

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: P953370

Luminaire Tested: **GALN-SB6D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953370
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-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45546 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

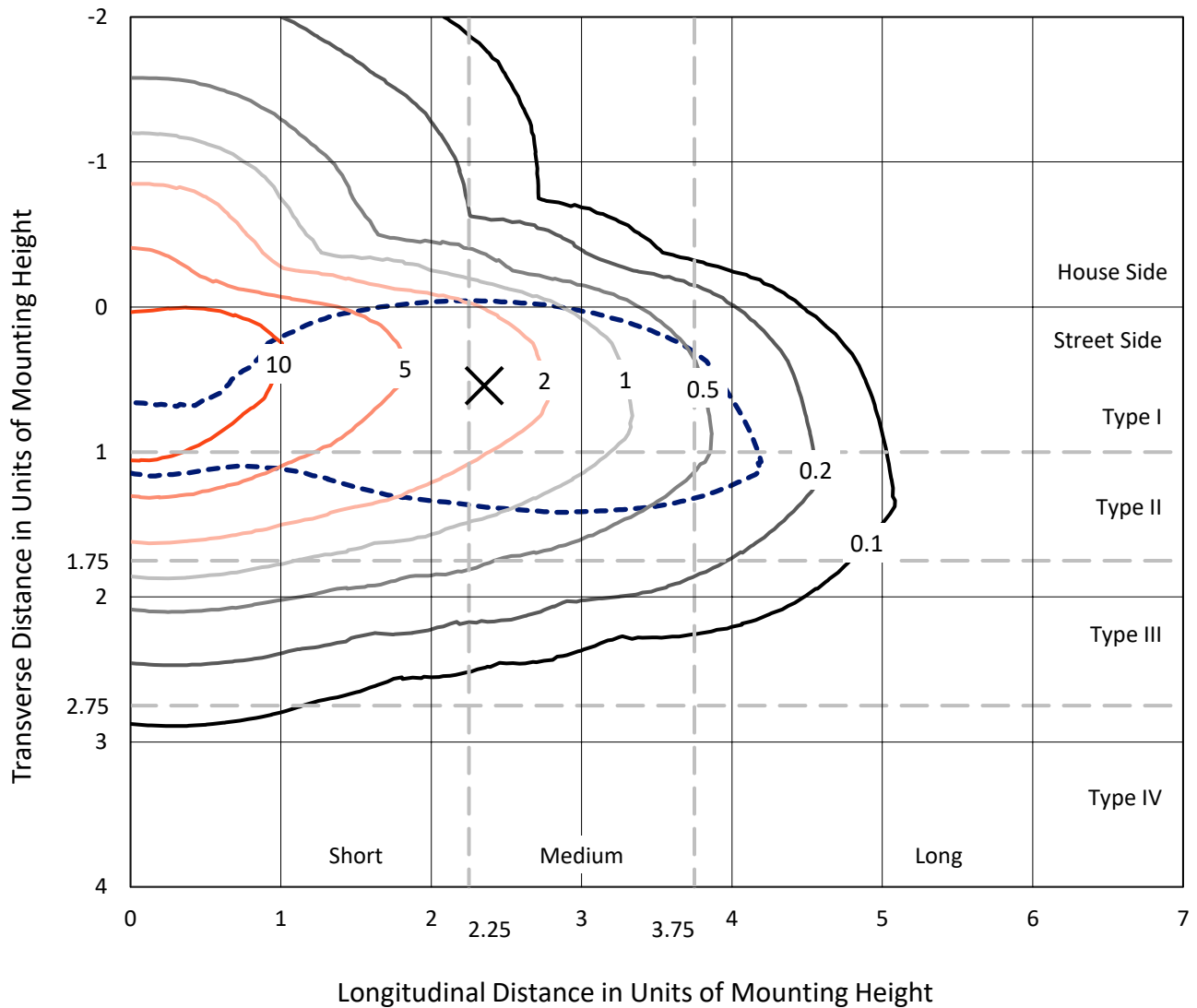
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

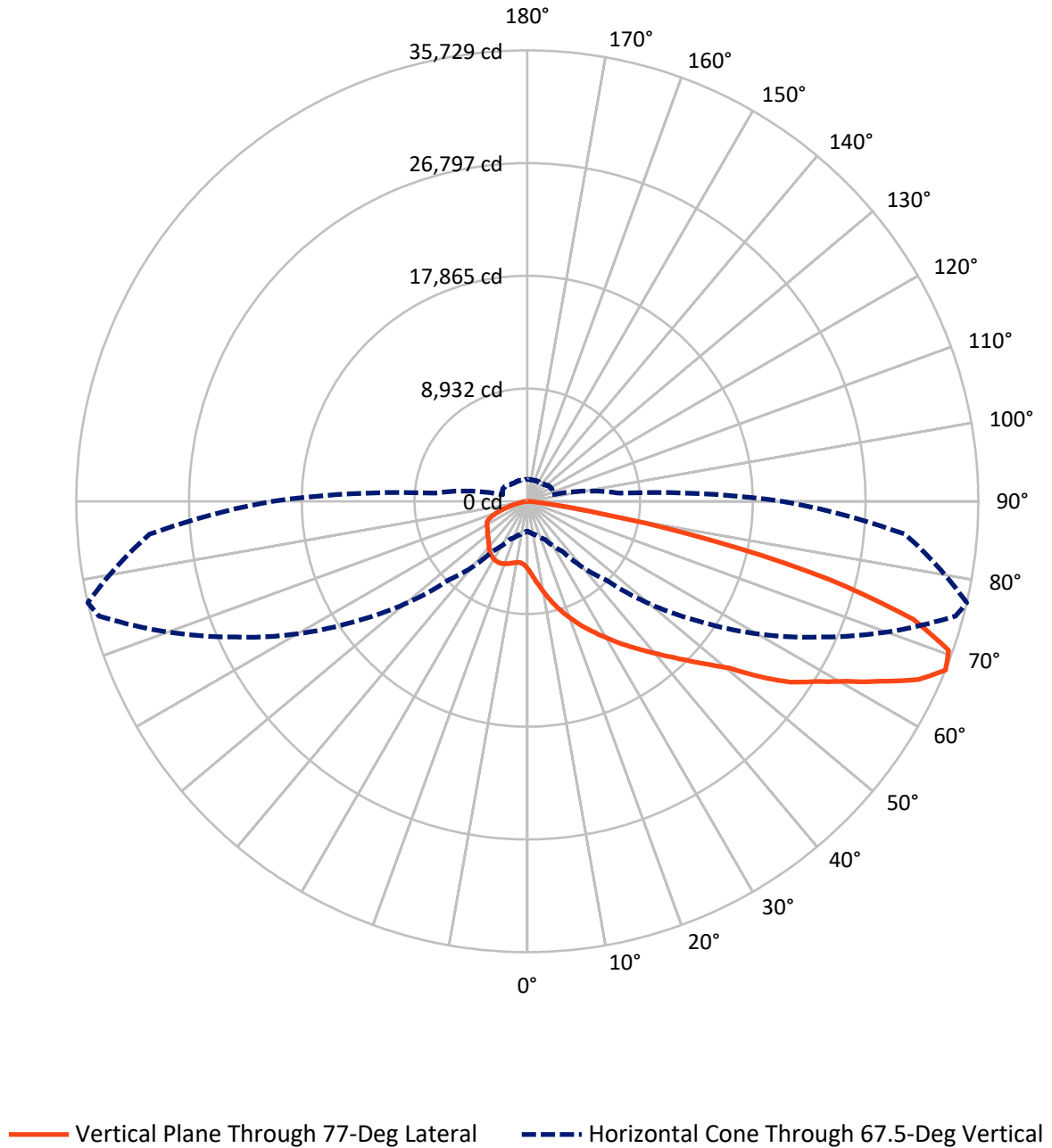
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	8615.5	0.0	8615.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	36930.5	0.0	36930.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	45546.0	0.0	45546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.8	1.3
10°-20°	2057.8	4.5
20°-30°	3885.4	8.5
30°-40°	6259.3	13.7
40°-50°	8561.6	18.8
50°-60°	9657.6	21.2
60°-70°	9014.1	19.8
70°-80°	4941.3	10.8
80°-90°	596.0	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°	45546.0	100.0
0°-180°	45546.0	100.0

Coefficient of Utilization



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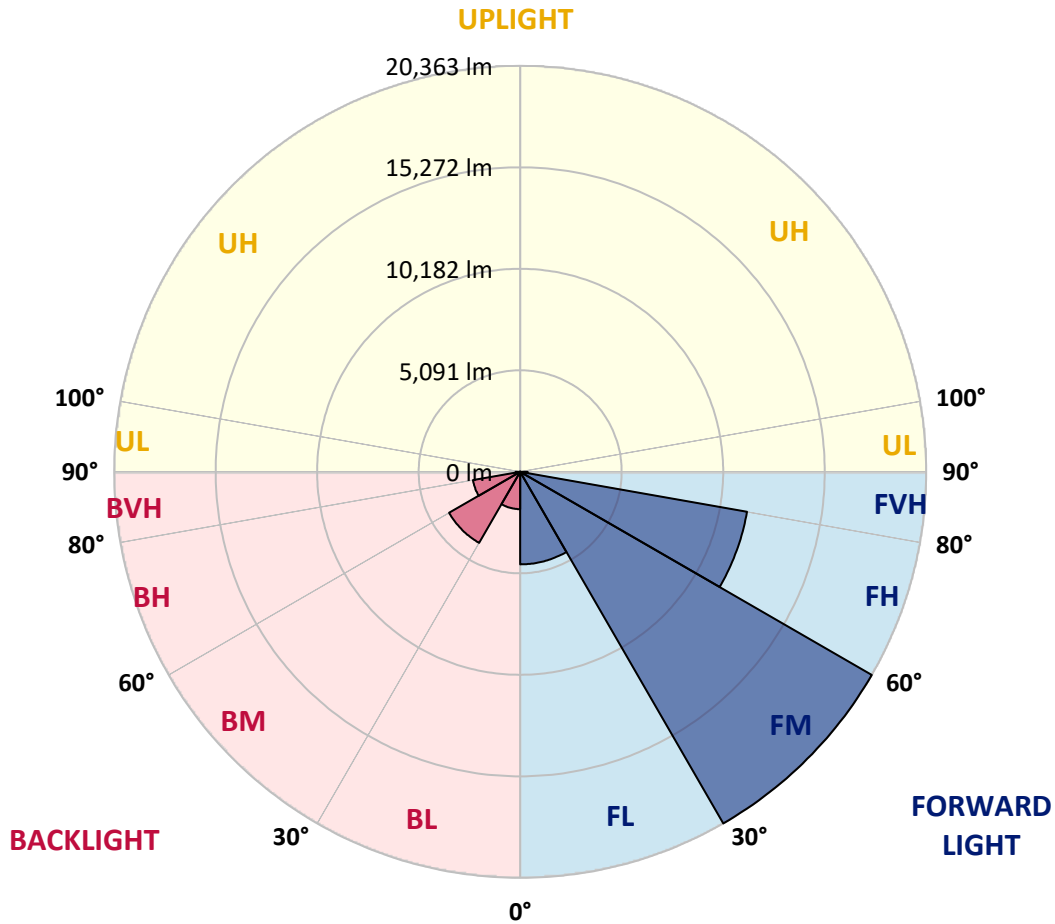
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4642.8	10.2			
FM (30°-60°)	20363.1	44.7			
FH (60°-80°)	11551.8	25.4			G4/12000
FVH (80°-90°)	372.7	0.8			G3/500
BL (0°-30°)	1873.2	4.1	B3/2500		
BM (30°-60°)	4115.4	9.0	B3/5000		
BH (60°-80°)	2403.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	223.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0
2.5°	6691.1	6738.1	6679.4	6679.4	6481.9	6378.4	6180.9	6030.5	5760.1	5713.1
5°	7909.0	7967.7	7885.5	7850.2	7617.4	7403.5	7072.0	6745.2	6263.2	6213.9
7.5°	8851.7	8927.0	8854.1	8816.5	8609.6	8369.8	7981.9	7525.7	6846.3	6749.9
10°	9620.5	9632.3	9608.8	9622.9	9460.7	9263.2	8865.8	8334.5	7485.8	7354.1
12.5°	10055.5	10109.6	10156.6	10241.2	10213.0	10090.8	9733.4	9098.6	8162.9	7993.6
15°	10260.0	10354.1	10459.9	10655.0	10812.5	10843.1	10570.4	9919.1	8851.7	8647.2
17.5°	10332.9	10422.3	10589.2	10871.3	11209.9	11437.9	11315.7	10716.1	9533.6	9298.4
20°	10702.0	10727.9	10829.0	11097.0	11463.8	11842.3	11934.0	11482.6	10208.3	9942.6
22.5°	11492.0	11440.3	11468.5	11590.7	11854.0	12220.8	12430.1	12159.7	10901.9	10596.2
25°	12796.8	12646.4	12495.9	12354.8	12488.8	12695.7	12933.2	12836.8	11628.3	11240.4
27.5°	14444.9	14261.5	13930.0	13466.9	13304.7	13377.5	13483.3	13464.5	12300.7	11908.1
30°	16067.1	15853.2	15458.2	14788.2	14360.3	14167.5	14087.6	14033.5	13031.9	12613.4
32.5°	17362.6	17193.3	16805.4	16055.4	15434.7	15105.6	14839.9	14647.1	13796.0	13377.5
35°	18495.8	18338.3	17893.9	17075.8	16401.0	16050.7	15702.7	15291.3	14590.7	14167.5
37.5°	19530.3	19372.7	18763.8	17912.7	17233.3	16991.1	16680.8	15982.5	15387.7	14988.0
40°	20183.9	20148.6	19579.6	18615.7	17910.4	17790.5	17687.0	16784.2	16271.7	15900.2
42.5°	20350.8	20428.4	19977.0	19184.7	18512.3	18415.9	18658.0	17691.7	17263.8	16908.8
45°	19948.7	20172.1	19875.9	19337.5	18940.1	18888.4	19518.5	18683.9	18361.8	18037.3
47.5°	18930.7	19309.3	19187.0	19111.8	19055.3	19278.7	20275.5	19737.2	19605.5	19323.4
50°	16875.9	17593.0	17806.9	18281.8	18827.3	19582.0	20964.4	20886.8	21058.4	20774.0
52.5°	13323.5	14310.9	15552.3	16741.9	18126.7	19480.9	21721.4	22537.3	23261.4	23106.2
55°	10998.3	11442.6	12397.1	14578.9	16767.8	19055.3	22062.4	23870.3	25447.9	25309.2
57.5°	9211.5	9608.8	10196.5	12018.6	14712.9	18089.1	22273.9	24683.8	26945.5	26931.4
60°	7295.3	7716.2	8318.1	9608.8	12312.5	16419.8	22226.9	25610.1	28856.9	28974.5
62.5°	5132.4	5595.5	6263.2	7467.0	9860.3	14256.8	21267.7	26280.2	31106.9	31426.6
65°	3373.8	3679.4	4182.5	5221.7	7347.1	11475.5	19436.2	26367.1	33514.4	34055.1
67.5°	2365.2	2482.7	2779.0	3343.2	4843.2	8800.0	16518.6	25466.7	35120.1	35729.1
70°	1845.6	1904.4	2054.8	2280.5	3042.3	5917.6	12658.1	23125.0	34776.9	35411.7
72.5°	1594.0	1650.4	1706.9	1735.1	2040.7	3653.5	8574.3	19335.1	31544.2	31974.4
75°	1445.9	1460.0	1507.0	1497.6	1556.4	2369.9	4949.0	14087.6	24888.3	24740.2
77.5°	1215.5	1234.3	1311.9	1300.1	1382.4	1619.9	2569.7	9091.6	16135.3	15129.1
80°	1029.8	1039.2	1123.8	1109.7	1201.4	1173.2	1311.9	4633.9	6843.9	5797.7
82.5°	357.4	442.0	858.1	884.0	916.9	710.0	757.0	1890.3	2090.1	1601.1
85°	174.0	185.7	437.3	620.7	618.3	357.4	369.1	674.8	658.3	517.2
87.5°	28.2	35.3	51.7	242.2	192.8	94.0	127.0	131.7	136.4	117.6
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°
5344.0	0°	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0
5534.4	2.5°	5402.7	5285.2	5038.3	4810.3	4631.6	4460.0	4363.6	4281.3	4234.3	4224.9
5793.0	5°	5548.5	5306.3	4857.3	4478.8	4231.9	4048.5	3952.1	3891.0	3860.4	3841.6
6141.0	7.5°	5757.7	5402.7	4763.2	4333.0	4074.4	3942.7	3893.4	3884.0	3881.6	3884.0
6561.8	10°	6046.9	5560.3	4753.8	4297.7	4081.4	4008.6	4006.2	4008.6	4018.0	4020.3
7020.3	12.5°	6359.6	5722.5	4791.5	4328.3	4170.8	4130.8	4123.8	4121.4	4128.5	4133.2
7483.4	15°	6700.5	5936.4	4854.9	4394.1	4269.5	4227.2	4220.2	4206.0	4203.7	4201.3
7970.1	17.5°	7050.8	6148.0	4925.5	4464.7	4333.0	4274.2	4248.4	4215.5	4189.6	4182.5
8473.2	20°	7405.8	6357.3	4974.8	4499.9	4337.7	4255.4	4203.7	4147.3	4102.6	4076.7
8981.1	22.5°	7784.4	6575.9	5005.4	4490.5	4295.4	4182.5	4088.5	4022.7	3954.5	3909.8
9493.6	25°	8153.5	6766.4	5003.1	4441.2	4213.1	4069.7	3949.8	3865.1	3771.1	3724.1
10022.6	27.5°	8508.5	6938.0	4944.3	4354.2	4095.5	3935.7	3792.3	3691.2	3599.5	3554.8
10556.3	30°	8875.3	7081.4	4852.6	4227.2	3956.8	3780.5	3623.0	3536.0	3453.7	3411.4
11120.5	32.5°	9239.7	7213.1	4723.3	4069.7	3797.0	3627.7	3472.5	3392.6	3343.2	3343.2
11727.1	35°	9625.2	7304.7	4551.7	3886.3	3627.7	3465.5	3343.2	3296.2	3291.5	3263.3
12368.9	37.5°	10032.0	7363.5	4342.4	3698.2	3460.8	3307.9	3270.3	3213.9	3166.9	3105.8
13074.2	40°	10459.9	7422.3	4090.8	3503.1	3284.4	3199.8	3183.3	3108.1	2974.1	2823.6
13873.6	42.5°	10979.5	7462.3	3829.9	3307.9	3098.7	3070.5	3094.0	2964.7	2750.7	2637.9
14837.5	45°	11581.3	7528.1	3590.1	3115.2	2908.3	2908.3	3007.0	2837.7	2661.4	2590.9
15937.8	47.5°	12361.9	7680.9	3366.7	2903.6	2731.9	2779.0	2814.2	2684.9	2586.2	2499.2
17277.9	50°	13490.4	8047.7	3136.3	2689.6	2597.9	2692.0	2642.6	2567.4	2452.2	2381.6
19408.0	52.5°	14891.6	8264.0	2931.8	2496.8	2482.7	2576.8	2506.2	2435.7	2348.7	2254.7
21023.2	55°	15846.1	8303.9	2760.1	2355.8	2405.1	2395.7	2369.9	2306.4	2259.4	2134.8
22617.2	57.5°	16913.5	8383.9	2619.1	2271.1	2355.8	2252.3	2242.9	2188.8	2127.7	2043.1
24561.5	60°	18190.2	8508.5	2496.8	2238.2	2313.4	2158.3	2111.3	2090.1	2029.0	1986.6
26900.8	62.5°	19582.0	8621.3	2372.2	2242.9	2264.1	2066.6	1996.1	1989.0	1951.4	1937.3
29096.7	65°	20531.8	8313.4	2217.1	2238.2	2186.5	1972.5	1883.2	1880.8	1850.3	1845.6
30048.9	67.5°	20200.3	7337.7	2007.8	2172.4	2106.6	1878.5	1779.8	1770.3	1730.4	1732.7
29054.4	70°	18540.5	5945.8	1718.6	2010.2	2007.8	1793.9	1671.6	1641.0	1587.0	1596.4
25262.1	72.5°	15427.7	4405.9	1330.7	1739.8	1850.3	1716.3	1547.0	1497.6	1429.4	1438.8
18648.6	75°	11141.7	2995.3	968.6	1323.6	1610.5	1624.6	1424.7	1340.1	1257.8	1271.9
10379.9	77.5°	5701.3	1697.5	712.4	912.2	1264.9	1476.5	1314.2	1201.4	1182.6	1314.2
2992.9	80°	1859.7	851.1	493.7	639.5	829.9	1208.4	1152.0	1022.7	1018.0	1048.6
627.7	82.5°	554.9	359.7	317.4	420.8	458.5	926.3	994.5	773.5	665.4	700.6
209.2	85°	190.4	174.0	181.0	209.2	218.6	543.1	695.9	512.5	484.3	533.7
47.0	87.5°	44.7	61.1	51.7	47.0	47.0	131.7	270.4	213.9	296.2	197.5
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>
5344.0
4224.9
3839.3
3891.0
4022.7
4135.5
4199.0
4189.6
4086.1
3912.2
3724.1
3552.5
3409.0
3345.6
3256.2
3096.3
2802.5
2640.2
2602.6
2496.8
2374.6
2235.9
2137.1
2014.9
1998.4
1937.3
1843.2
1732.7
1605.8
1436.5
1276.6
1295.4
900.5
724.1
526.6
190.4
0.0

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