7.5°	6780.5	6362.4	5609.3	5102.6	4798.1	4643.0	4584.9	4573.8	4571.1	4573.8
7727.3	10°	7121.0	6547.9	5598.2	5061.1	4806.4	4720.6	4717.8	4720.6	4731.6	4734.4
8267.2	12.5°	7489.2	6738.9	5642.5	5097.1	4911.6	4864.5	4856.2	4853.5	4861.8	4867.3
8812.7	15°	7890.7	6990.9	5717.3	5174.6	5027.9	4978.1	4969.7	4953.1	4950.4	4947.6
9385.8	17.5°	8303.2	7240.1	5800.3	5257.7	5102.6	5033.4	5003.0	4964.2	4933.8	4925.5
9978.3	20°	8721.3	7486.5	5858.5	5299.2	5108.2	5011.3	4950.4	4883.9	4831.3	4800.9
10576.3	22.5°	9167.0	7743.9	5894.5	5288.1	5058.3	4925.5	4814.7	4737.2	4656.9	4604.3
11179.9	25°	9601.7	7968.2	5891.7	5230.0	4961.4	4792.6	4651.4	4551.7	4440.9	4385.6
11802.8	27.5°	10019.8	8170.3	5822.5	5127.6	4823.0	4634.7	4465.9	4346.8	4238.8	4186.2
12431.3	30°	10451.7	8339.2	5714.5	4978.1	4659.7	4452.0	4266.5	4164.1	4067.2	4017.3
13095.8	32.5°	10880.8	8494.3	5562.2	4792.6	4471.4	4272.0	4089.3	3995.2	3937.0	3937.0
13810.1	35°	11334.9	8602.2	5360.1	4576.6	4272.0	4081.0	3937.0	3881.7	3876.1	3842.9
14565.9	37.5°	11813.9	8671.4	5113.7	4355.1	4075.5	3895.5	3851.2	3784.8	3729.4	3657.4
15396.5	40°	12317.8	8740.7	4817.5	4125.3	3867.8	3768.1	3748.8	3660.2	3502.4	3325.2
16337.9	42.5°	12929.7	8787.7	4510.2	3895.5	3649.1	3615.9	3643.6	3491.3	3239.3	3106.4
17473.0	45°	13638.4	8865.3	4227.7	3668.5	3424.8	3424.8	3541.1	3341.8	3134.1	3051.1
18768.8	47.5°	14557.6	9045.2	3964.7	3419.3	3217.2	3272.6	3314.1	3161.8	3045.5	2943.1
20346.9	50°	15886.6	9477.1	3693.4	3167.3	3059.4	3170.1	3112.0	3023.4	2887.7	2804.7
22855.3	52.5°	17536.7	9731.8	3452.5	2940.3	2923.7	3034.5	2951.4	2868.3	2765.9	2655.1
24757.4	55°	18660.8	9778.9	3250.4	2774.2	2832.3	2821.3	2790.8	2716.1	2660.7	2513.9
26634.5	57.5°	19917.8	9873.0	3084.3	2674.5	2774.2	2652.4	2641.3	2577.6	2505.6	2406.0
28924.2	60°	21421.1	10019.8	2940.3	2635.8	2724.4	2541.6	2486.3	2461.3	2389.4	2339.5
31679.0	62.5°	23060.2	10152.7	2793.6	2641.3	2666.2	2433.7	2350.6	2342.3	2298.0	2281.4
34265.0	65°	24178.7	9790.0	2610.8	2635.8	2574.9	2322.9	2217.7	2214.9	2178.9	2173.4
35386.3	67.5°	23788.3	8641.0	2364.4	2558.2	2480.7	2212.2	2095.9	2084.8	2037.7	2040.5
34215.1	70°	21833.7	7001.9	2023.9	2367.2	2364.4	2112.5	1968.5	1932.5	1868.8	1879.9
29749.3	72.5°	18168.0	5188.5	1567.1	2048.8	2178.9	2021.1	1821.8	1763.6	1683.3	1694.4
21961.0	75°	13120.7	3527.3	1140.7	1558.8	1896.5	1913.1	1677.8	1578.1	1481.2	1497.8
12223.6	77.5°	6714.0	1999.0	838.9	1074.2	1489.5	1738.7	1547.7	1414.8	1392.6	1547.7
3524.5	80°	2190.0	1002.3	581.4	753.1	977.3	1423.1	1356.6	1204.4	1198.8	1234.8
739.2	82.5°	653.4	423.6	373.8	495.6	539.9	1090.9	1171.1	910.9	783.5	825.1
246.4	85°	224.3	204.9	213.2	246.4	257.5	639.6	819.5	603.6	570.3	628.5
55.4	87.5°	52.6	72.0	60.9	55.4	55.4	155.0	318.4	251.9	348.9	232.6
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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180°
6293.2
4975.3
4521.2
4582.1
4737.2
4870.1
4944.8
4933.8
4811.9
4607.1
4385.6
4183.4
4014.6
3939.8
3834.6
3646.3
3300.2
3109.2
3064.9
2940.3
2796.3
2633.0
2516.7
2372.7
2353.4
2281.4
2170.6
2040.5
1891.0
1691.7
1503.4
1525.5
1060.4
852.7
620.2
224.3
0.0

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