

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: P940625

Luminaire Tested: **GALN-SB3D-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32006 lumens  
Efficiency: N/A  
Efficacy: 146.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

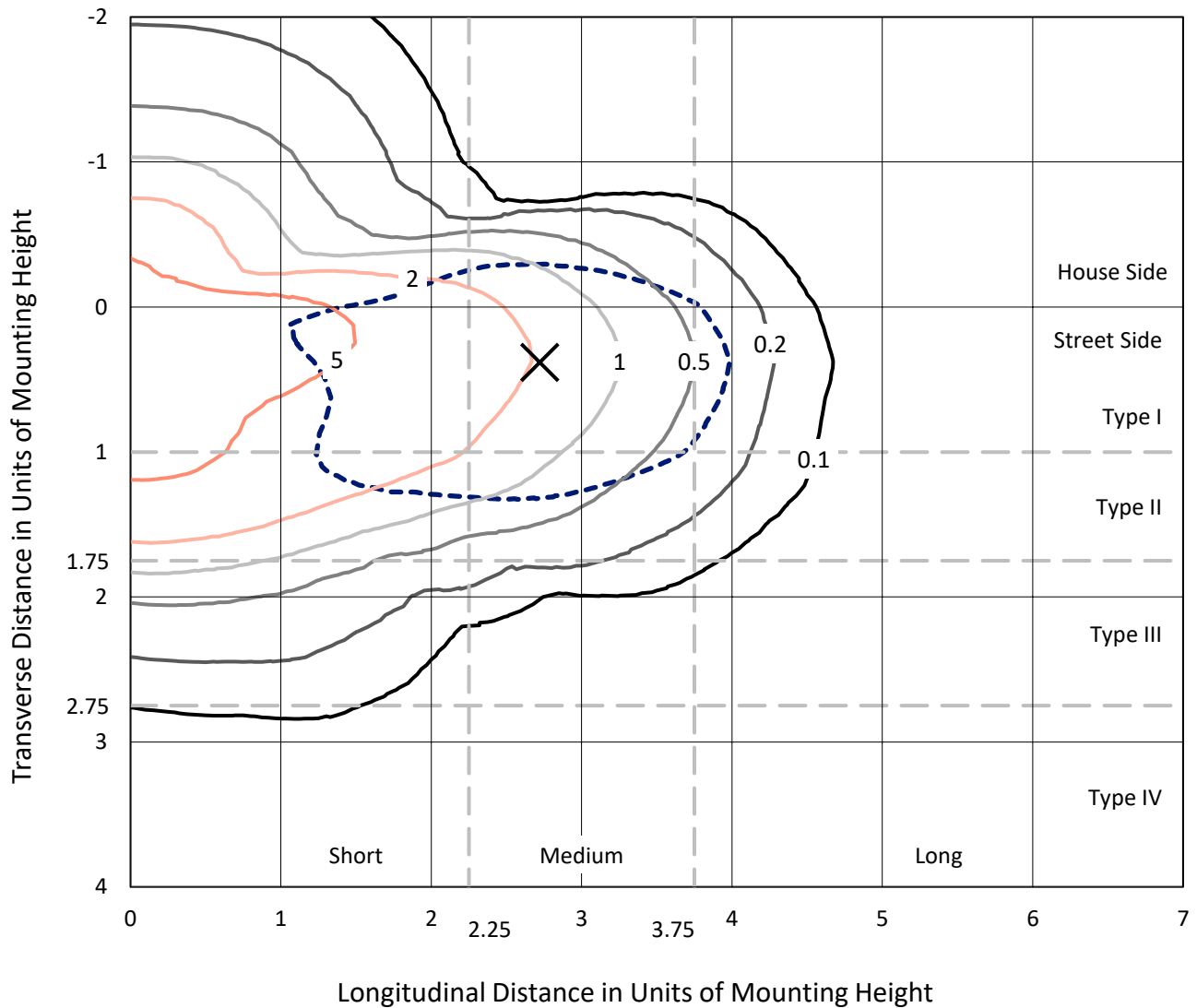
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

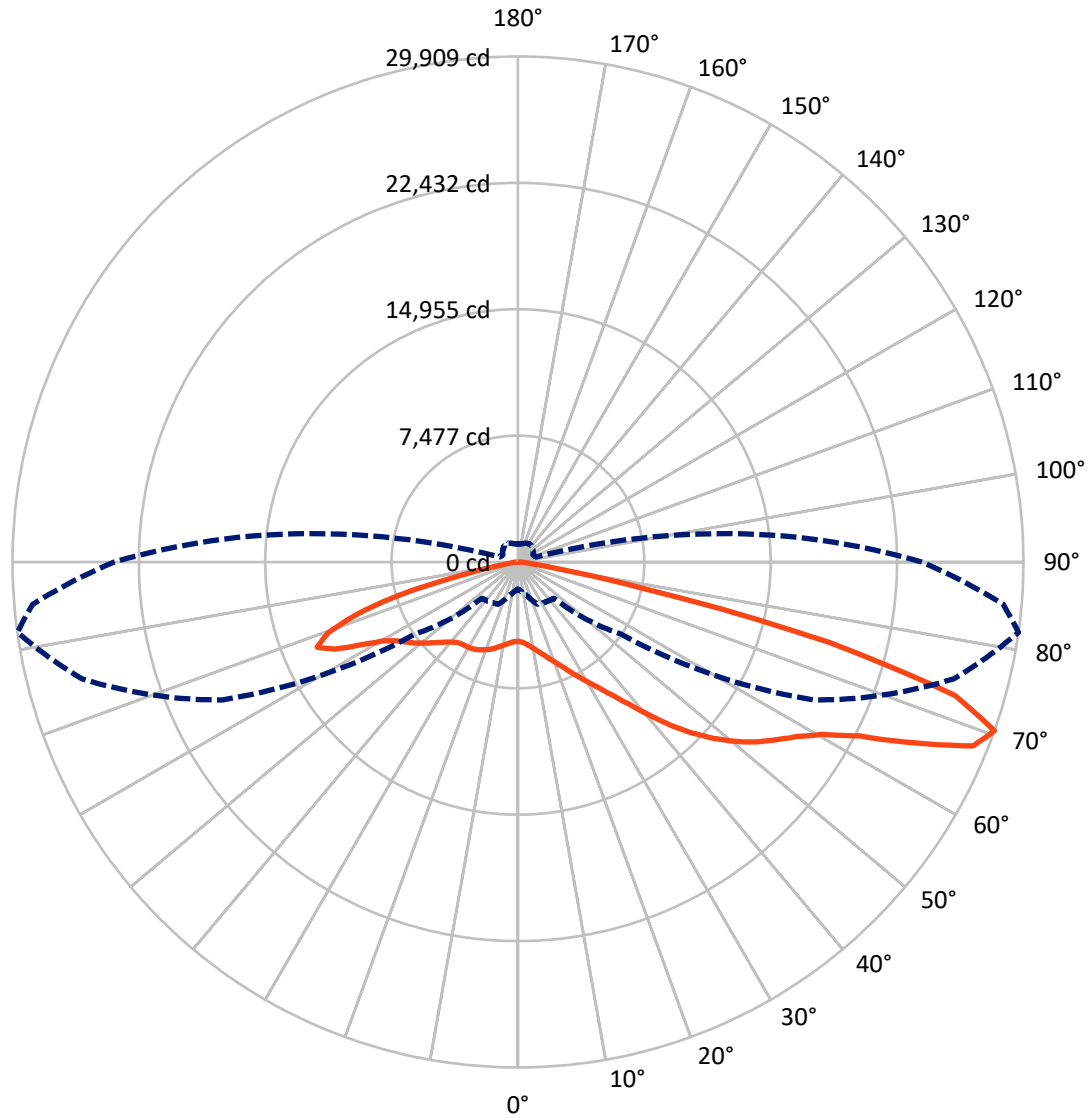
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7890.3	0.0	7890.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	24115.7	0.0	24115.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	32006.0	0.0	32006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.1	1.4
10°-20°	1272.9	4.0
20°-30°	2129.5	6.7
30°-40°	3326.8	10.4
40°-50°	5298.3	16.6
50°-60°	7373.2	23.0
60°-70°	7712.7	24.1
70°-80°	4031.1	12.6
80°-90°	418.6	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°	32006.0	100.0
0°-180°	32006.0	100.0

**Coefficient of Utilization**



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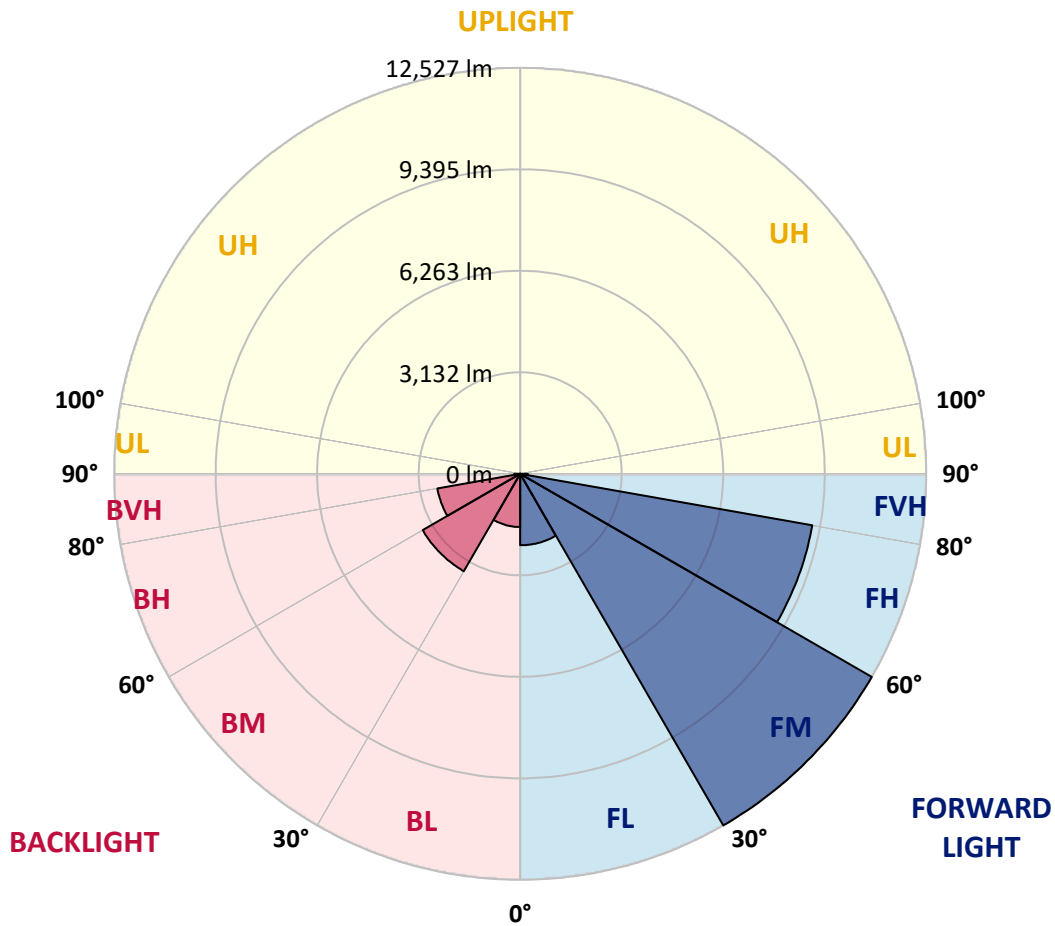
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.0	6.9			
FM (30°-60°)	12526.8	39.1			
FH (60°-80°)	9150.6	28.6			G4/12000
FVH (80°-90°)	234.3	0.7			G3/500
BL (0°-30°)	1641.5	5.1	B3/2500		
BM (30°-60°)	3471.4	10.8	B3/5000		
BH (60°-80°)	2593.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	184.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5
2.5°	4804.6	4831.7	4823.3	4814.8	4814.8	4802.9	4801.2	4784.2	4770.6	4748.5
5°	4865.7	4894.6	4891.2	4898.0	4920.1	4925.2	4930.2	4920.1	4892.9	4865.7
7.5°	4811.4	4843.6	4853.8	4894.6	4962.5	5023.7	5069.5	5088.2	5062.7	5023.7
10°	4627.9	4663.6	4699.3	4796.1	4916.7	5061.0	5183.3	5256.3	5251.2	5213.9
12.5°	4256.0	4293.4	4369.8	4558.3	4779.1	5033.8	5261.4	5414.3	5466.9	5439.7
15°	3958.8	3991.1	4048.8	4242.4	4529.4	4916.7	5290.3	5587.5	5721.7	5706.4
17.5°	3950.3	3963.9	3999.6	4091.3	4312.1	4733.2	5259.7	5757.3	6013.8	6012.1
20°	4099.8	4104.9	4125.2	4143.9	4269.6	4594.0	5181.6	5898.3	6341.6	6341.6
22.5°	4307.0	4303.6	4323.9	4307.0	4368.1	4582.1	5132.3	6022.3	6706.7	6733.9
25°	4617.8	4600.8	4595.7	4556.6	4568.5	4692.5	5186.7	6163.2	7139.8	7195.8
27.5°	5032.1	5005.0	4986.3	4896.3	4865.7	4920.1	5353.1	6333.1	7622.1	7718.9
30°	5572.2	5523.0	5495.8	5339.5	5229.2	5237.6	5604.5	6558.9	8126.5	8282.7
32.5°	6309.3	6232.9	6159.8	5903.4	5701.3	5635.1	5928.9	6871.4	8673.4	8923.0
35°	7134.7	7073.5	6995.4	6599.7	6288.9	6136.1	6367.0	7307.9	9313.6	9709.3
37.5°	7929.5	7876.8	7914.2	7380.9	6980.1	6757.6	6941.1	7893.8	10103.4	10687.6
40°	8751.5	8710.7	8715.8	8206.3	7739.3	7489.6	7637.4	8629.2	11008.6	11850.9
42.5°	9644.8	9614.2	9512.3	9060.6	8535.8	8303.1	8439.0	9478.4	11980.0	13175.6
45°	10645.1	10626.4	10531.3	10013.3	9412.1	9150.6	9334.0	10415.8	12956.5	14422.2
47.5°	11509.6	11524.9	11513.0	11076.5	10453.2	10069.4	10288.5	11394.1	13865.1	15594.0
50°	11925.7	12005.5	12122.7	11986.8	11599.6	11209.0	11251.4	12338.4	14731.3	16692.9
52.5°	11708.3	11859.4	12178.7	12396.1	12545.5	12464.0	12350.2	13275.8	15546.5	17684.7
55°	10898.2	11110.5	11640.3	12165.1	12927.7	13520.4	13669.8	14315.2	16341.3	18557.6
57.5°	9422.3	9767.1	10242.6	11304.1	12588.0	14031.6	15208.5	15757.1	17183.7	19490.0
60°	6891.8	7353.8	7944.8	9524.2	11399.2	13758.2	16517.9	17971.7	18381.0	20697.5
62.5°	4410.6	4695.9	5239.3	6727.1	8882.3	12357.0	16918.7	20740.0	20410.5	22677.8
65°	3019.6	3203.0	3700.7	4536.2	5742.0	9198.1	15845.4	22815.3	23633.9	25816.3
67.5°	2194.2	2333.5	2758.1	3490.1	3741.4	5443.1	12295.9	22720.2	26767.3	29049.9
70°	1599.8	1698.3	2055.0	2758.1	2878.7	3028.1	7448.9	19313.4	26699.4	29909.3
72.5°	1185.4	1253.4	1492.8	2139.9	2330.1	2044.8	3687.1	14036.7	22942.7	27052.7
75°	857.7	908.6	1085.2	1637.2	1864.8	1557.4	1839.3	8202.9	16003.3	19029.8
77.5°	655.6	694.6	810.1	1199.0	1492.8	1168.4	1141.3	3773.7	7588.1	7625.5
80°	526.5	552.0	614.8	844.1	1144.7	874.6	743.9	1523.4	2398.0	2029.5
82.5°	387.2	429.7	519.7	592.7	818.6	602.9	453.5	769.3	912.0	784.6
85°	220.8	249.7	314.2	424.6	523.1	368.5	259.8	341.4	424.6	348.2
87.5°	78.1	101.9	110.4	166.4	227.6	152.8	100.2	98.5	139.3	103.6
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°
4692.5	0°	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5	4692.5
4743.4	2.5°	4726.4	4718.0	4684.0	4638.1	4590.6	4544.7	4529.4	4497.2	4475.1	4463.2
4853.8	5°	4821.6	4794.4	4714.6	4612.7	4505.7	4390.2	4308.7	4233.9	4179.6	4128.6
5005.0	7.5°	4957.4	4909.9	4772.3	4594.0	4403.8	4211.9	4069.2	3960.5	3887.5	3839.9
5181.6	10°	5115.4	5042.3	4831.7	4565.1	4271.3	3996.2	3828.0	3734.6	3688.8	3663.3
5383.7	12.5°	5297.1	5193.5	4892.9	4498.9	4069.2	3755.0	3639.5	3612.3	3614.0	3615.7
5638.4	15°	5521.3	5376.9	4942.1	4354.5	3806.0	3569.9	3549.5	3593.7	3639.5	3661.6
5927.2	17.5°	5774.3	5570.5	4950.6	4116.7	3547.8	3451.0	3515.5	3610.6	3680.3	3710.8
6249.8	20°	6046.0	5767.5	4889.5	3780.5	3335.5	3354.2	3469.7	3592.0	3668.4	3707.4
6618.4	22.5°	6356.8	5978.1	4743.4	3427.2	3162.3	3248.9	3384.8	3503.7	3583.5	3622.5
7051.5	25°	6711.8	6214.2	4514.2	3130.0	3012.8	3130.0	3265.9	3364.4	3428.9	3464.6
7535.5	27.5°	7105.8	6460.4	4208.5	2894.0	2882.1	3007.7	3119.8	3196.3	3230.2	3257.4
8050.1	30°	7501.5	6684.6	3838.2	2715.6	2768.3	2887.2	2967.0	3000.9	3011.1	3016.2
8624.1	32.5°	7929.5	6878.2	3449.3	2567.9	2659.6	2770.0	2817.5	2832.8	2785.3	2753.0
9320.4	35°	8447.5	7085.4	3068.9	2450.7	2552.6	2647.7	2663.0	2649.4	2593.3	2527.1
10193.4	37.5°	9087.8	7343.6	2764.9	2367.5	2452.4	2515.2	2496.5	2493.1	2498.2	2420.1
11242.9	40°	9872.4	7679.8	2542.4	2302.9	2370.9	2384.5	2331.8	2360.7	2386.2	2267.3
12394.4	42.5°	10743.6	8085.7	2401.4	2258.8	2302.9	2270.7	2189.1	2221.4	2218.0	2061.8
13551.0	45°	11631.8	8527.3	2352.2	2226.5	2240.1	2175.6	2085.5	2094.0	2022.7	1881.7
14660.0	47.5°	12515.0	9001.1	2382.8	2199.3	2162.0	2088.9	2019.3	1981.9	1876.7	1771.4
15723.1	50°	13381.1	9498.7	2494.8	2145.0	2055.0	2012.5	1961.6	1895.3	1783.2	1693.2
16728.5	52.5°	14184.4	9999.8	2620.5	2055.0	1920.8	1946.3	1914.0	1837.6	1727.2	1635.5
17679.6	55°	14945.3	10500.8	2669.8	1931.0	1795.1	1888.5	1869.9	1728.9	1596.4	1521.7
18674.8	57.5°	15774.1	11103.7	2615.4	1773.1	1693.2	1822.3	1751.0	1594.7	1518.3	1462.3
19970.6	60°	16922.1	12049.6	2498.2	1577.7	1596.4	1723.8	1601.5	1537.0	1453.8	1390.9
21913.5	62.5°	18829.4	13814.2	2309.7	1384.1	1482.6	1577.7	1530.2	1465.7	1380.7	1319.6
25235.5	65°	21648.6	16266.6	1954.8	1233.0	1355.3	1435.1	1453.8	1389.2	1300.9	1236.4
28146.4	67.5°	24026.2	17805.3	1479.2	1107.3	1224.5	1319.6	1372.2	1309.4	1216.0	1153.2
28827.4	70°	23895.5	16687.8	1129.4	983.3	1109.0	1205.8	1273.7	1224.5	1124.3	1064.9
26184.8	72.5°	21224.0	13960.3	913.7	857.7	991.8	1086.9	1168.4	1131.1	1029.2	971.4
19182.6	75°	15592.3	9909.7	730.3	730.3	845.8	963.0	1053.0	1029.2	935.8	895.0
8053.5	77.5°	6572.5	4157.5	572.3	606.3	703.1	827.1	939.2	947.7	866.1	917.1
2129.7	80°	1747.6	1146.4	436.5	477.2	552.0	682.7	816.9	813.5	725.2	677.6
791.4	82.5°	665.7	451.8	310.8	336.3	399.1	523.1	647.1	667.4	579.1	501.0
310.8	85°	256.4	193.6	191.9	202.1	232.7	346.5	489.1	506.1	436.5	370.2
86.6	87.5°	66.2	57.7	71.3	67.9	107.0	185.1	280.2	290.4	266.6	154.5
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>
4692.5
4476.8
4149.0
3850.1
3670.1
3619.1
3659.9
3717.6
3717.6
3632.7
3474.8
3267.6
3028.1
2763.2
2530.5
2425.2
2270.7
2060.1
1886.8
1771.4
1686.4
1637.2
1514.9
1457.2
1387.5
1319.6
1239.8
1154.9
1069.9
971.4
883.1
832.2
630.1
501.0
382.1
220.8
0.0

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