

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: P954716

Luminaire Tested: **GALN-SB7D-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70150 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

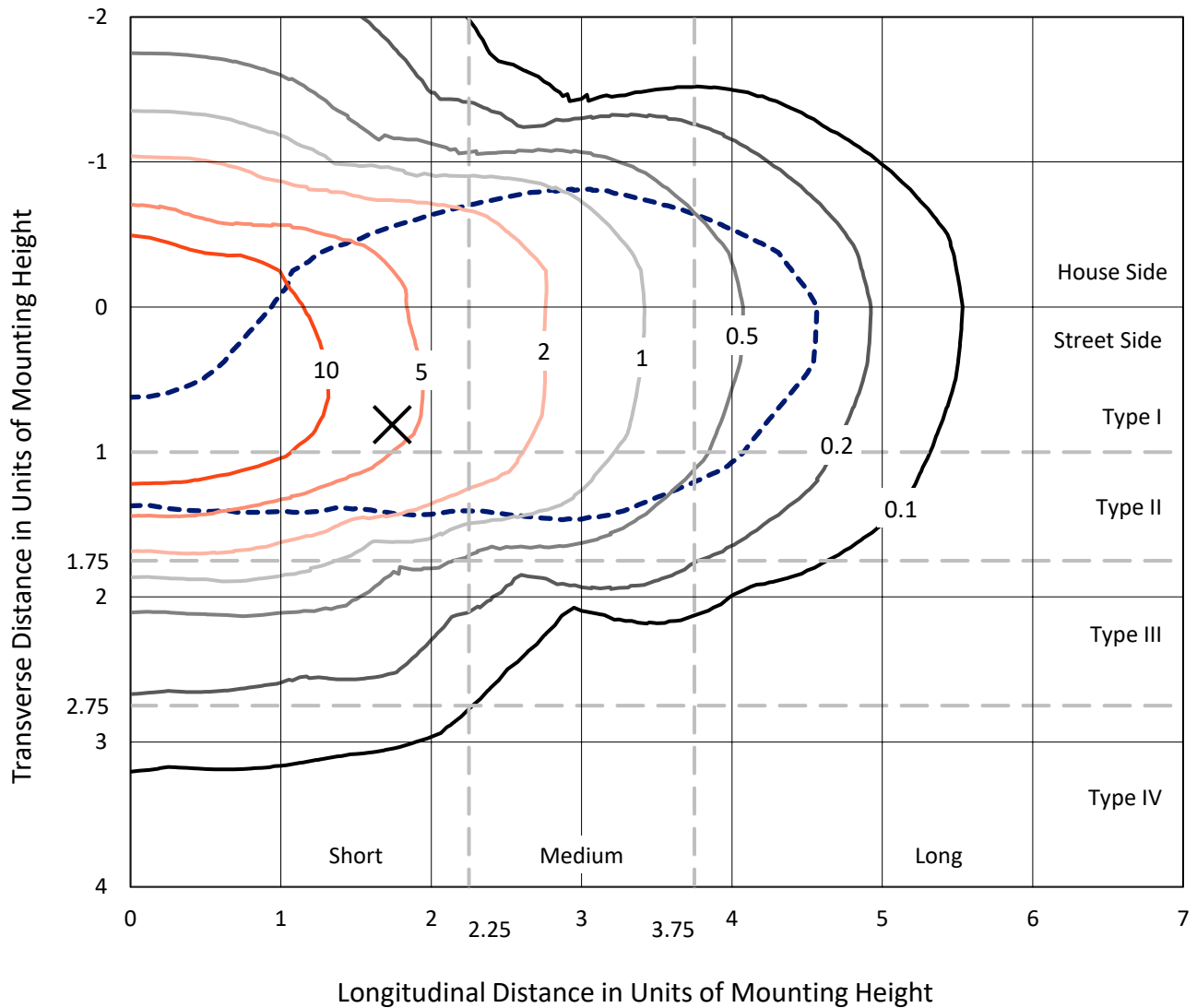
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

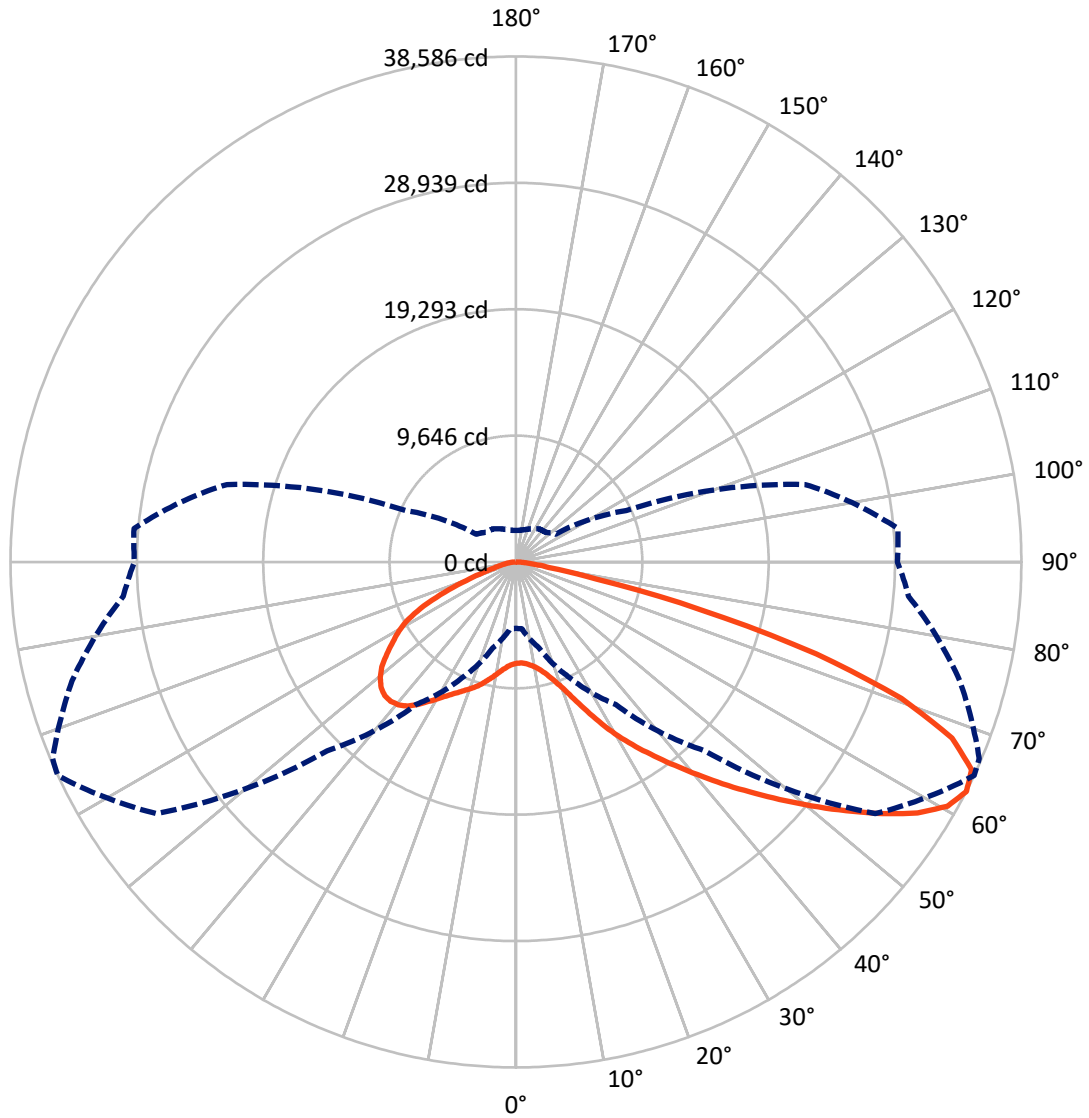
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22136.3	0.0	22136.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	48013.7	0.0	48013.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	70150.0	0.0	70150.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.7	1.1
10°-20°	2613.5	3.7
20°-30°	5299.1	7.6
30°-40°	9170.1	13.1
40°-50°	13877.2	19.8
50°-60°	16270.1	23.2
60°-70°	13640.5	19.4
70°-80°	7530.7	10.7
80°-90°	978.2	1.4
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°	70150.0	100.0
0°-180°	70150.0	100.0

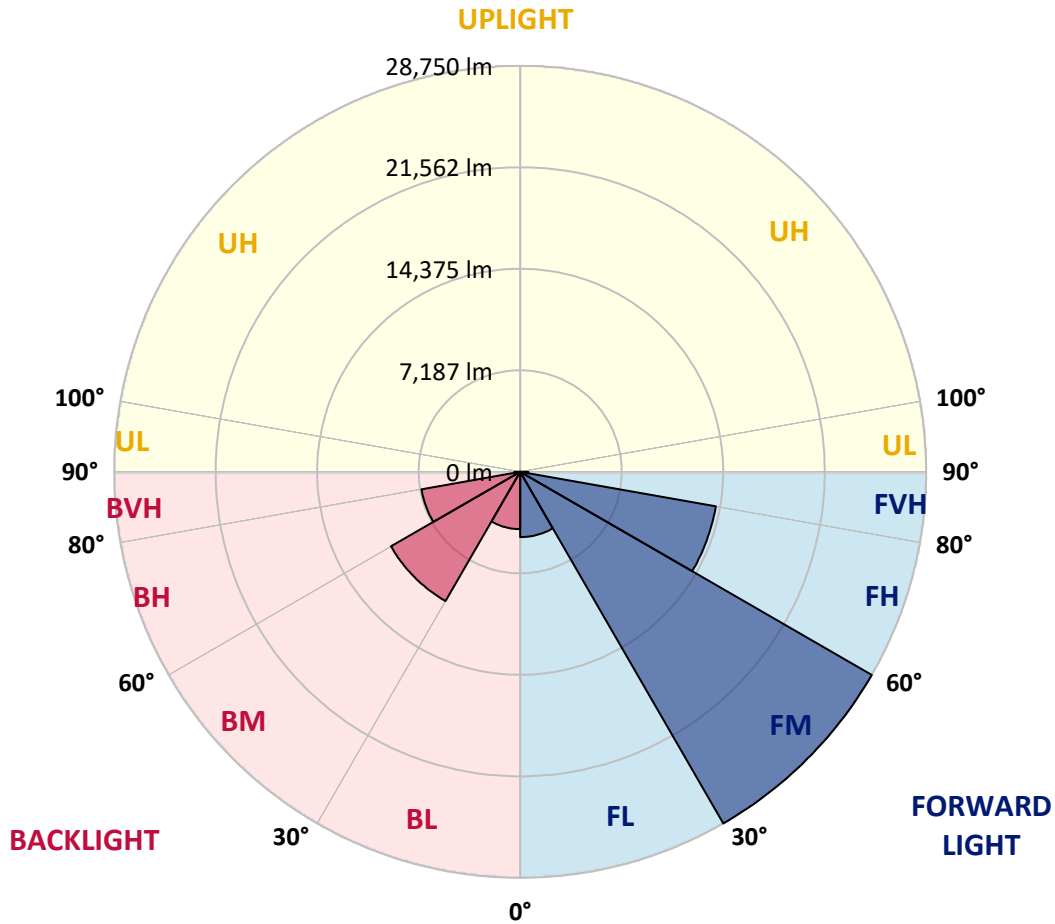


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4623.8	6.6			
FM (30°-60°)	28749.8	41.0			
FH (60°-80°)	14070.0	20.1			G5
FVH (80°-90°)	570.1	0.8			G4/750
BL (0°-30°)	4059.5	5.8	B4/5000		
BM (30°-60°)	10567.6	15.1	B5		
BH (60°-80°)	7101.1	10.1	B5		G5
BVH (80°-90°)	408.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2
2.5°	7679.3	7657.4	7675.6	7675.6	7682.9	7679.3	7704.7	7712.0	7722.9	7744.8
5°	7602.8	7599.2	7632.0	7661.1	7690.2	7715.7	7748.4	7795.7	7803.0	7828.5
7.5°	7577.4	7555.5	7606.5	7642.9	7712.0	7773.9	7861.2	7941.3	7974.1	7985.0
10°	7773.9	7737.5	7784.8	7806.7	7864.9	7926.8	8028.7	8156.0	8192.4	8236.1
12.5°	8108.7	8068.7	8137.8	8170.6	8225.2	8279.8	8348.9	8472.7	8490.9	8570.9
15°	8567.3	8520.0	8563.7	8603.7	8694.7	8745.6	8814.8	8934.9	8934.9	8996.8
17.5°	9189.7	9127.8	9160.5	9175.1	9233.3	9309.8	9426.2	9531.8	9586.4	9564.5
20°	10117.7	10041.3	10041.3	9968.5	9946.7	10008.5	10161.4	10307.0	10365.2	10252.4
22.5°	11511.6	11402.4	11340.6	11093.1	10994.8	11002.1	11155.0	11333.3	11380.6	11180.4
25°	13284.1	13113.0	13029.3	12665.3	12443.3	12250.4	12370.5	12599.8	12665.3	12417.9
27.5°	15056.5	15067.4	14987.3	14550.6	14183.0	13830.0	13768.1	14008.3	14077.5	13797.2
30°	17542.2	17283.8	17131.0	16606.9	16082.8	15587.8	15333.1	15431.3	15449.5	15114.7
32.5°	19685.9	19620.4	19292.8	18834.2	18160.9	17385.7	16959.9	16803.4	16774.3	16297.5
35°	22128.0	22091.6	21745.8	21199.9	20472.0	19394.7	18626.8	18179.1	18142.7	17473.1
37.5°	24610.1	24610.1	24271.6	23674.7	22921.4	21574.8	20406.5	19696.8	19580.3	18706.9
40°	26589.9	26469.8	26531.7	26280.6	25418.0	23987.7	22382.7	21352.7	21196.3	20148.1
42.5°	27714.5	27674.5	28045.7	28326.0	27972.9	26830.1	24559.1	23147.0	22928.6	21734.9
45°	27965.7	27922.0	28584.4	29610.7	30105.7	29636.2	26924.8	25035.9	24770.2	23394.5
47.5°	27387.0	27299.6	28271.4	29890.9	31477.7	32303.9	29487.0	27084.9	26699.1	25010.4
50°	25647.3	25563.6	27034.0	29184.9	31940.0	34116.4	32267.5	29257.7	28668.1	26742.8
52.5°	21865.9	21905.9	24209.7	27165.0	31332.2	35244.6	34662.3	31546.9	30837.2	28515.2
55°	17032.7	17120.0	19951.6	23205.2	28901.0	35073.5	36296.4	33905.3	33199.2	30182.1
57.5°	12195.9	12581.6	15234.8	18455.7	24231.6	32362.1	36653.1	36147.2	35463.0	32001.8
60°	7904.9	7974.1	10703.7	13950.1	18452.1	27543.5	35928.8	37846.8	37311.8	33858.0
62.5°	5066.1	5113.4	6776.7	9757.4	13280.4	20377.4	33490.4	38585.6	38421.8	35084.5
65°	3723.2	3686.8	4553.0	6449.1	8945.8	12567.1	28755.4	38229.0	38552.9	35852.4
67.5°	3108.1	3057.2	3483.0	4465.6	6591.1	7137.0	21276.3	35910.6	37097.1	35765.0
70°	2831.5	2787.8	3046.2	3315.6	5142.6	4778.6	10725.5	31219.3	33046.4	34771.5
72.5°	2398.4	2322.0	2675.0	2944.3	3999.8	3664.9	4432.9	23980.4	26207.8	31586.9
75°	1859.8	1808.8	2110.9	2591.3	3006.2	2860.6	2802.4	14561.5	16992.7	24428.1
77.5°	1474.0	1404.8	1681.4	2019.9	2704.1	2158.2	2041.7	6270.8	8680.1	15595.1
80°	1110.0	1048.2	1277.5	1597.7	2078.1	1626.8	1321.1	2558.5	3271.9	7901.3
82.5°	789.8	735.2	891.7	1171.9	1397.6	1459.4	811.6	1433.9	1612.3	3046.2
85°	505.9	473.1	596.9	735.2	888.0	939.0	495.0	749.7	822.5	1255.6
87.5°	276.6	225.6	320.3	342.1	411.3	374.9	236.6	273.0	294.8	454.9
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°
7730.2	0°	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2	7730.2
7744.8	2.5°	7759.3	7770.3	7806.7	7817.6	7843.0	7875.8	7897.6	7919.5	7919.5	7941.3
7861.2	5°	7864.9	7890.4	7966.8	8006.8	8072.3	8137.8	8177.9	8225.2	8254.3	8268.9
8046.9	7.5°	8068.7	8108.7	8217.9	8287.1	8399.9	8490.9	8552.7	8618.3	8632.8	8672.8
8305.3	10°	8345.3	8392.6	8516.4	8647.4	8782.0	8894.9	8953.1	9000.4	9018.6	9025.9
8636.5	12.5°	8661.9	8731.1	8891.2	9051.4	9193.3	9291.6	9306.1	9295.2	9244.2	9200.6
9044.1	15°	9051.4	9113.2	9291.6	9466.3	9604.6	9622.7	9531.8	9473.5	9411.7	9400.7
9499.0	17.5°	9517.2	9550.0	9713.7	9884.8	9895.7	9833.8	9699.2	9644.6	9586.4	9546.3
10092.2	20°	10059.5	10048.6	10165.0	10237.8	10161.4	9972.1	9768.3	9677.3	9619.1	9571.8
10820.1	22.5°	10707.3	10623.6	10609.0	10590.8	10387.0	9990.3	9713.7	9597.3	9506.3	9440.8
11835.5	25°	11649.9	11329.7	11107.7	10983.9	10525.3	9892.1	9539.0	9280.6	9109.6	8996.8
13076.6	27.5°	12829.1	12290.5	11730.0	11427.9	10525.3	9691.9	9116.9	8698.3	8418.1	8301.6
14277.6	30°	13953.7	13389.6	12563.4	11962.9	10499.9	9364.3	8436.3	7854.0	7526.4	7410.0
15304.0	32.5°	14914.5	14299.5	13447.8	12548.9	10438.0	8833.0	7591.9	6947.7	6631.1	6492.8
16319.4	35°	15806.2	15151.1	14335.9	13193.1	10274.2	8054.1	6663.9	6172.5	5819.5	5597.5
17353.0	37.5°	16719.7	15940.9	15176.6	13775.4	9979.4	7144.3	5950.5	5532.0	5117.1	4818.7
18452.1	40°	17713.3	16781.6	16075.5	14121.1	9495.4	6278.1	5397.3	5015.2	4574.8	4258.2
19718.6	42.5°	18874.3	17789.7	17076.4	14299.5	8833.0	5663.0	5037.0	4662.2	4247.3	3988.9
21076.1	45°	20086.2	18899.7	17989.9	14295.8	8094.2	5375.5	4920.6	4549.3	4090.8	3821.4
22470.1	47.5°	21356.4	20060.7	18779.6	14062.9	7453.6	5415.5	4855.0	4305.5	3799.6	3537.6
23878.5	50°	22630.2	21330.9	19543.9	13626.2	7180.7	5328.2	4611.2	3963.4	3366.5	3129.9
25199.7	52.5°	23893.1	22681.2	20202.7	13003.8	6904.1	5004.3	4298.2	3519.4	3188.2	3024.4
26564.5	55°	25163.3	24016.8	20919.7	12097.6	6212.6	4625.8	3774.1	3351.9	3046.2	2897.0
27900.1	57.5°	26437.1	25560.0	21600.2	11191.4	5342.7	4159.9	3486.6	3148.1	2904.3	2776.9
29017.5	60°	27761.8	27325.1	22302.6	10357.9	4483.8	3563.0	3275.5	2984.4	2736.9	2594.9
30091.1	62.5°	29126.6	29268.6	22852.2	9284.3	3694.1	3199.1	3086.3	2787.8	2547.6	2413.0
30979.1	65°	30502.4	31142.9	23212.5	7795.7	2995.3	2853.3	2882.5	2573.1	2329.3	2212.8
31630.6	67.5°	31539.6	32493.2	23110.6	5899.6	2456.6	2525.8	2627.7	2347.5	2118.2	2027.2
31525.1	70°	31656.1	32333.0	22106.1	4039.8	2056.3	2205.5	2343.8	2125.4	1888.9	1823.4
30040.2	72.5°	30105.7	30149.3	19307.4	2638.6	1739.7	1936.2	2045.4	1899.8	1670.5	1605.0
26280.6	75°	26040.4	24934.0	14175.7	1739.7	1455.8	1663.2	1765.1	1663.2	1441.2	1455.8
19664.0	77.5°	19729.5	17658.7	8607.3	1237.4	1215.6	1397.6	1535.9	1463.1	1273.8	1430.3
9888.4	80°	10165.0	9553.6	3839.6	924.4	960.8	1117.3	1262.9	1168.3	1008.1	960.8
2209.2	82.5°	2329.3	2707.8	1514.0	662.4	695.1	804.3	964.5	877.1	724.3	611.4
920.8	85°	815.2	891.7	669.7	414.9	407.6	502.2	655.1	586.0	491.3	393.1
389.4	87.5°	258.4	338.5	251.1	167.4	174.7	225.6	302.1	276.6	229.3	149.2
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°
7730.2
7941.3
8276.1
8658.3
9007.7
9200.6
9400.7
9550.0
9575.4
9462.6
9040.4
8359.9
7479.1
6562.0
5670.3
4898.7
4320.0
4039.8
3865.1
3574.0
3144.5
3024.4
2882.5
2755.1
2584.0
2409.3
2209.2
2030.8
1827.0
1601.4
1404.8
1259.3
877.1
604.2
414.9
156.5
0.0

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