

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: P955693

Luminaire Tested: **GALN-SB8C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955693
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-SB8C-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52340 lumens
Efficiency: N/A
Efficacy: 130.9 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

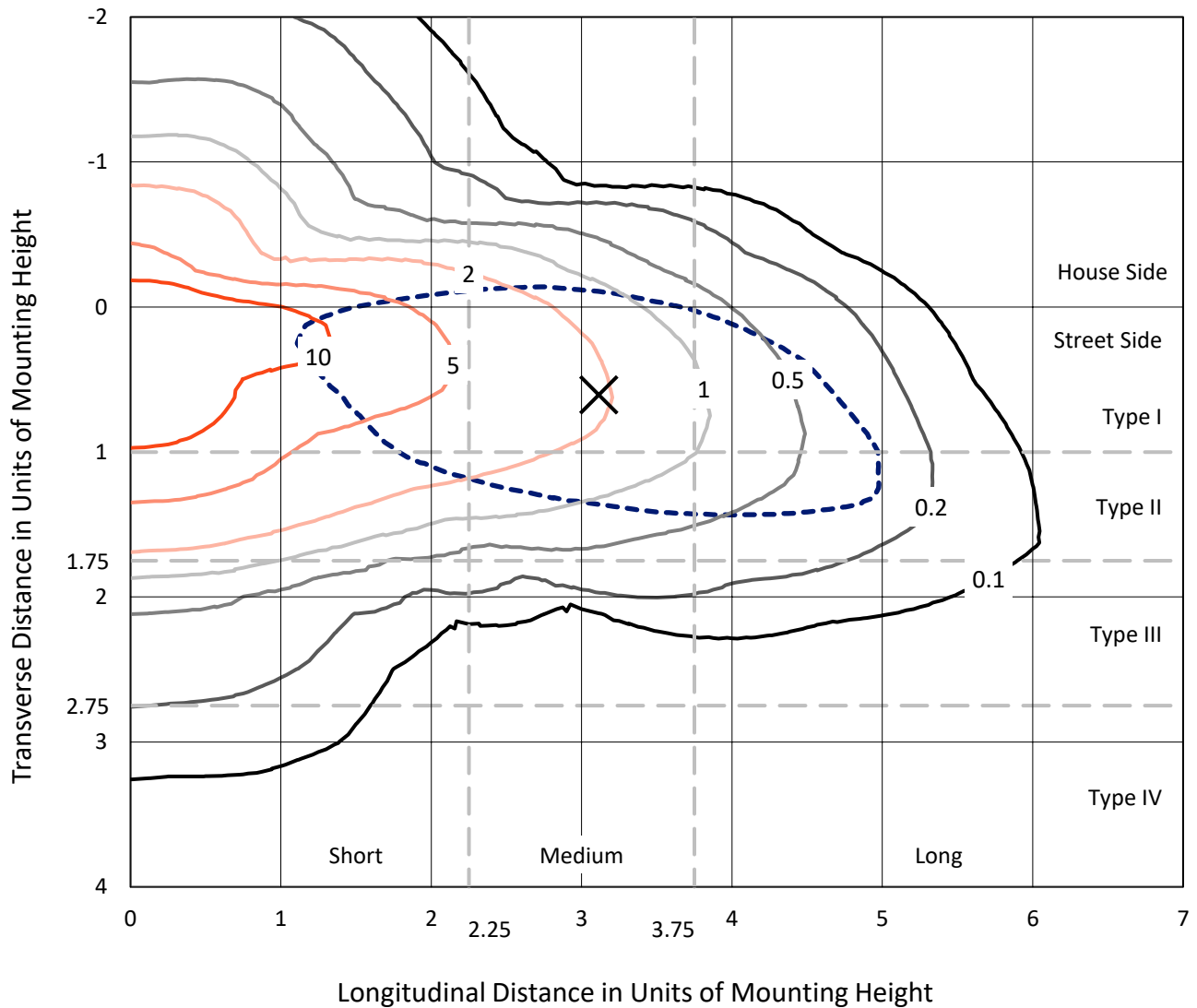
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

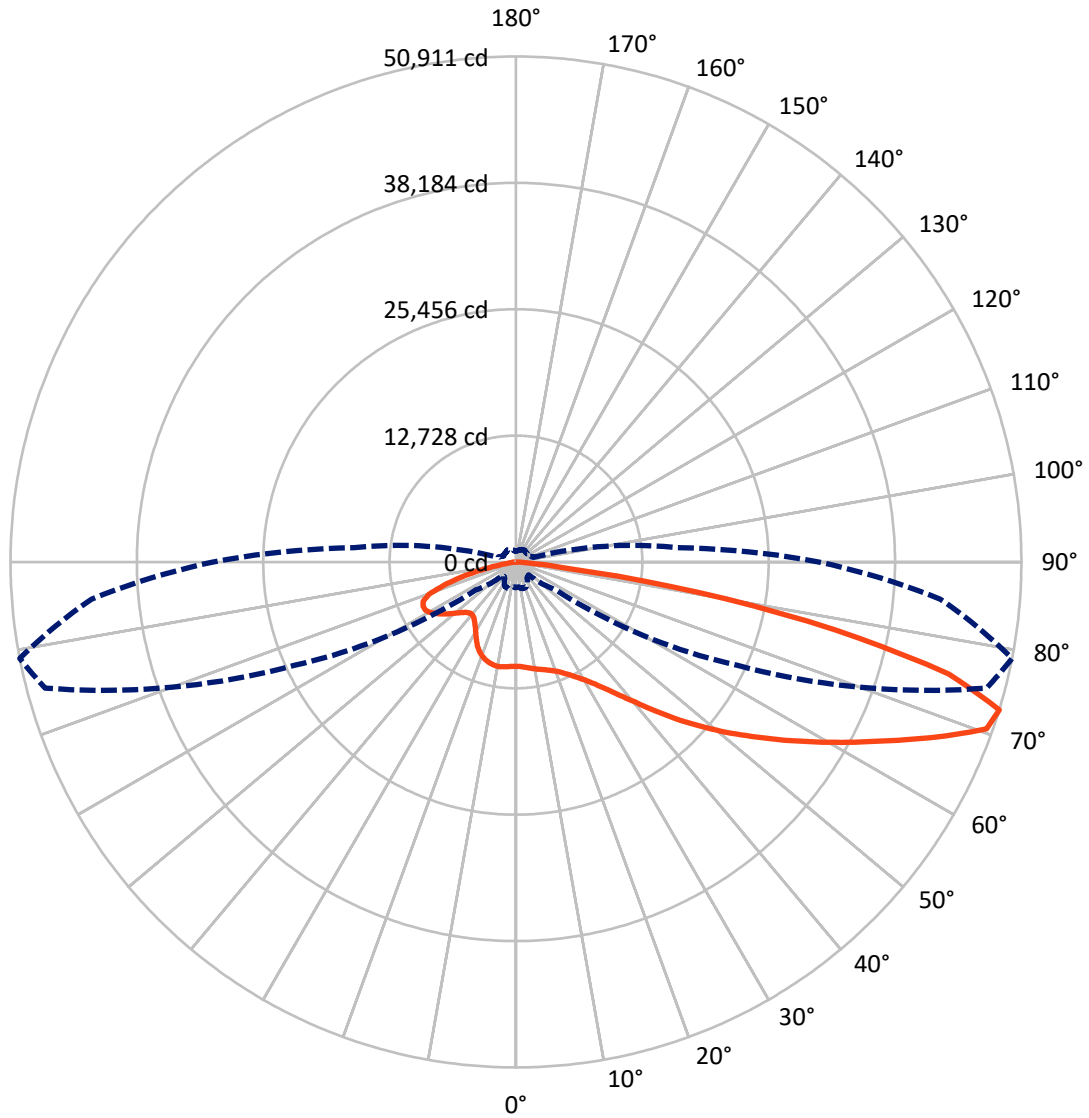
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	11517.7	0.0	11517.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	40822.3	0.0	40822.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	52340.0	0.0	52340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	953.7	1.8
10°-20°	2493.5	4.8
20°-30°	4023.4	7.7
30°-40°	6038.6	11.5
40°-50°	8566.1	16.4
50°-60°	10817.9	20.7
60°-70°	10987.0	21.0
70°-80°	7488.1	14.3
80°-90°	971.5	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°	52340.0	100.0
0°-180°	52340.0	100.0

Coefficient of Utilization

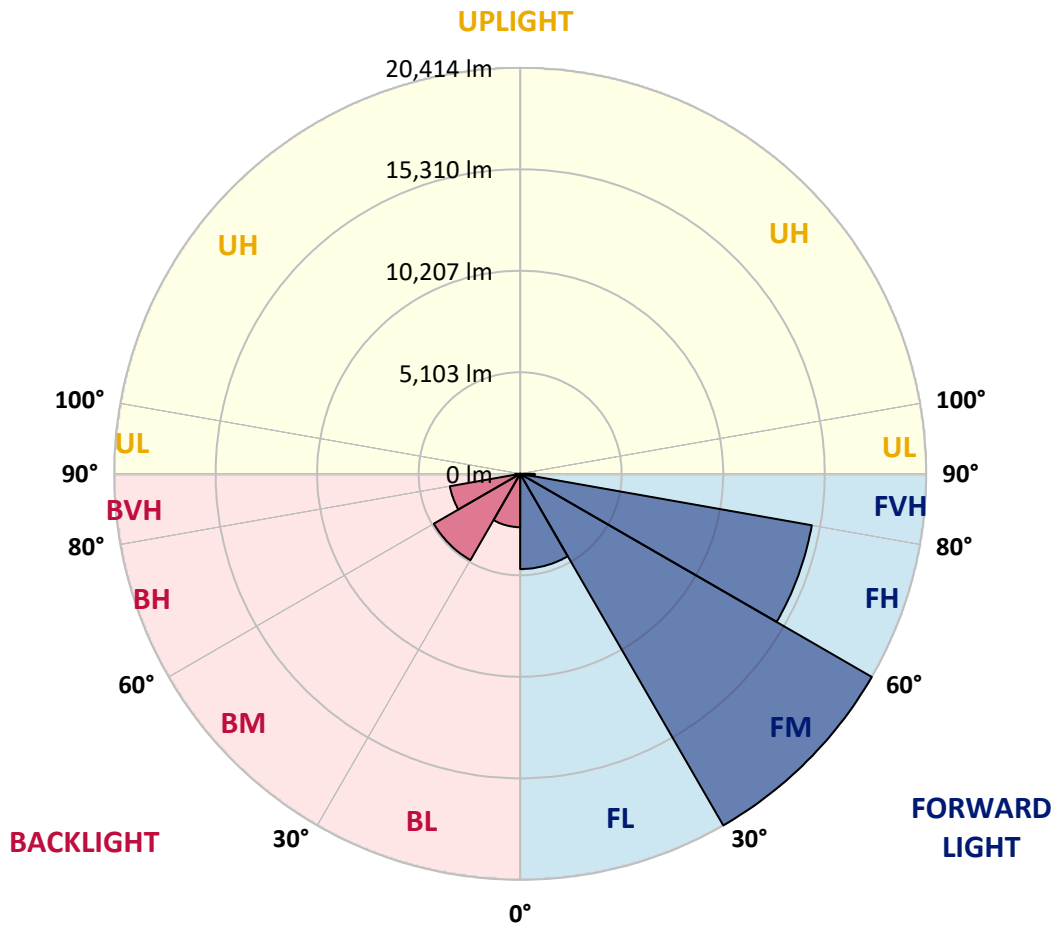


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4787.8	9.1			
FM (30°-60°)	20413.7	39.0			
FH (60°-80°)	14889.0	28.4			G5
FVH (80°-90°)	731.9	1.4			G4/750
BL (0°-30°)	2682.8	5.1	B4/5000		
BM (30°-60°)	5009.0	9.6	B4/8500		
BH (60°-80°)	3586.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	239.7	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°	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8
2.5°	10512.3	10462.5	10492.9	10481.8	10495.7	10512.3	10517.8	10526.1	10553.8	10551.1
5°	10490.1	10440.3	10481.8	10468.0	10504.0	10542.7	10576.0	10606.4	10650.7	10670.1
7.5°	10443.1	10409.9	10451.4	10492.9	10559.4	10617.5	10664.6	10733.8	10797.5	10808.5
10°	10169.0	10144.1	10241.0	10348.9	10531.7	10689.5	10791.9	10872.2	10941.4	10952.5
12.5°	9883.8	9853.4	9961.3	10108.1	10404.3	10689.5	10905.4	11010.6	11071.5	11107.5
15°	9836.8	9811.8	9872.8	10000.1	10246.5	10614.7	10983.0	11176.8	11229.4	11270.9
17.5°	10063.8	10016.7	10041.6	10085.9	10229.9	10545.5	11043.9	11365.0	11445.3	11489.6
20°	10589.8	10523.4	10484.6	10396.0	10371.1	10556.6	11038.3	11592.0	11697.2	11752.6
22.5°	11290.3	11246.0	11162.9	10938.7	10695.0	10692.3	11143.5	11882.7	12079.3	12131.9
25°	12137.5	12071.0	11965.8	11661.3	11193.4	10960.8	11320.7	12253.7	12583.2	12597.0
27.5°	13112.0	13012.3	12868.4	12466.9	11835.7	11381.6	11592.0	12680.1	13161.8	13156.3
30°	14139.1	14039.5	13887.2	13399.9	12605.3	11949.2	11968.6	13139.7	13848.4	13818.0
32.5°	14889.4	14814.7	14784.2	14407.7	13491.3	12619.2	12400.5	13649.1	14695.6	14667.9
35°	15465.3	15368.4	15404.4	15213.3	14457.5	13369.5	12929.3	14255.4	15725.5	15722.8
37.5°	16035.6	15949.8	15980.2	15852.9	15351.8	14321.9	13574.3	14997.4	17001.8	17062.8
40°	16556.1	16464.7	16586.6	16467.5	16046.7	15335.2	14308.0	15836.3	18480.3	18596.5
42.5°	16869.0	16797.0	16999.1	17001.8	16650.2	16190.7	15113.7	16761.0	20191.2	20451.5
45°	16976.9	16952.0	17256.6	17320.2	17184.6	16686.2	15839.0	17768.7	22035.1	22500.2
47.5°	16860.6	16813.6	17234.4	17469.7	17577.7	16918.8	16439.8	18859.6	23917.8	24598.8
50°	16273.7	16182.3	16808.0	17303.6	17688.5	17071.1	17046.1	20119.3	26057.9	26802.6
52.5°	15218.9	15149.7	15861.2	16722.2	17444.8	17145.8	17727.2	21495.2	28090.0	29053.5
55°	13870.6	13779.2	14562.7	15686.8	16838.5	17120.9	18408.3	23034.6	30487.6	31464.9
57.5°	11733.2	11550.5	12541.7	13870.6	15850.1	17090.4	19117.0	24565.6	32923.9	34095.1
60°	8615.8	8344.5	9559.9	11135.2	13917.6	16794.2	19994.7	26282.1	35847.6	36902.4
62.5°	5016.7	4858.9	5653.4	7123.6	10490.1	15050.0	20487.5	28278.3	38721.3	39828.8
65°	3895.4	3851.1	3920.3	4033.8	5838.9	11268.1	18967.5	30224.6	42375.9	43151.1
67.5°	3563.2	3529.9	3560.4	3347.2	2962.4	6276.4	15005.7	30717.4	46290.6	46761.3
70°	3167.3	3128.5	3228.2	3045.4	2331.1	2854.4	9695.6	28928.9	49405.3	50288.5
72.5°	2580.3	2536.0	2768.6	2685.5	1962.9	1832.8	4869.9	24679.1	49078.6	50911.4
75°	1982.3	1957.4	2234.2	2303.5	1600.2	1442.4	2336.7	18344.6	43189.8	45036.5
77.5°	1539.3	1519.9	1661.1	1913.1	1290.2	1118.5	1436.9	11636.3	32547.4	32871.3
80°	1154.5	1099.1	1229.2	1481.2	1005.0	816.7	974.5	6785.8	20573.3	18649.1
82.5°	722.6	694.9	802.9	988.4	708.8	562.0	634.0	3748.7	8244.8	4856.1
85°	412.5	401.4	437.4	564.8	384.8	323.9	362.7	1655.6	1506.1	1035.4
87.5°	166.1	160.6	199.3	251.9	141.2	119.0	127.4	398.7	332.2	307.3
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°
10506.8	0°	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8	10506.8
10548.3	2.5°	10537.2	10537.2	10498.5	10437.5	10368.3	10324.0	10252.0	10232.7	10157.9	10135.8
10642.4	5°	10664.6	10642.4	10523.4	10351.7	10116.4	9900.4	9662.3	9512.8	9302.4	9227.7
10827.9	7.5°	10825.1	10764.2	10559.4	10182.8	9690.0	9205.5	8701.6	8319.6	7954.1	7824.0
10980.2	10°	10971.9	10886.1	10537.2	9878.3	9025.6	8186.7	7383.8	6821.8	6395.4	6221.0
11149.1	12.5°	11118.6	10960.8	10390.5	9371.6	8081.5	6943.6	6088.1	5650.7	5387.7	5177.2
11287.5	15°	11257.0	11035.6	10163.5	8693.3	7046.0	5891.5	5260.3	4911.5	4701.0	4562.6
11489.6	17.5°	11417.6	11099.2	9822.9	7832.3	6060.4	5163.4	4648.4	4438.0	4396.5	4379.9
11766.5	20°	11641.9	11157.4	9374.4	6868.8	5335.1	4582.0	4316.2	4296.8	4294.1	4285.8
12098.7	22.5°	11882.7	11226.6	8781.9	5994.0	4717.7	4219.3	4172.2	4133.5	4108.6	4105.8
12500.1	25°	12167.9	11248.7	8040.0	5276.9	4191.6	4047.7	3992.3	3934.2	3917.5	3917.5
12956.9	27.5°	12444.8	11174.0	7176.2	4654.0	3895.4	3889.9	3817.9	3798.5	3795.7	3804.0
13477.4	30°	12721.6	11032.8	6317.9	4078.1	3723.7	3723.7	3698.8	3712.7	3723.7	3751.4
14191.7	32.5°	13095.4	10883.3	5600.8	3651.8	3574.2	3546.5	3571.5	3599.2	3610.2	3646.2
15130.3	35°	13643.6	10778.1	5030.5	3419.2	3419.2	3383.2	3397.0	3391.5	3366.6	3350.0
16265.4	37.5°	14368.9	10772.5	4559.8	3311.2	3289.1	3283.5	3286.3	3250.3	3153.4	3037.1
17638.6	40°	15241.0	10922.0	4197.2	3236.5	3219.9	3253.1	3236.5	3139.6	2873.8	2671.7
19327.5	42.5°	16412.1	11348.4	3964.6	3145.1	3194.9	3236.5	3170.0	2835.0	2655.1	2519.4
21251.6	45°	17790.9	12040.6	3845.6	3048.2	3147.9	3197.7	2876.6	2729.8	2585.9	2422.5
23350.2	47.5°	19352.4	12912.7	3817.9	2956.8	3042.7	3073.1	2752.0	2685.5	2522.2	2345.0
25459.9	50°	21052.3	13945.3	3892.6	2848.9	2890.4	2785.2	2710.4	2649.5	2480.6	2306.2
27622.1	52.5°	22810.3	15083.2	4042.1	2702.1	2738.1	2621.8	2693.8	2641.2	2455.7	2220.4
29856.4	55°	24537.9	16229.4	4186.1	2530.5	2583.1	2475.1	2646.8	2608.0	2342.2	2076.4
32240.1	57.5°	26293.2	17370.1	4327.3	2378.2	2433.6	2333.9	2572.0	2519.4	2214.9	1943.5
34842.6	60°	28117.7	18477.5	4393.7	2231.5	2270.2	2203.8	2458.5	2367.1	2070.9	1807.9
37400.7	62.5°	29825.9	19399.4	4285.8	2084.7	2109.7	2082.0	2309.0	2187.2	1926.9	1655.6
40066.9	65°	31539.7	19947.6	3953.5	1940.8	1946.3	1932.5	2098.6	1993.4	1758.0	1522.7
42400.8	67.5°	33092.8	20254.9	3424.7	1785.7	1771.9	1766.4	1902.0	1783.0	1594.7	1389.8
44175.4	70°	33422.3	19474.2	2616.3	1603.0	1603.0	1589.2	1686.1	1564.2	1414.7	1248.6
42904.7	72.5°	30526.4	16381.7	1857.7	1395.4	1417.5	1389.8	1470.1	1367.7	1232.0	1121.3
36977.1	75°	24615.4	12012.9	1351.1	1182.2	1220.9	1173.9	1248.6	1176.6	1060.4	1057.6
25482.0	77.5°	16913.2	7428.1	980.1	974.5	1002.2	941.3	1027.1	988.4	883.2	836.1
11090.9	80°	7217.7	2962.4	714.3	753.1	753.1	697.7	797.4	808.4	717.1	694.9
2140.1	82.5°	1436.9	841.6	501.1	517.7	487.3	470.7	564.8	625.7	863.8	960.7
645.1	85°	431.9	310.1	301.8	282.4	249.2	251.9	332.2	628.5	775.2	443.0
213.2	87.5°	119.0	77.5	80.3	63.7	52.6	69.2	113.5	476.2	260.2	110.7
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°
10506.8
10171.8
9283.0
7840.6
6259.8
5246.5
4587.5
4391.0
4313.4
4136.3
3934.2
3826.2
3770.8
3676.7
3388.7
3039.9
2666.1
2513.9
2411.4
2331.1
2286.8
2203.8
2062.6
1938.0
1799.6
1652.8
1506.1
1373.2
1243.1
1088.1
952.4
783.5
694.9
963.5
382.1
94.1
0.0

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