

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: P953194

Luminaire Tested: **GALN-SB6D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953194
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-SB6D-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 53334 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

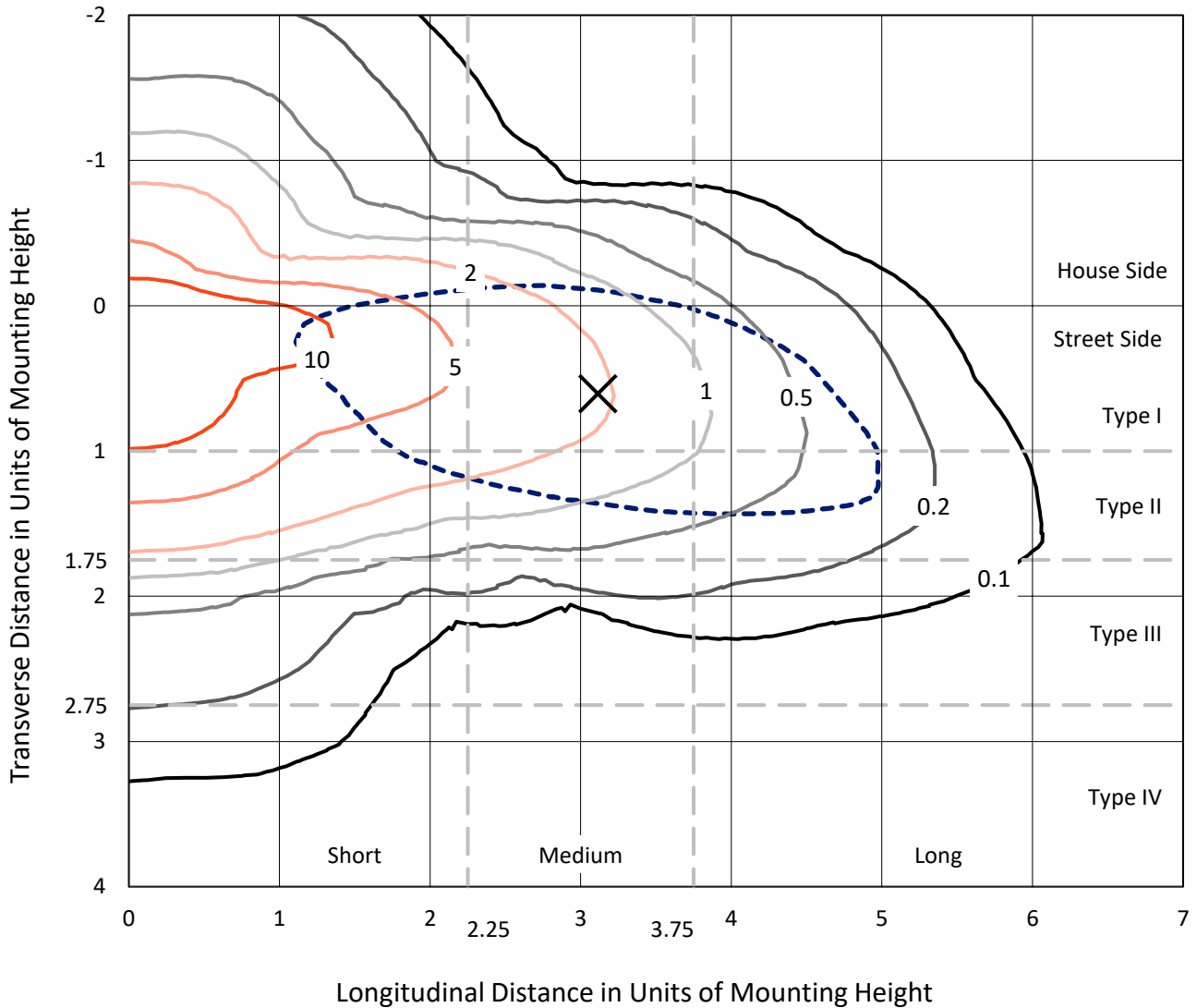
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

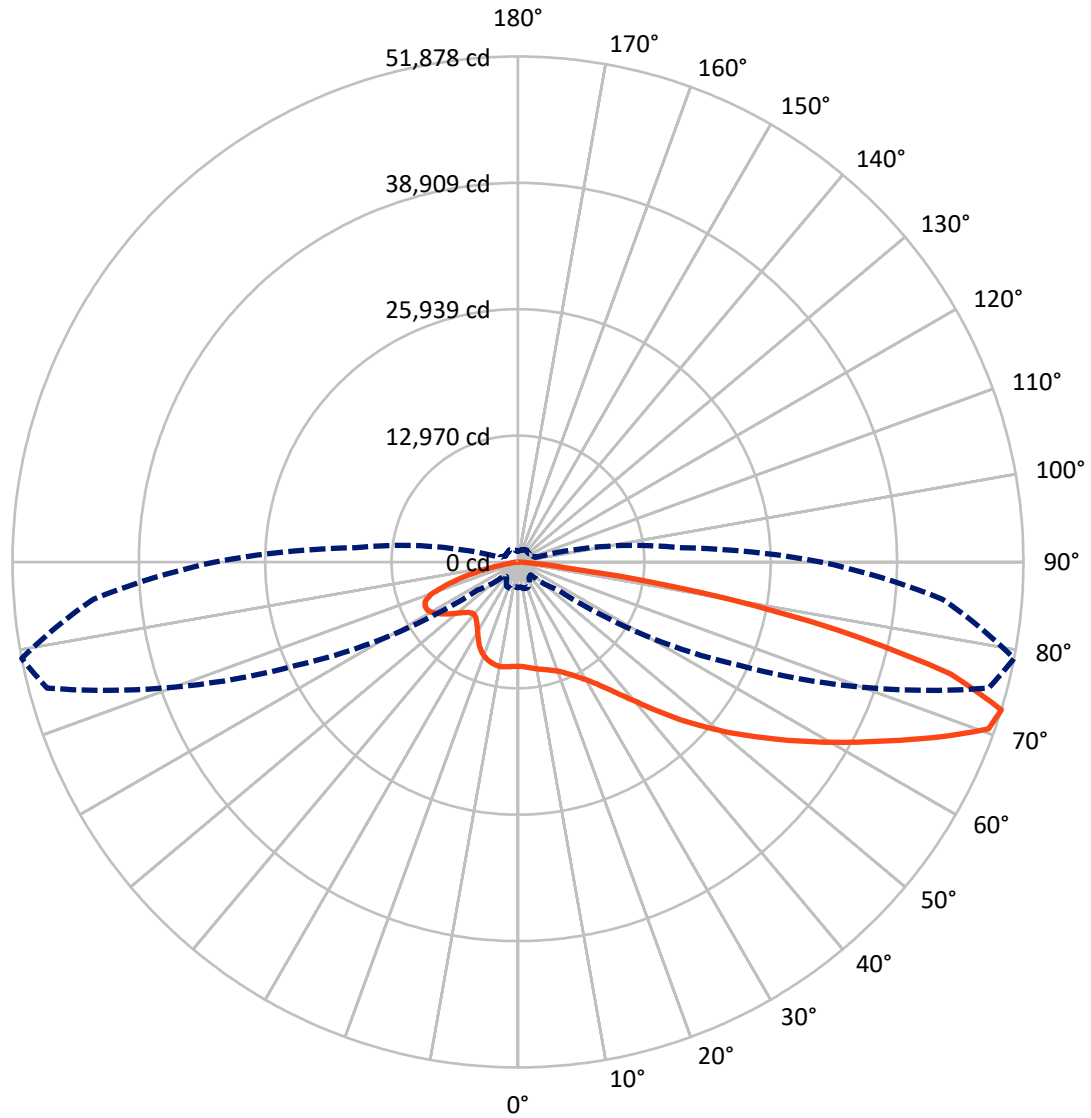
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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
House Side	Lumens	11736.4	0.0	11736.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	41597.6	0.0	41597.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	53334.0	0.0	53334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.8	1.8
10°-20°	2540.8	4.8
20°-30°	4099.9	7.7
30°-40°	6153.3	11.5
40°-50°	8728.8	16.4
50°-60°	11023.3	20.7
60°-70°	11195.7	21.0
70°-80°	7630.4	14.3
80°-90°	990.0	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°	53334.0	100.0
0°-180°	53334.0	100.0

Coefficient of Utilization



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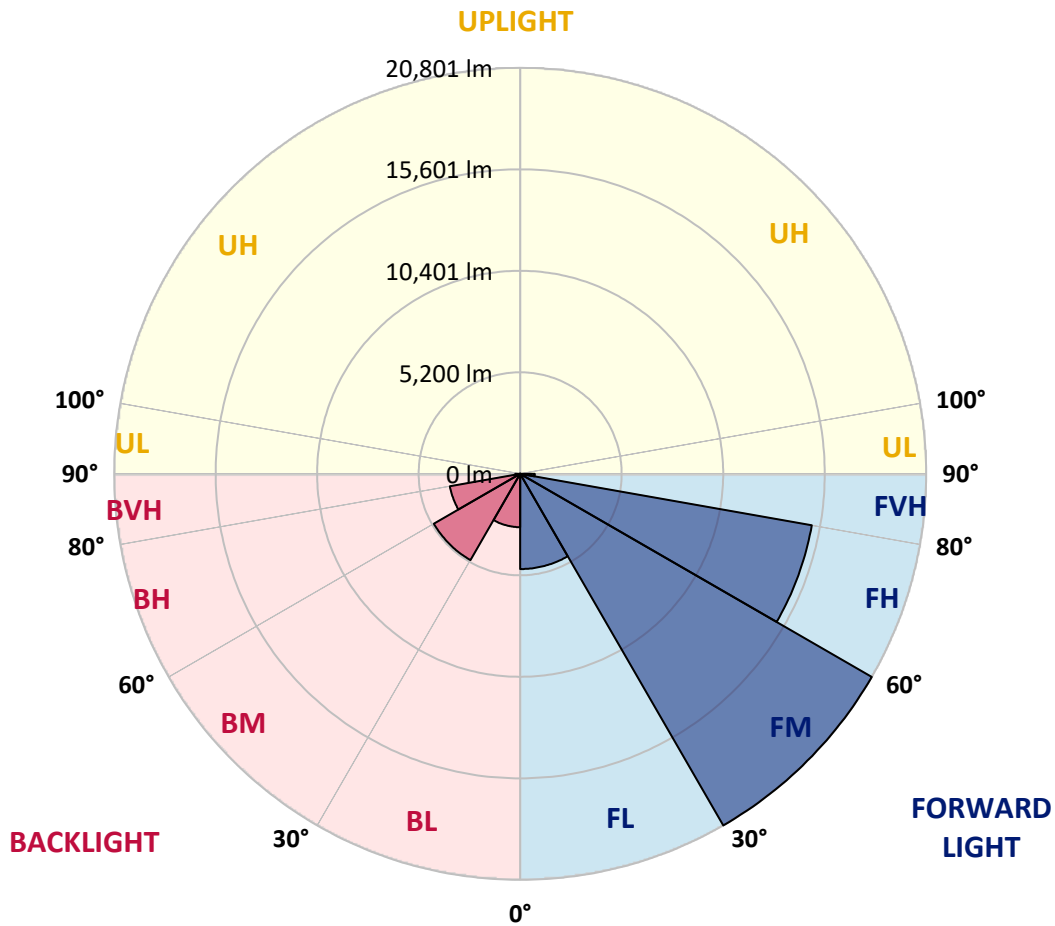
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4878.8	9.1			
FM (30°-60°)	20801.3	39.0			
FH (60°-80°)	15171.7	28.4			G5
FVH (80°-90°)	745.8	1.4			G4/750
BL (0°-30°)	2733.8	5.1	B4/5000		
BM (30°-60°)	5104.1	9.6	B4/8500		
BH (60°-80°)	3654.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	244.2	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°	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3
2.5°	10711.9	10661.2	10692.2	10680.9	10695.0	10711.9	10717.6	10726.0	10754.3	10751.4
5°	10689.4	10638.6	10680.9	10666.8	10703.5	10743.0	10776.8	10807.9	10853.0	10872.7
7.5°	10641.4	10607.6	10649.9	10692.2	10759.9	10819.1	10867.1	10937.6	11002.5	11013.8
10°	10362.1	10336.7	10435.5	10545.5	10731.7	10892.5	10996.9	11078.7	11149.2	11160.5
12.5°	10071.5	10040.5	10150.5	10300.0	10601.9	10892.5	11112.5	11219.7	11281.8	11318.5
15°	10023.6	9998.2	10060.2	10190.0	10441.1	10816.3	11191.5	11389.0	11442.6	11484.9
17.5°	10254.9	10206.9	10232.3	10277.5	10424.2	10745.8	11253.6	11580.9	11662.7	11707.8
20°	10790.9	10723.2	10683.7	10593.4	10568.1	10757.1	11248.0	11812.2	11919.4	11975.8
22.5°	11504.7	11459.5	11374.9	11146.4	10898.1	10895.3	11355.2	12108.4	12308.7	12362.3
25°	12368.0	12300.2	12193.0	11882.7	11405.9	11169.0	11535.7	12486.4	12822.2	12836.3
27.5°	13361.0	13259.4	13112.7	12703.7	12060.4	11597.8	11812.2	12920.9	13411.8	13406.1
30°	14407.7	14306.1	14150.9	13654.4	12844.7	12176.1	12195.9	13389.2	14111.4	14080.4
32.5°	15172.2	15096.0	15065.0	14681.3	13747.5	12858.8	12636.0	13908.3	14974.7	14946.5
35°	15759.0	15660.2	15696.9	15502.3	14732.1	13623.4	13174.8	14526.1	16024.2	16021.4
37.5°	16340.1	16252.7	16283.7	16153.9	15643.3	14593.8	13832.1	15282.2	17324.7	17386.8
40°	16870.5	16777.4	16901.6	16780.2	16351.4	15626.4	14579.7	16137.0	18831.2	18949.7
42.5°	17189.3	17116.0	17321.9	17324.7	16966.4	16498.1	15400.7	17079.3	20574.7	20839.9
45°	17299.3	17273.9	17584.3	17649.2	17510.9	17003.1	16139.8	18106.2	22453.6	22927.5
47.5°	17180.9	17132.9	17561.7	17801.5	17911.5	17240.1	16752.0	19217.7	24372.0	25066.0
50°	16582.8	16489.7	17127.2	17632.2	18024.4	17395.3	17369.9	20501.4	26552.7	27311.6
52.5°	15507.9	15437.4	16162.4	17039.8	17776.1	17471.4	18063.9	21903.5	28623.5	29605.2
55°	14134.0	14040.9	14839.3	15984.7	17158.3	17446.0	18757.9	23472.0	31066.6	32062.5
57.5°	11956.1	11769.9	12779.8	14134.0	16151.1	17415.0	19480.1	25032.1	33549.2	34742.6
60°	8779.4	8503.0	9741.5	11346.7	14182.0	17113.1	20374.4	26781.2	36528.3	37603.2
62.5°	5111.9	4951.1	5760.8	7258.8	10689.4	15335.8	20876.6	28815.3	39456.7	40585.2
65°	3969.4	3924.2	3994.8	4110.4	5949.8	11482.1	19327.8	30798.6	43180.6	43970.6
67.5°	3630.8	3597.0	3628.0	3410.8	3018.6	6395.6	15290.7	31300.7	47169.8	47649.4
70°	3227.4	3187.9	3289.5	3103.3	2375.4	2908.6	9879.7	29478.3	50343.6	51243.5
72.5°	2629.3	2584.2	2821.2	2736.5	2000.2	1867.6	4962.4	25147.8	50010.7	51878.3
75°	2019.9	1994.6	2276.7	2347.2	1630.6	1469.8	2381.1	18693.0	44010.1	45891.8
77.5°	1568.6	1548.8	1692.7	1949.4	1314.7	1139.7	1464.2	11857.3	33165.5	33495.6
80°	1176.4	1120.0	1252.6	1509.3	1024.1	832.2	993.0	6914.7	20964.0	19003.3
82.5°	736.3	708.1	818.1	1007.2	722.2	572.7	646.0	3819.8	8401.4	4948.3
85°	420.4	409.1	445.7	575.5	392.1	330.1	369.6	1687.1	1534.7	1055.1
87.5°	169.3	163.6	203.1	256.7	143.9	121.3	129.8	406.2	338.5	313.1
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°
10706.3	0°	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3	10706.3
10748.6	2.5°	10737.3	10737.3	10697.8	10635.8	10565.2	10520.1	10446.7	10427.0	10350.8	10328.3
10844.5	5°	10867.1	10844.5	10723.2	10548.3	10308.5	10088.5	9845.8	9693.5	9479.1	9402.9
11033.5	7.5°	11030.7	10968.7	10759.9	10376.2	9874.1	9380.3	8866.9	8477.6	8105.2	7972.6
11188.7	10°	11180.2	11092.8	10737.3	10065.9	9197.0	8342.2	7524.0	6951.3	6516.9	6339.1
11360.8	12.5°	11329.8	11169.0	10587.8	9549.6	8235.0	7075.5	6203.7	5758.0	5490.0	5275.6
11501.9	15°	11470.8	11245.1	10356.5	8858.4	7179.8	6003.4	5360.2	5004.7	4790.3	4649.3
11707.8	17.5°	11634.5	11310.0	10009.5	7981.1	6175.5	5261.5	4736.7	4522.3	4480.0	4463.1
11989.9	20°	11863.0	11369.3	9552.4	6999.3	5436.4	4669.0	4398.2	4378.4	4375.6	4367.2
12328.5	22.5°	12108.4	11439.8	8948.7	6107.8	4807.3	4299.4	4251.5	4212.0	4186.6	4183.8
12737.5	25°	12399.0	11462.4	8192.6	5377.1	4271.2	4124.5	4068.1	4008.9	3991.9	3991.9
13203.0	27.5°	12681.1	11386.2	7312.4	4742.4	3969.4	3963.7	3890.4	3870.6	3867.8	3876.3
13733.4	30°	12963.2	11242.3	6437.9	4155.6	3794.5	3794.5	3769.1	3783.2	3794.5	3822.7
14461.3	32.5°	13344.1	11090.0	5707.2	3721.1	3642.1	3613.9	3639.3	3667.5	3678.8	3715.5
15417.6	35°	13902.7	10982.8	5126.0	3484.1	3484.1	3447.5	3461.6	3455.9	3430.5	3413.6
16574.3	37.5°	14641.8	10977.1	4646.4	3374.1	3351.5	3345.9	3348.7	3312.0	3213.3	3094.8
17973.6	40°	15530.5	11129.5	4276.9	3297.9	3281.0	3314.9	3297.9	3199.2	2928.4	2722.4
19694.5	42.5°	16723.8	11563.9	4039.9	3204.8	3255.6	3297.9	3230.2	2888.9	2705.5	2567.3
21655.2	45°	18128.8	12269.2	3918.6	3106.1	3207.7	3258.4	2931.2	2781.7	2635.0	2468.5
23793.6	47.5°	19719.9	13157.9	3890.4	3013.0	3100.5	3131.5	2804.2	2736.5	2570.1	2389.5
25943.4	50°	21452.1	14210.2	3966.5	2903.0	2945.3	2838.1	2761.9	2699.8	2527.8	2350.0
28146.7	52.5°	23243.5	15369.7	4118.9	2753.4	2790.1	2671.6	2745.0	2691.4	2502.4	2262.6
30423.4	55°	25003.9	16537.6	4265.6	2578.5	2632.1	2522.1	2697.0	2657.5	2386.7	2115.9
32852.4	57.5°	26792.5	17699.9	4409.5	2423.4	2479.8	2378.2	2620.9	2567.3	2256.9	1980.5
35504.3	60°	28651.7	18828.4	4477.2	2273.9	2313.3	2245.6	2505.2	2412.1	2110.2	1842.2
38111.0	62.5°	30392.3	19767.9	4367.2	2124.3	2149.7	2121.5	2352.8	2228.7	1963.5	1687.1
40827.8	65°	32138.6	20326.4	4028.6	1977.6	1983.3	1969.2	2138.4	2031.2	1791.4	1551.6
43206.0	67.5°	33721.3	20639.6	3489.8	1819.6	1805.5	1799.9	1938.1	1816.8	1625.0	1416.2
45014.4	70°	34057.0	19844.0	2666.0	1633.5	1633.5	1619.3	1718.1	1594.0	1441.6	1272.3
43719.5	72.5°	31106.1	16692.8	1893.0	1421.9	1444.4	1416.2	1498.0	1393.7	1255.4	1142.6
37679.4	75°	25082.9	12241.0	1376.7	1204.6	1244.1	1196.2	1272.3	1199.0	1080.5	1077.7
25965.9	77.5°	17234.5	7569.2	998.7	993.0	1021.3	959.2	1046.6	1007.2	899.9	852.0
11301.6	80°	7354.8	3018.6	727.9	767.4	767.4	710.9	812.5	823.8	730.7	708.1
2180.8	82.5°	1464.2	857.6	510.6	527.6	496.5	479.6	575.5	637.6	880.2	978.9
657.3	85°	440.1	316.0	307.5	287.8	253.9	256.7	338.5	640.4	789.9	451.4
217.2	87.5°	121.3	79.0	81.8	64.9	53.6	70.5	115.7	485.2	265.2	112.8
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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180°
10706.3
10364.9
9459.3
7989.5
6378.6
5346.1
4674.7
4474.4
4395.4
4214.8
4008.9
3898.8
3842.4
3746.5
3453.1
3097.6
2716.8
2561.6
2457.2
2375.4
2330.3
2245.6
2101.8
1974.8
1833.8
1684.2
1534.7
1399.3
1266.7
1108.7
970.5
798.4
708.1
981.8
389.3
95.9
0.0

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