

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: P954790

Luminaire Tested: **GALN-SB7D-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

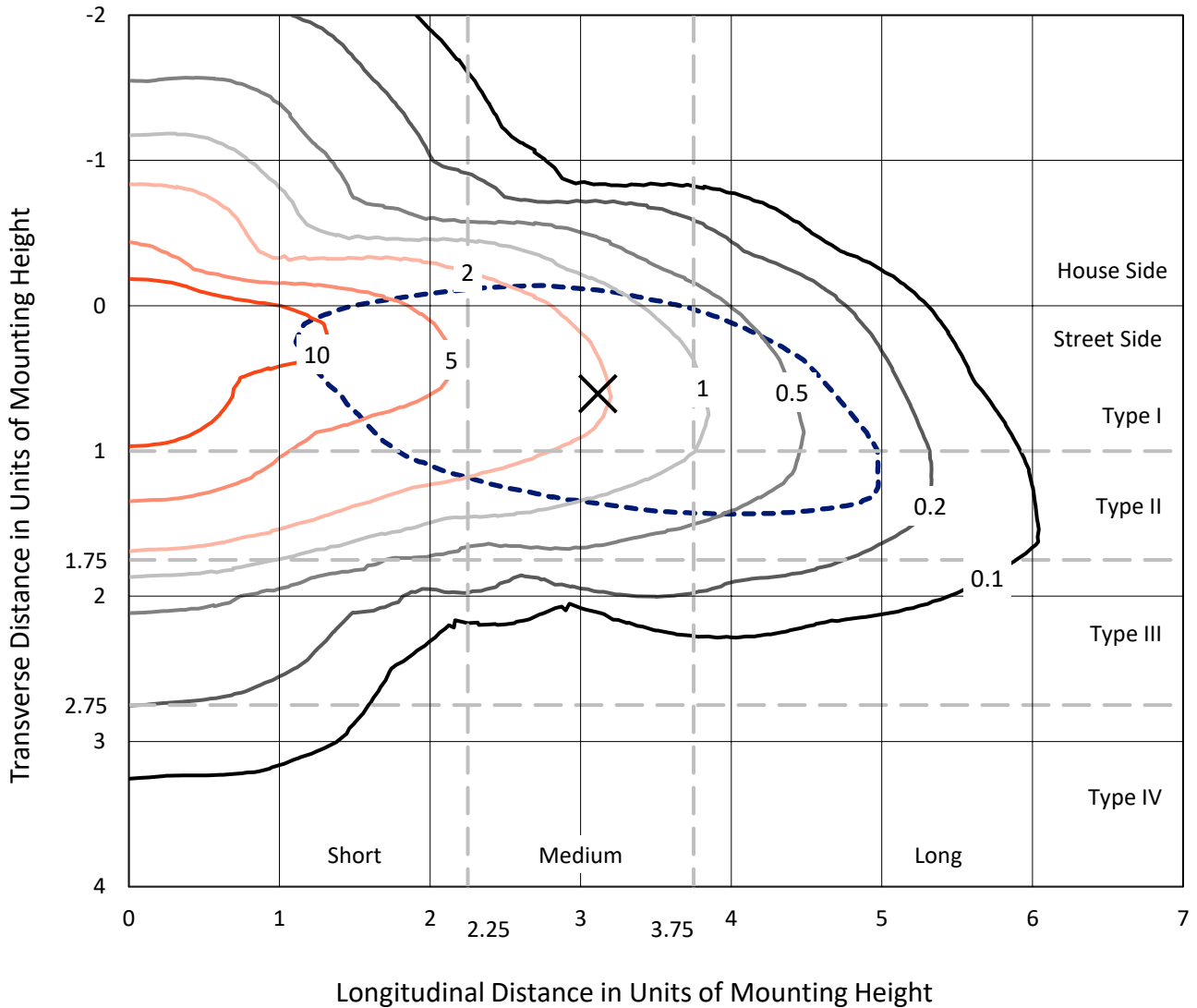
Lumens per Lamp: N/A  
Luminaire Lumens: 52124 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

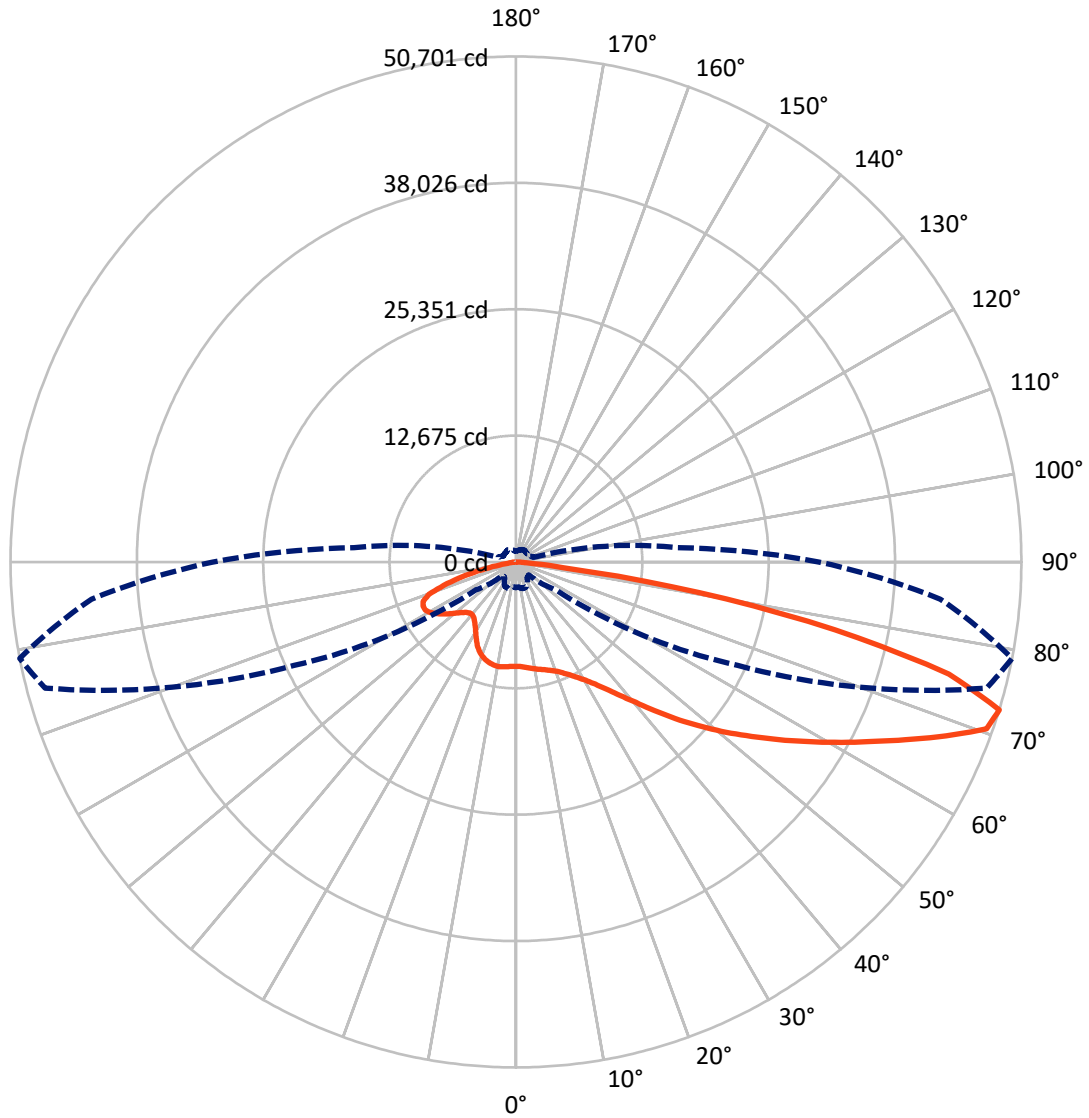
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11470.1	0.0	11470.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	40653.9	0.0	40653.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	52124.0	0.0	52124.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.8	1.8
10°-20°	2483.2	4.8
20°-30°	4006.8	7.7
30°-40°	6013.7	11.5
40°-50°	8530.8	16.4
50°-60°	10773.2	20.7
60°-70°	10941.7	21.0
70°-80°	7457.2	14.3
80°-90°	967.5	1.9
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°	52124.0	100.0
0°-180°	52124.0	100.0



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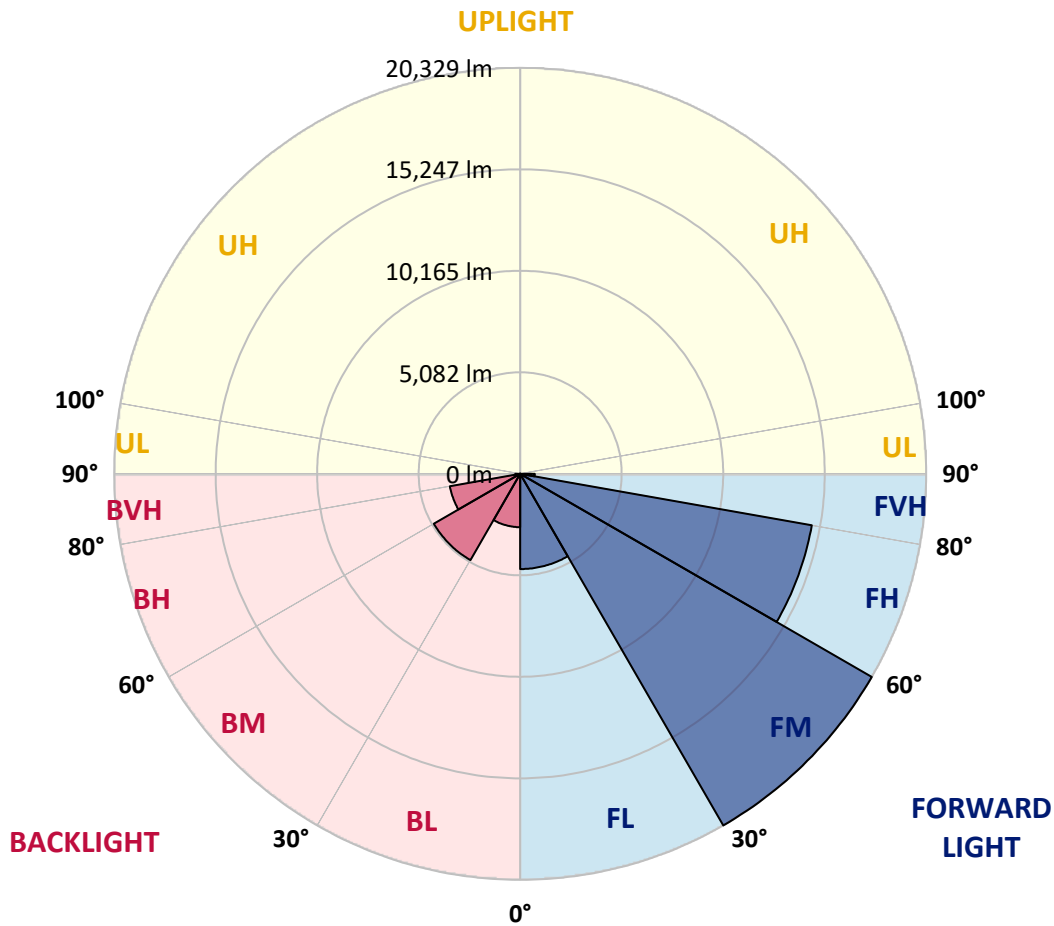
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4768.1	9.1			
FM (30°-60°)	20329.4	39.0			
FH (60°-80°)	14827.5	28.4			G5
FVH (80°-90°)	728.8	1.4			G4/750
BL (0°-30°)	2671.7	5.1	B4/5000		
BM (30°-60°)	4988.3	9.6	B3/5000		
BH (60°-80°)	3571.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	238.7	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°	79°
0°	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4
2.5°	10468.9	10419.3	10449.6	10438.6	10452.4	10468.9	10474.4	10482.7	10510.3	10507.5
5°	10446.9	10397.2	10438.6	10424.8	10460.6	10499.2	10532.3	10562.7	10606.8	10626.1
7.5°	10400.0	10366.9	10408.3	10449.6	10515.8	10573.7	10620.6	10689.5	10752.9	10763.9
10°	10127.0	10102.2	10198.7	10306.2	10488.2	10645.4	10747.4	10827.3	10896.3	10907.3
12.5°	9843.0	9812.7	9920.2	10066.4	10361.4	10645.4	10860.4	10965.2	11025.9	11061.7
15°	9796.2	9771.4	9832.0	9958.8	10204.2	10570.9	10937.6	11130.6	11183.0	11224.4
17.5°	10022.3	9975.4	10000.2	10044.3	10187.7	10502.0	10998.3	11318.1	11398.1	11442.2
20°	10546.1	10479.9	10441.3	10353.1	10328.3	10513.0	10992.8	11544.2	11649.0	11704.1
22.5°	11243.7	11199.6	11116.8	10893.5	10650.9	10648.1	11097.5	11833.7	12029.5	12081.8
25°	12087.4	12021.2	11916.4	11613.1	11147.2	10915.6	11274.0	12203.2	12531.3	12545.0
27.5°	13057.9	12958.6	12815.2	12415.5	11786.8	11334.7	11544.2	12627.8	13107.5	13102.0
30°	14080.8	13981.5	13829.9	13344.6	12553.3	11899.9	11919.2	13085.5	13791.3	13761.0
32.5°	14828.0	14753.5	14723.2	14348.2	13435.6	12567.1	12349.3	13592.8	14635.0	14607.4
35°	15401.5	15305.0	15340.8	15150.6	14397.9	13314.3	12875.9	14196.6	15660.6	15657.9
37.5°	15969.4	15884.0	15914.3	15787.5	15288.4	14262.8	13518.3	14935.5	16931.7	16992.3
40°	16487.8	16396.8	16518.1	16399.5	15980.5	15271.9	14249.0	15770.9	18404.0	18519.8
42.5°	16799.3	16727.7	16928.9	16931.7	16581.5	16123.8	15051.3	16691.8	20107.9	20367.1
45°	16906.9	16882.1	17185.3	17248.8	17113.7	16617.4	15773.7	17695.4	21944.2	22407.4
47.5°	16791.1	16744.2	17163.3	17397.6	17505.2	16849.0	16372.0	18781.7	23819.0	24497.3
50°	16206.5	16115.6	16738.7	17232.2	17615.5	17000.6	16975.8	20036.2	25950.3	26692.0
52.5°	15156.1	15087.1	15795.7	16653.2	17372.8	17075.1	17654.1	21406.5	27974.1	28933.6
55°	13813.3	13722.4	14502.6	15622.0	16769.0	17050.2	18332.3	22939.5	30361.8	31335.0
57.5°	11684.8	11502.8	12489.9	13813.3	15784.7	17019.9	19038.1	24464.2	32788.1	33954.3
60°	8580.3	8310.1	9520.5	11089.3	13860.2	16724.9	19912.2	26173.7	35699.6	36750.1
62.5°	4996.0	4838.8	5630.1	7094.2	10446.9	14987.9	20402.9	28161.6	38561.5	39664.4
65°	3879.3	3835.2	3904.1	4017.2	5814.8	11221.6	18889.3	30099.8	42201.0	42973.0
67.5°	3548.5	3515.4	3545.7	3333.4	2950.2	6250.5	14943.8	30590.6	46099.6	46568.3
70°	3154.2	3115.6	3214.8	3032.9	2321.5	2842.6	9655.6	28809.5	49201.4	50080.9
72.5°	2569.7	2525.6	2757.2	2674.4	1954.8	1825.2	4849.8	24577.3	48876.1	50701.3
75°	1974.1	1949.3	2225.0	2294.0	1593.6	1436.5	2327.0	18268.9	43011.6	44850.6
77.5°	1533.0	1513.7	1654.3	1905.2	1284.8	1113.9	1431.0	11588.3	32413.1	32735.7
80°	1149.7	1094.6	1224.2	1475.1	1000.8	813.4	970.5	6757.8	20488.4	18572.2
82.5°	719.6	692.0	799.6	984.3	705.8	559.7	631.4	3733.2	8210.8	4836.0
85°	410.8	399.8	435.6	562.5	383.2	322.6	361.2	1648.8	1499.9	1031.2
87.5°	165.4	159.9	198.5	250.9	140.6	118.6	126.8	397.0	330.9	306.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10463.4	0°	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4	10463.4
10504.8	2.5°	10493.7	10493.7	10455.1	10394.5	10325.5	10281.4	10209.7	10190.4	10116.0	10093.9
10598.5	5°	10620.6	10598.5	10479.9	10309.0	10074.6	9859.6	9622.5	9473.6	9264.0	9189.6
10783.2	7.5°	10780.5	10719.8	10515.8	10140.8	9650.0	9167.5	8665.7	8285.2	7921.3	7791.7
10934.9	10°	10926.6	10841.1	10493.7	9837.5	8988.3	8152.9	7353.3	6793.6	6369.0	6195.3
11103.1	12.5°	11072.7	10915.6	10347.6	9333.0	8048.1	6914.9	6063.0	5627.4	5365.4	5155.9
11240.9	15°	11210.6	10990.0	10121.5	8657.5	7017.0	5867.2	5238.6	4891.2	4681.6	4543.8
11442.2	17.5°	11370.5	11053.4	9782.4	7800.0	6035.4	5142.1	4629.3	4419.7	4378.4	4361.8
11717.9	20°	11593.8	11111.3	9335.7	6840.5	5313.0	4563.1	4298.4	4279.1	4276.3	4268.1
12048.8	22.5°	11833.7	11180.3	8745.7	5969.2	4698.2	4201.9	4155.0	4116.4	4091.6	4088.9
12448.5	25°	12117.7	11202.3	8006.8	5255.1	4174.3	4031.0	3975.8	3917.9	3901.4	3901.4
12903.5	27.5°	12393.4	11127.9	7146.5	4634.8	3879.3	3873.8	3802.1	3782.8	3780.1	3788.3
13421.8	30°	12669.1	10987.3	6291.8	4061.3	3708.4	3708.4	3683.6	3697.3	3708.4	3735.9
14133.2	32.5°	13041.3	10838.4	5577.7	3636.7	3559.5	3531.9	3556.7	3584.3	3595.3	3631.2
15067.8	35°	13587.3	10733.6	5009.7	3405.1	3405.1	3369.2	3383.0	3377.5	3352.7	3336.2
16198.3	37.5°	14309.6	10728.1	4541.0	3297.6	3275.5	3270.0	3272.7	3236.9	3140.4	3024.6
17565.8	40°	15178.1	10877.0	4179.8	3223.1	3206.6	3239.7	3223.1	3126.6	2861.9	2660.7
19247.7	42.5°	16344.4	11301.6	3948.2	3132.1	3181.8	3223.1	3156.9	2823.3	2644.1	2509.0
21163.9	45°	17717.5	11990.9	3829.7	3035.6	3134.9	3184.5	2864.7	2718.6	2575.2	2412.5
23253.8	47.5°	19272.5	12859.4	3802.1	2944.6	3030.1	3060.4	2740.6	2674.4	2511.8	2335.3
25354.8	50°	20965.4	13887.8	3876.6	2837.1	2878.5	2773.7	2699.3	2638.6	2470.4	2296.7
27508.1	52.5°	22716.2	15021.0	4025.4	2691.0	2726.8	2611.0	2682.7	2630.3	2445.6	2211.2
29733.1	55°	24436.7	16162.4	4168.8	2520.0	2572.4	2464.9	2635.8	2597.2	2332.6	2067.9
32107.1	57.5°	26184.7	17298.4	4309.4	2368.4	2423.5	2324.3	2561.4	2509.0	2205.7	1935.5
34698.8	60°	28001.7	18401.2	4375.6	2222.3	2260.9	2194.7	2448.4	2357.4	2062.4	1800.4
37246.4	62.5°	29702.8	19319.4	4268.1	2076.1	2101.0	2073.4	2299.5	2178.2	1919.0	1648.8
39901.5	65°	31409.5	19865.3	3937.2	1932.8	1938.3	1924.5	2089.9	1985.2	1750.8	1516.4
42225.8	67.5°	32956.3	20171.3	3410.6	1778.4	1764.6	1759.1	1894.2	1775.6	1588.1	1384.1
43993.1	70°	33284.4	19393.8	2605.5	1596.4	1596.4	1582.6	1679.1	1557.8	1408.9	1243.5
42727.6	72.5°	30400.4	16314.1	1850.0	1389.6	1411.7	1384.1	1464.0	1362.0	1226.9	1116.6
36824.5	75°	24513.9	11963.3	1345.5	1177.3	1215.9	1169.0	1243.5	1171.8	1056.0	1053.2
25376.8	77.5°	16843.5	7397.4	976.0	970.5	998.1	937.4	1022.9	984.3	879.5	832.7
11045.2	80°	7187.9	2950.2	711.3	749.9	749.9	694.8	794.1	805.1	714.1	692.0
2131.3	82.5°	1431.0	838.2	499.0	515.6	485.3	468.7	562.5	623.1	860.2	956.7
642.4	85°	430.1	308.8	300.5	281.2	248.1	250.9	330.9	625.9	772.0	441.1
212.3	87.5°	118.6	77.2	80.0	63.4	52.4	68.9	113.0	474.2	259.2	110.3
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>
10463.4
10129.8
9244.7
7808.3
6233.9
5224.8
4568.6
4372.8
4295.6
4119.2
3917.9
3810.4
3755.2
3661.5
3374.8
3027.4
2655.1
2503.5
2401.5
2321.5
2277.4
2194.7
2054.1
1930.0
1792.1
1646.0
1499.9
1367.5
1238.0
1083.6
948.5
780.3
692.0
959.5
380.5
93.7
0.0

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