

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: P953286

Luminaire Tested: **GALN-SB6D-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953286
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-SB6D-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60120 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

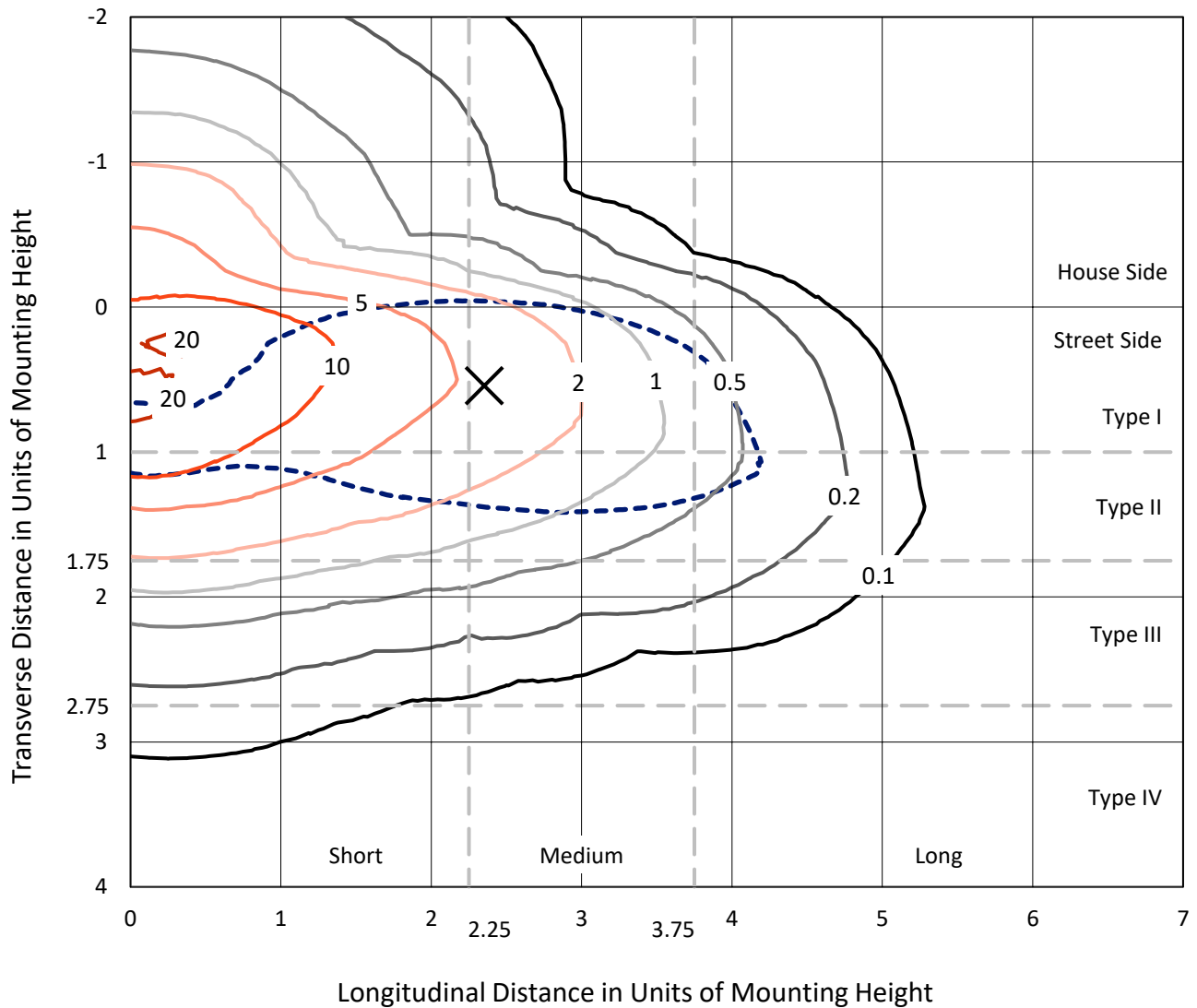
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

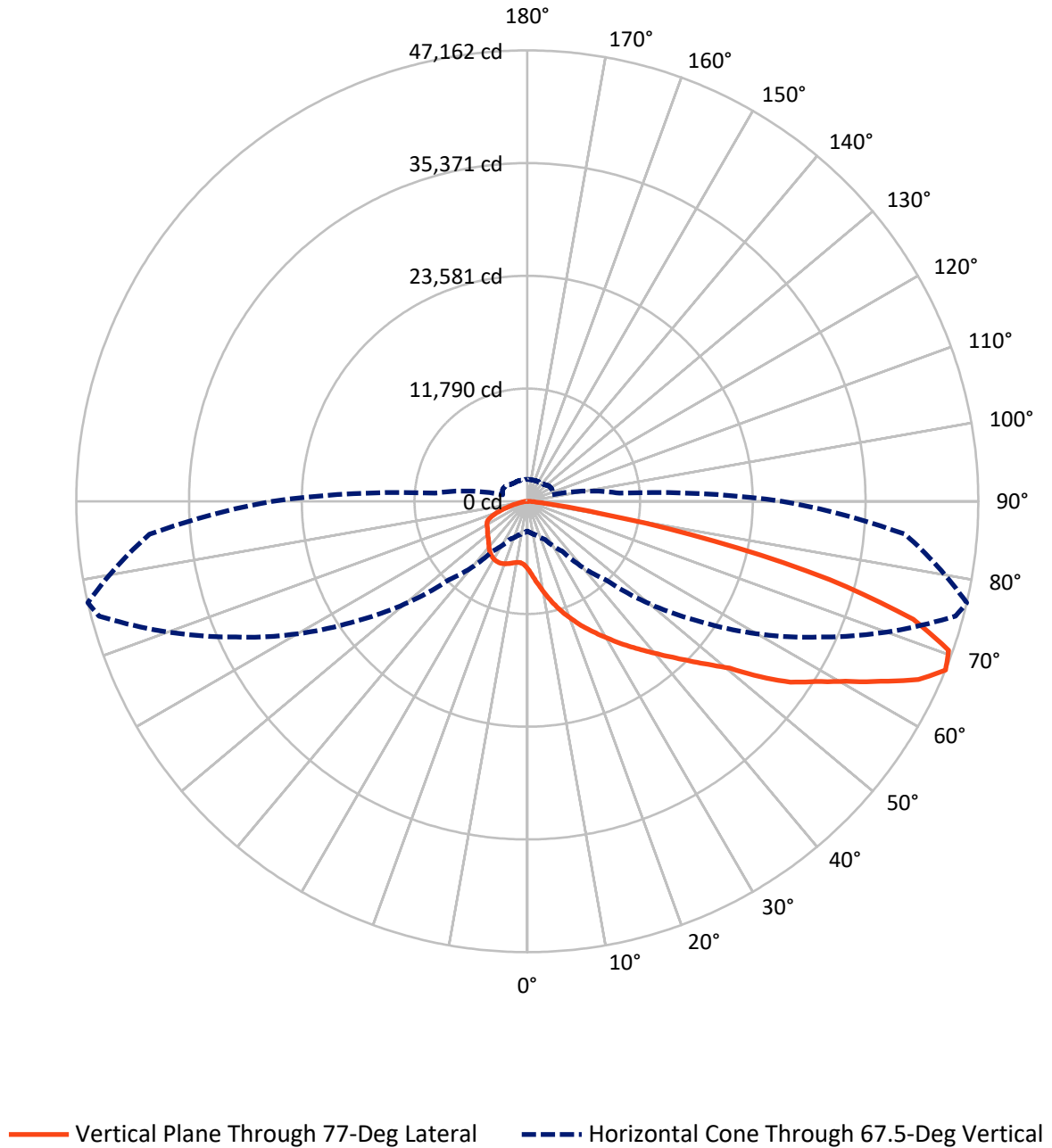
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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	11372.3	0.0	11372.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	48747.7	0.0	48747.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	60120.0	0.0	60120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.1	1.3
10°-20°	2716.3	4.5
20°-30°	5128.7	8.5
30°-40°	8262.2	13.7
40°-50°	11301.2	18.8
50°-60°	12747.8	21.2
60°-70°	11898.5	19.8
70°-80°	6522.4	10.8
80°-90°	786.8	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°	60120.0	100.0
0°-180°	60120.0	100.0

Coefficient of Utilization

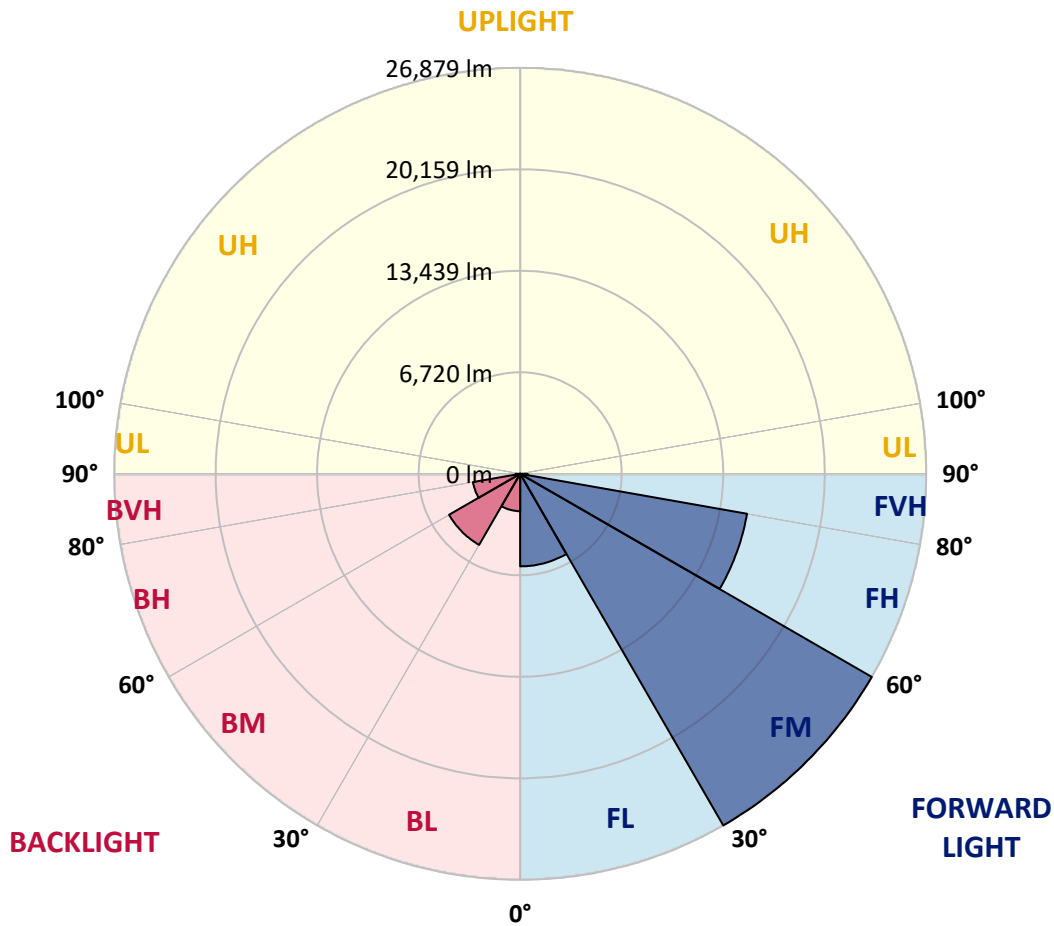


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6128.5	10.2			
FM (30°-60°)	26879.0	44.7			
FH (60°-80°)	15248.2	25.4			G5
FVH (80°-90°)	492.0	0.8			G3/500
BL (0°-30°)	2472.6	4.1	B3/2500		
BM (30°-60°)	5432.3	9.0	B4/8500		
BH (60°-80°)	3172.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	294.7	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°	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9
2.5°	8832.2	8894.2	8816.7	8816.7	8556.0	8419.4	8158.7	7960.1	7603.2	7541.2
5°	10439.7	10517.3	10408.7	10362.1	10054.9	9772.5	9334.9	8903.5	8267.4	8202.2
7.5°	11684.2	11783.5	11687.3	11637.6	11364.5	11048.0	10535.9	9933.9	9037.0	8909.8
10°	12699.0	12714.5	12683.4	12702.1	12487.9	12227.2	11702.8	11001.4	9881.1	9707.3
12.5°	13273.1	13344.5	13406.5	13518.2	13481.0	13319.6	12847.9	12010.0	10774.9	10551.4
15°	13543.1	13667.2	13806.9	14064.4	14272.4	14312.7	13952.7	13093.1	11684.2	11414.2
17.5°	13639.3	13757.2	13977.5	14349.9	14796.8	15097.9	14936.5	14145.1	12584.1	12273.8
20°	14126.5	14160.6	14294.1	14647.9	15132.0	15631.6	15752.7	15156.8	13474.8	13124.1
22.5°	15169.2	15101.0	15138.2	15299.6	15647.2	16131.3	16407.5	16050.6	14390.3	13986.9
25°	16891.6	16693.0	16494.4	16308.2	16485.1	16758.2	17071.6	16944.4	15349.2	14837.2
27.5°	19067.1	18825.0	18387.4	17776.1	17561.9	17658.1	17797.8	17773.0	16236.8	15718.5
30°	21208.4	20926.0	20404.6	19520.2	18955.3	18700.9	18595.4	18524.0	17201.9	16649.5
32.5°	22918.3	22694.9	22182.8	21192.9	20373.6	19939.1	19588.4	19334.0	18210.5	17658.1
35°	24414.2	24206.2	23619.7	22539.7	21649.1	21186.7	20727.4	20184.3	19259.5	18700.9
37.5°	25779.6	25571.7	24767.9	23644.5	22747.6	22428.0	22018.4	21096.7	20311.5	19783.9
40°	26642.4	26595.8	25844.8	24572.4	23641.4	23483.1	23346.6	22154.9	21478.4	20988.0
42.5°	26862.7	26965.1	26369.3	25323.4	24435.9	24308.6	24628.3	23352.8	22788.0	22319.4
45°	26332.0	26626.9	26235.8	25525.2	25000.7	24932.4	25764.1	24662.4	24237.3	23809.0
47.5°	24988.3	25487.9	25326.5	25227.2	25152.8	25447.6	26763.4	26052.7	25878.9	25506.5
50°	22275.9	23222.5	23504.9	24131.7	24851.7	25847.9	27672.7	27570.3	27796.8	27421.3
52.5°	17586.8	18890.2	20528.7	22099.0	23926.9	25714.5	28672.0	29748.8	30704.7	30499.9
55°	14517.5	15104.1	16364.0	19244.0	22133.2	25152.8	29122.0	31508.4	33590.8	33407.7
57.5°	12159.0	12683.4	13459.3	15864.4	19420.8	23877.3	29401.3	32582.2	35567.6	35549.0
60°	9629.7	10185.2	10979.7	12683.4	16252.3	21673.9	29339.2	33804.9	38090.7	38245.8
62.5°	6774.6	7386.0	8267.4	9856.3	13015.5	18818.8	28073.0	34689.4	41060.6	41482.7
65°	4453.3	4856.8	5520.9	6892.6	9698.0	15147.5	25655.5	34804.2	44238.4	44952.2
67.5°	3122.0	3277.2	3668.2	4413.0	6392.9	11615.9	21804.2	33615.6	46358.0	47161.8
70°	2436.1	2513.7	2712.3	3010.3	4015.8	7811.2	16708.5	30524.7	45904.9	46742.9
72.5°	2104.1	2178.6	2253.0	2290.3	2693.7	4822.6	11318.0	25522.1	41637.8	42205.7
75°	1908.6	1927.2	1989.3	1976.8	2054.4	3128.2	6532.6	18595.4	32852.2	32656.7
77.5°	1604.4	1629.3	1731.7	1716.2	1824.8	2138.2	3392.0	12000.7	21298.4	19970.1
80°	1359.3	1371.7	1483.4	1464.8	1585.8	1548.6	1731.7	6116.7	9033.9	7652.9
82.5°	471.7	583.4	1132.7	1166.9	1210.3	937.2	999.3	2495.1	2758.9	2113.4
85°	229.6	245.2	577.2	819.3	816.2	471.7	487.2	890.7	868.9	682.7
87.5°	37.2	46.6	68.3	319.6	254.5	124.1	167.6	173.8	180.0	155.2
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°
7053.9	0°	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9	7053.9
7305.3	2.5°	7131.5	6976.4	6650.5	6349.5	6113.6	5887.1	5759.8	5651.2	5589.2	5576.7
7646.7	5°	7323.9	7004.3	6411.5	5911.9	5586.1	5344.0	5216.8	5136.1	5095.7	5070.9
8106.0	7.5°	7600.1	7131.5	6287.4	5719.5	5378.1	5204.3	5139.2	5126.8	5123.7	5126.8
8661.5	10°	7981.8	7339.5	6275.0	5672.9	5387.4	5291.2	5288.1	5291.2	5303.6	5306.8
9266.6	12.5°	8394.6	7553.6	6324.7	5713.3	5505.4	5452.6	5443.3	5440.2	5449.5	5455.7
9878.0	15°	8844.6	7836.0	6408.4	5800.2	5635.7	5579.8	5570.5	5551.9	5548.8	5545.7
10520.4	17.5°	9307.0	8115.3	6501.5	5893.3	5719.5	5641.9	5607.8	5564.3	5530.2	5520.9
11184.5	20°	9775.6	8391.5	6566.7	5939.8	5725.7	5617.1	5548.8	5474.3	5415.4	5381.2
11854.8	22.5°	10275.2	8680.1	6607.1	5927.4	5669.8	5520.9	5396.7	5309.9	5219.9	5160.9
12531.4	25°	10762.5	8931.5	6604.0	5862.3	5561.2	5371.9	5213.6	5101.9	4977.8	4915.7
13229.6	27.5°	11231.1	9158.0	6526.4	5747.4	5406.1	5195.0	5005.7	4872.3	4751.2	4692.3
13934.1	30°	11715.2	9347.3	6405.3	5579.8	5223.0	4990.2	4782.3	4667.5	4558.8	4503.0
14678.9	32.5°	12196.2	9521.1	6234.7	5371.9	5011.9	4788.5	4583.7	4478.2	4413.0	4413.0
15479.6	35°	12705.2	9642.1	6008.1	5129.9	4788.5	4574.4	4413.0	4350.9	4344.7	4307.5
16326.8	37.5°	13242.0	9719.7	5731.9	4881.6	4568.2	4366.4	4316.8	4242.3	4180.2	4099.5
17257.8	40°	13806.9	9797.3	5399.9	4624.0	4335.4	4223.7	4202.0	4102.6	3925.8	3727.1
18312.9	42.5°	14492.7	9850.1	5055.4	4366.4	4090.2	4053.0	4084.0	3913.3	3630.9	3482.0
19585.3	45°	15287.2	9937.0	4738.8	4112.0	3838.9	3838.9	3969.2	3745.8	3513.0	3419.9
21037.7	47.5°	16317.5	10138.7	4444.0	3832.7	3606.1	3668.2	3714.7	3544.0	3413.7	3298.9
22806.6	50°	17807.1	10622.8	4139.9	3550.2	3429.2	3553.4	3488.2	3388.9	3236.8	3143.7
25618.3	52.5°	19656.7	10908.3	3869.9	3295.8	3277.2	3401.3	3308.2	3215.1	3100.3	2976.1
27750.3	55°	20916.7	10961.1	3643.3	3109.6	3174.7	3162.3	3128.2	3044.4	2982.3	2817.9
29854.4	57.5°	22325.6	11066.6	3457.1	2997.8	3109.6	2973.0	2960.6	2889.2	2808.5	2696.8
32420.8	60°	24010.7	11231.1	3295.8	2954.4	3053.7	2848.9	2786.8	2758.9	2678.2	2622.3
35508.7	62.5°	25847.9	11380.0	3131.3	2960.6	2988.5	2727.9	2634.8	2625.4	2575.8	2557.2
38407.2	65°	27101.7	10973.5	2926.5	2954.4	2886.1	2603.7	2485.8	2482.7	2442.3	2436.1
39664.1	67.5°	26664.1	9685.6	2650.3	2867.5	2780.6	2479.6	2349.2	2336.8	2284.1	2287.2
38351.4	70°	24473.1	7848.4	2268.6	2653.4	2650.3	2367.9	2206.5	2166.1	2094.8	2107.2
33345.6	72.5°	20364.3	5815.7	1756.5	2296.5	2442.3	2265.5	2042.0	1976.8	1886.8	1899.3
24615.9	75°	14706.8	3953.7	1278.6	1747.2	2125.8	2144.4	1880.6	1768.9	1660.3	1678.9
13701.3	77.5°	7525.7	2240.6	940.3	1204.1	1669.6	1948.9	1734.8	1585.8	1561.0	1734.8
3950.6	80°	2454.8	1123.4	651.7	844.1	1095.5	1595.1	1520.6	1350.0	1343.8	1384.1
828.6	82.5°	732.4	474.8	419.0	555.5	605.2	1222.7	1312.7	1021.0	878.3	924.8
276.2	85°	251.4	229.6	239.0	276.2	288.6	716.9	918.6	676.5	639.3	704.5
62.1	87.5°	59.0	80.7	68.3	62.1	62.1	173.8	356.9	282.4	391.0	260.7
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>
7053.9
5576.7
5067.8
5136.1
5309.9
5458.8
5542.6
5530.2
5393.6
5164.0
4915.7
4689.2
4499.9
4416.1
4298.2
4087.1
3699.2
3485.1
3435.4
3295.8
3134.4
2951.3
2821.0
2659.6
2637.9
2557.2
2433.0
2287.2
2119.6
1896.2
1685.1
1710.0
1188.6
955.8
695.2
251.4
0.0

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