

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: P939945

Luminaire Tested: **GALN-SB2D-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939945  
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-SB2D-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

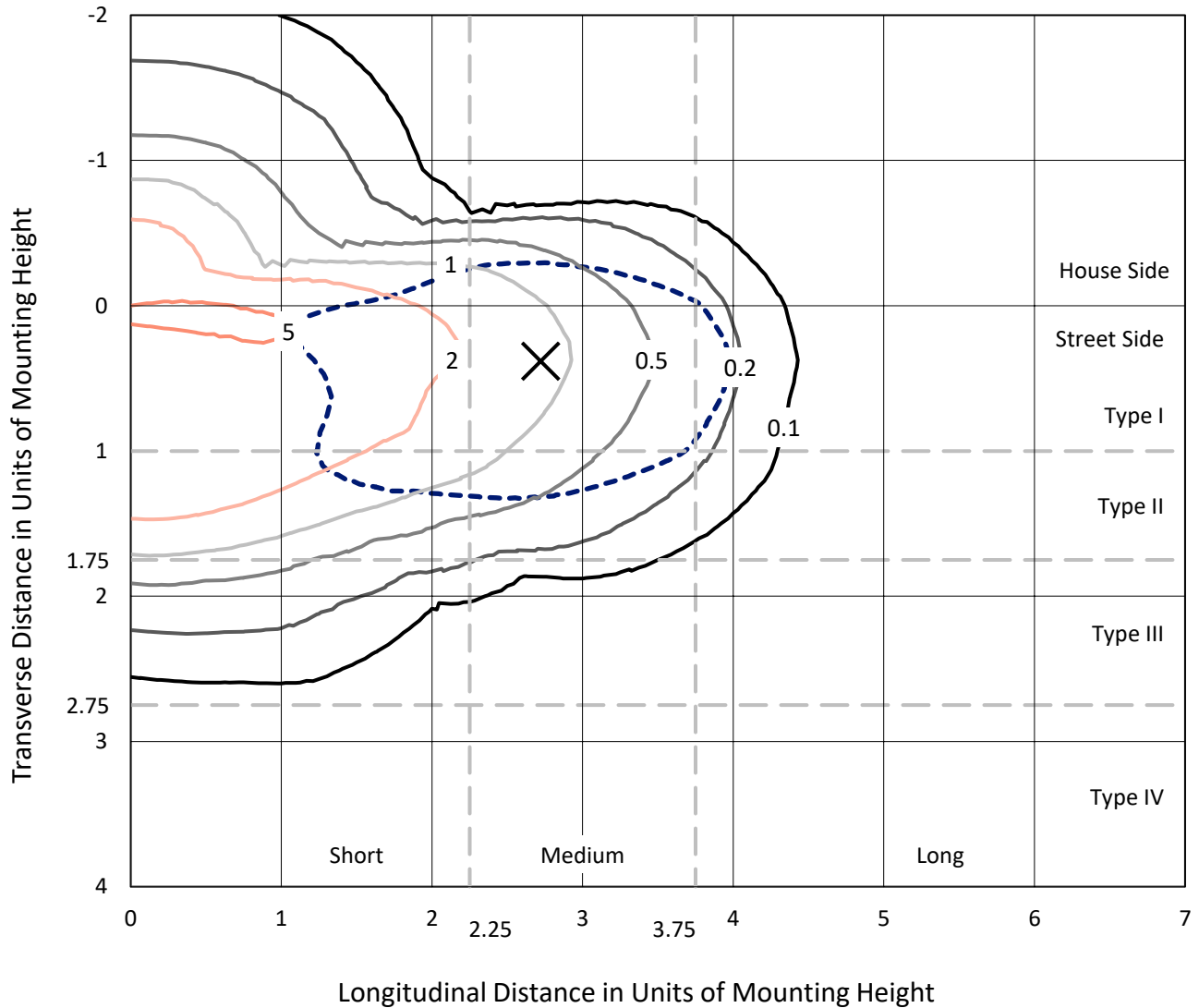
Lumens per Lamp: N/A  
Luminaire Lumens: 21333 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

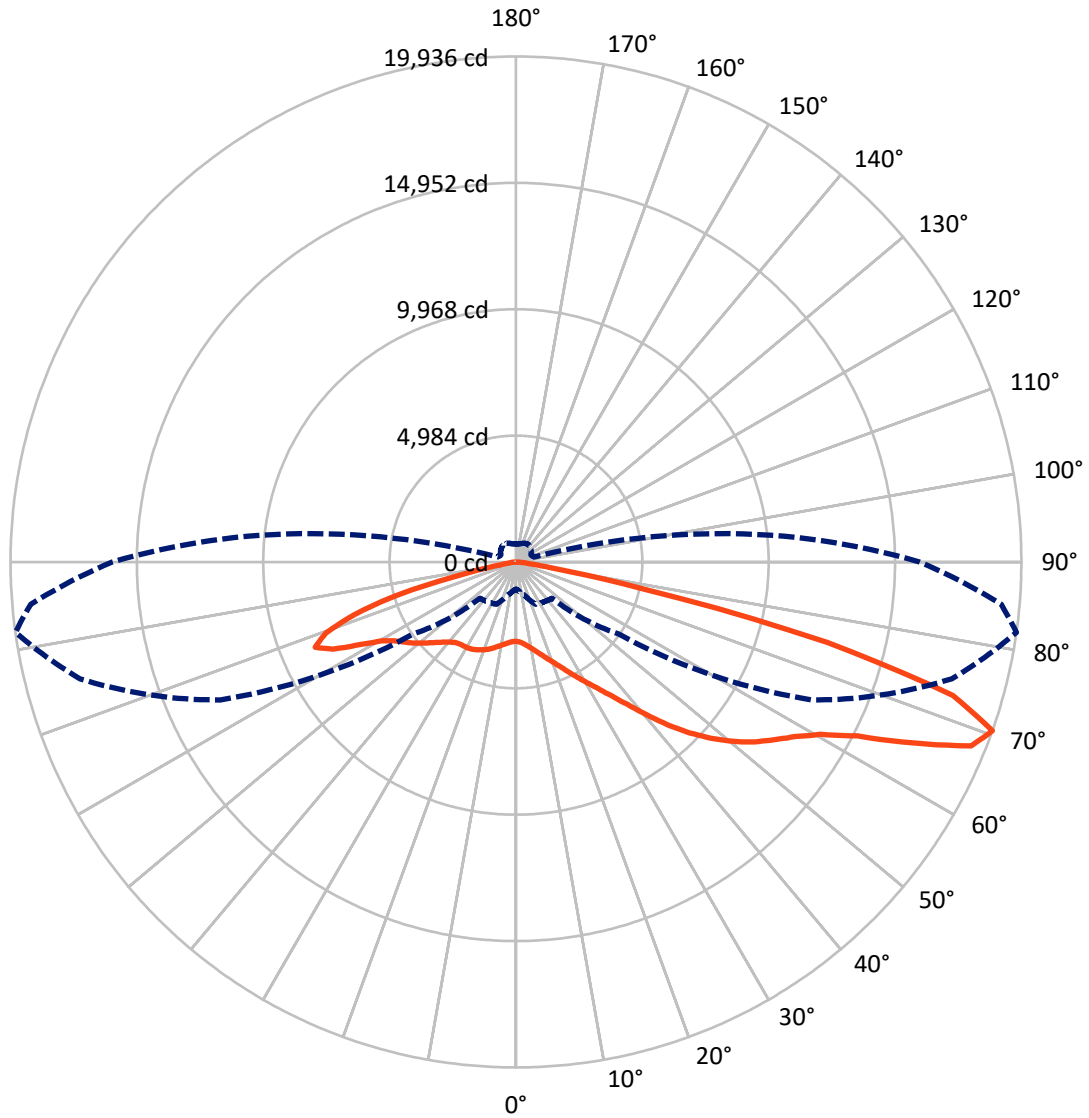
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5259.1	0.0	5259.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16073.9	0.0	16073.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	21333.0	0.0	21333.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.3	1.4
10°-20°	848.4	4.0
20°-30°	1419.4	6.7
30°-40°	2217.4	10.4
40°-50°	3531.5	16.6
50°-60°	4914.5	23.0
60°-70°	5140.7	24.1
70°-80°	2686.8	12.6
80°-90°	279.0	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°	21333.0	100.0
0°-180°	21333.0	100.0

**Coefficient of Utilization**



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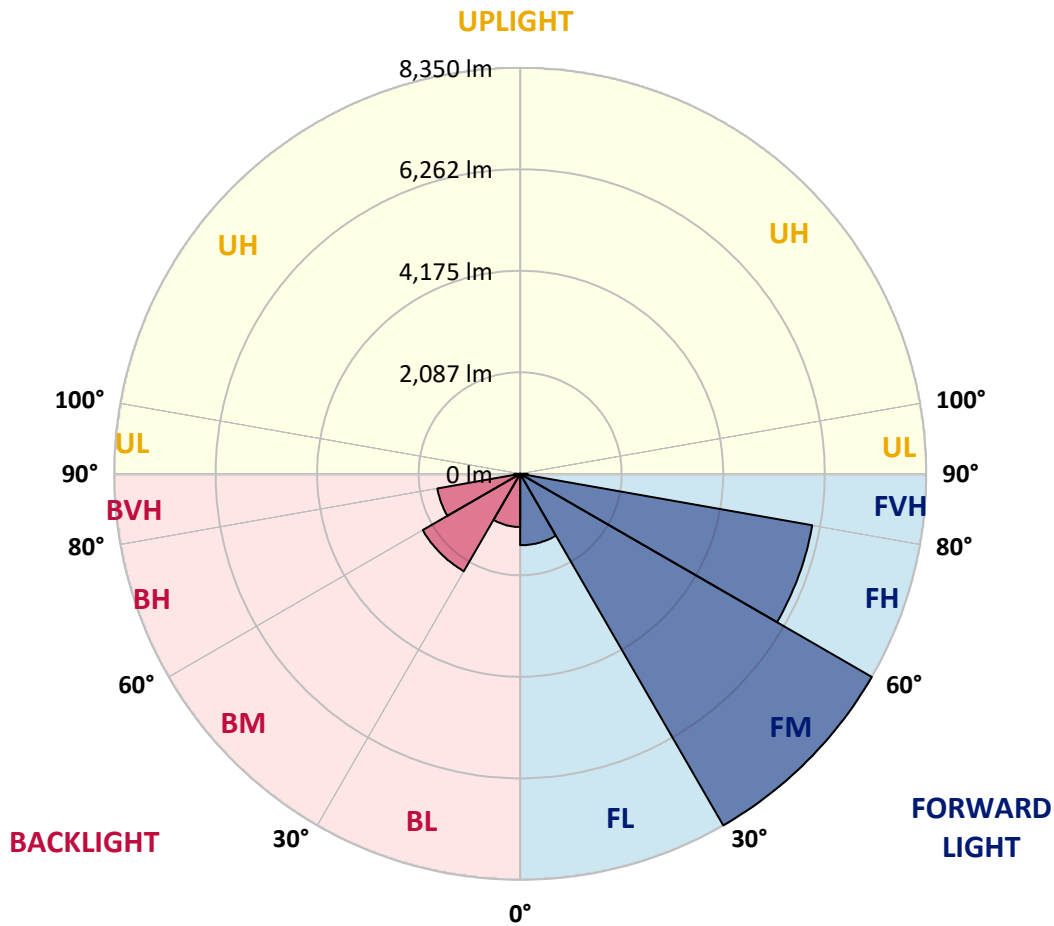
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.0	6.9			
FM (30°-60°)	8349.5	39.1			
FH (60°-80°)	6099.2	28.6			G3/7500
FVH (80°-90°)	156.2	0.7			G2/225
BL (0°-30°)	1094.1	5.1	B3/2500		
BM (30°-60°)	2313.8	10.8	B2/2500		
BH (60°-80°)	1728.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	122.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7
2.5°	3202.4	3220.5	3214.8	3209.2	3209.2	3201.3	3200.1	3188.8	3179.8	3165.0
5°	3243.1	3262.4	3260.1	3264.7	3279.4	3282.8	3286.2	3279.4	3261.3	3243.1
7.5°	3206.9	3228.4	3235.2	3262.4	3307.7	3348.4	3379.0	3391.4	3374.5	3348.4
10°	3084.7	3108.4	3132.2	3196.7	3277.1	3373.3	3454.8	3503.5	3500.1	3475.2
12.5°	2836.8	2861.7	2912.6	3038.3	3185.4	3355.2	3506.9	3608.8	3643.9	3625.8
15°	2638.7	2660.2	2698.7	2827.7	3019.0	3277.1	3526.1	3724.2	3813.7	3803.5
17.5°	2633.0	2642.1	2665.8	2727.0	2874.1	3154.9	3505.8	3837.4	4008.4	4007.2
20°	2732.6	2736.0	2749.6	2762.1	2845.8	3062.0	3453.7	3931.4	4226.8	4226.8
22.5°	2870.7	2868.5	2882.0	2870.7	2911.5	3054.1	3420.9	4014.0	4470.2	4488.3
25°	3077.9	3066.6	3063.2	3037.1	3045.0	3127.7	3457.1	4108.0	4758.9	4796.2
27.5°	3354.1	3336.0	3323.5	3263.5	3243.1	3279.4	3568.0	4221.2	5080.4	5144.9
30°	3714.1	3681.2	3663.1	3559.0	3485.4	3491.1	3735.6	4371.7	5416.6	5520.7
32.5°	4205.3	4154.4	4105.7	3934.8	3800.1	3755.9	3951.8	4580.0	5781.1	5947.5
35°	4755.5	4714.7	4662.7	4398.9	4191.8	4089.9	4243.8	4870.9	6207.8	6471.6
37.5°	5285.3	5250.2	5275.1	4919.6	4652.5	4504.2	4626.4	5261.5	6734.2	7123.6
40°	5833.1	5806.0	5809.4	5469.8	5158.5	4992.1	5090.6	5751.6	7337.6	7899.0
42.5°	6428.6	6408.2	6340.3	6039.2	5689.4	5534.3	5624.9	6317.6	7985.0	8782.0
45°	7095.3	7082.9	7019.5	6674.2	6273.5	6099.2	6221.4	6942.5	8635.9	9612.8
47.5°	7671.5	7681.7	7673.8	7382.8	6967.4	6711.6	6857.6	7594.5	9241.6	10393.9
50°	7948.8	8002.0	8080.1	7989.6	7731.5	7471.1	7499.4	8223.9	9818.9	11126.3
52.5°	7803.9	7904.7	8117.5	8262.4	8362.0	8307.7	8231.8	8848.8	10362.2	11787.4
55°	7264.0	7405.5	7758.7	8108.4	8616.7	9011.8	9111.4	9541.5	10892.0	12369.2
57.5°	6280.3	6510.1	6827.0	7534.5	8390.3	9352.5	10137.0	10502.6	11453.5	12990.7
60°	4593.6	4901.5	5295.4	6348.2	7597.9	9170.2	11009.7	11978.7	12251.5	13795.5
62.5°	2939.8	3129.9	3492.2	4483.8	5920.3	8236.3	11276.9	13823.8	13604.2	15115.4
65°	2012.7	2134.9	2466.6	3023.5	3827.3	6130.9	10561.5	15207.1	15752.8	17207.4
67.5°	1462.5	1555.4	1838.3	2326.2	2493.8	3628.0	8195.6	15143.7	17841.3	19362.7
70°	1066.3	1132.0	1369.7	1838.3	1918.7	2018.3	4964.9	12873.0	17796.0	19935.5
72.5°	790.1	835.4	995.0	1426.3	1553.1	1362.9	2457.5	9355.9	15292.0	18031.4
75°	571.7	605.6	723.3	1091.2	1242.9	1038.0	1225.9	5467.5	10666.7	12683.9
77.5°	436.9	463.0	540.0	799.2	995.0	778.8	760.7	2515.3	5057.7	5082.6
80°	350.9	367.9	409.8	562.6	763.0	583.0	495.8	1015.4	1598.4	1352.7
82.5°	258.1	286.4	346.4	395.1	545.6	401.9	302.2	512.8	607.9	523.0
85°	147.2	166.4	209.4	283.0	348.7	245.6	173.2	227.5	283.0	232.1
87.5°	52.1	67.9	73.6	110.9	151.7	101.9	66.8	65.7	92.8	69.1
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°
3127.7	0°	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7
3161.6	2.5°	3150.3	3144.7	3122.0	3091.5	3059.8	3029.2	3019.0	2997.5	2982.8	2974.9
3235.2	5°	3213.7	3195.6	3142.4	3074.5	3003.2	2926.2	2871.9	2822.0	2785.8	2751.9
3336.0	7.5°	3304.3	3272.6	3180.9	3062.0	2935.2	2807.3	2712.2	2639.8	2591.1	2559.4
3453.7	10°	3409.5	3360.9	3220.5	3042.8	2847.0	2663.6	2551.5	2489.2	2458.7	2441.7
3588.4	12.5°	3530.7	3461.6	3261.3	2998.6	2712.2	2502.8	2425.9	2407.7	2408.9	2410.0
3758.2	15°	3680.1	3583.9	3294.1	2902.4	2536.8	2379.4	2365.9	2395.3	2425.9	2440.6
3950.6	17.5°	3848.8	3712.9	3299.7	2743.9	2364.7	2300.2	2343.2	2406.6	2453.0	2473.4
4165.7	20°	4029.9	3844.2	3259.0	2519.8	2223.2	2235.7	2312.7	2394.2	2445.1	2471.1
4411.4	22.5°	4237.0	3984.6	3161.6	2284.4	2107.8	2165.5	2256.1	2335.3	2388.5	2414.5
4700.0	25°	4473.6	4141.9	3008.8	2086.3	2008.1	2086.3	2176.8	2242.5	2285.5	2309.3
5022.6	27.5°	4736.2	4306.1	2805.1	1928.9	1921.0	2004.8	2079.5	2130.4	2153.0	2171.2
5365.6	30°	5000.0	4455.5	2558.3	1810.0	1845.1	1924.4	1977.6	2000.2	2007.0	2010.4
5748.2	32.5°	5285.3	4584.6	2299.1	1711.6	1772.7	1846.3	1878.0	1888.2	1856.5	1835.0
6212.4	35°	5630.5	4722.7	2045.5	1633.5	1701.4	1764.8	1775.0	1765.9	1728.5	1684.4
6794.2	37.5°	6057.3	4894.7	1842.9	1578.0	1634.6	1676.5	1664.0	1661.8	1665.2	1613.1
7493.8	40°	6580.2	5118.9	1694.6	1535.0	1580.3	1589.3	1554.2	1573.5	1590.4	1511.2
8261.3	42.5°	7161.0	5389.4	1600.6	1505.5	1535.0	1513.5	1459.1	1480.6	1478.4	1374.2
9032.1	45°	7753.0	5683.7	1567.8	1484.0	1493.1	1450.1	1390.1	1395.7	1348.2	1254.2
9771.3	47.5°	8341.6	5999.5	1588.2	1465.9	1441.0	1392.3	1345.9	1321.0	1250.8	1180.7
10480.0	50°	8918.9	6331.2	1662.9	1429.7	1369.7	1341.4	1307.4	1263.3	1188.6	1128.6
11150.1	52.5°	9454.4	6665.1	1746.7	1369.7	1280.3	1297.3	1275.8	1224.8	1151.2	1090.1
11784.0	55°	9961.5	6999.1	1779.5	1287.1	1196.5	1258.8	1246.3	1152.4	1064.1	1014.3
12447.3	57.5°	10513.9	7400.9	1743.3	1181.8	1128.6	1214.6	1167.1	1062.9	1012.0	974.6
13311.1	60°	11279.1	8031.5	1665.2	1051.6	1064.1	1149.0	1067.5	1024.4	969.0	927.1
14606.0	62.5°	12550.4	9207.6	1539.5	922.6	988.2	1051.6	1019.9	976.9	920.3	879.6
16820.2	65°	14429.5	10842.2	1302.9	821.8	903.3	956.5	969.0	926.0	867.1	824.1
18760.4	67.5°	16014.2	11867.8	986.0	738.1	816.2	879.6	914.6	872.8	810.5	768.6
19214.4	70°	15927.1	11122.9	752.8	655.4	739.2	803.7	849.0	816.2	749.4	709.8
17453.0	72.5°	14146.5	9304.9	609.0	571.7	661.1	724.5	778.8	753.9	686.0	647.5
12785.8	75°	10392.8	6605.2	486.8	486.8	563.7	641.8	701.8	686.0	623.7	596.6
5367.9	77.5°	4380.8	2771.1	381.5	404.1	468.6	551.3	626.0	631.6	577.3	611.3
1419.5	80°	1164.8	764.1	290.9	318.1	367.9	455.1	544.5	542.2	483.4	451.7
527.5	82.5°	443.7	301.1	207.2	224.1	266.0	348.7	431.3	444.9	386.0	333.9
207.2	85°	170.9	129.0	127.9	134.7	155.1	230.9	326.0	337.3	290.9	246.8
57.7	87.5°	44.1	38.5	47.5	45.3	71.3	123.4	186.8	193.6	177.7	103.0
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>
3127.7
2983.9
2765.4
2566.2
2446.2
2412.3
2439.4
2477.9
2477.9
2421.3
2316.0
2177.9
2018.3
1841.7
1686.7
1616.5
1513.5
1373.1
1257.6
1180.7
1124.1
1091.2
1009.7
971.2
924.8
879.6
826.4
769.8
713.2
647.5
588.6
554.7
420.0
333.9
254.7
147.2
0.0

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