

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: P944022

Luminaire Tested: **GALN-SB8D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86295 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

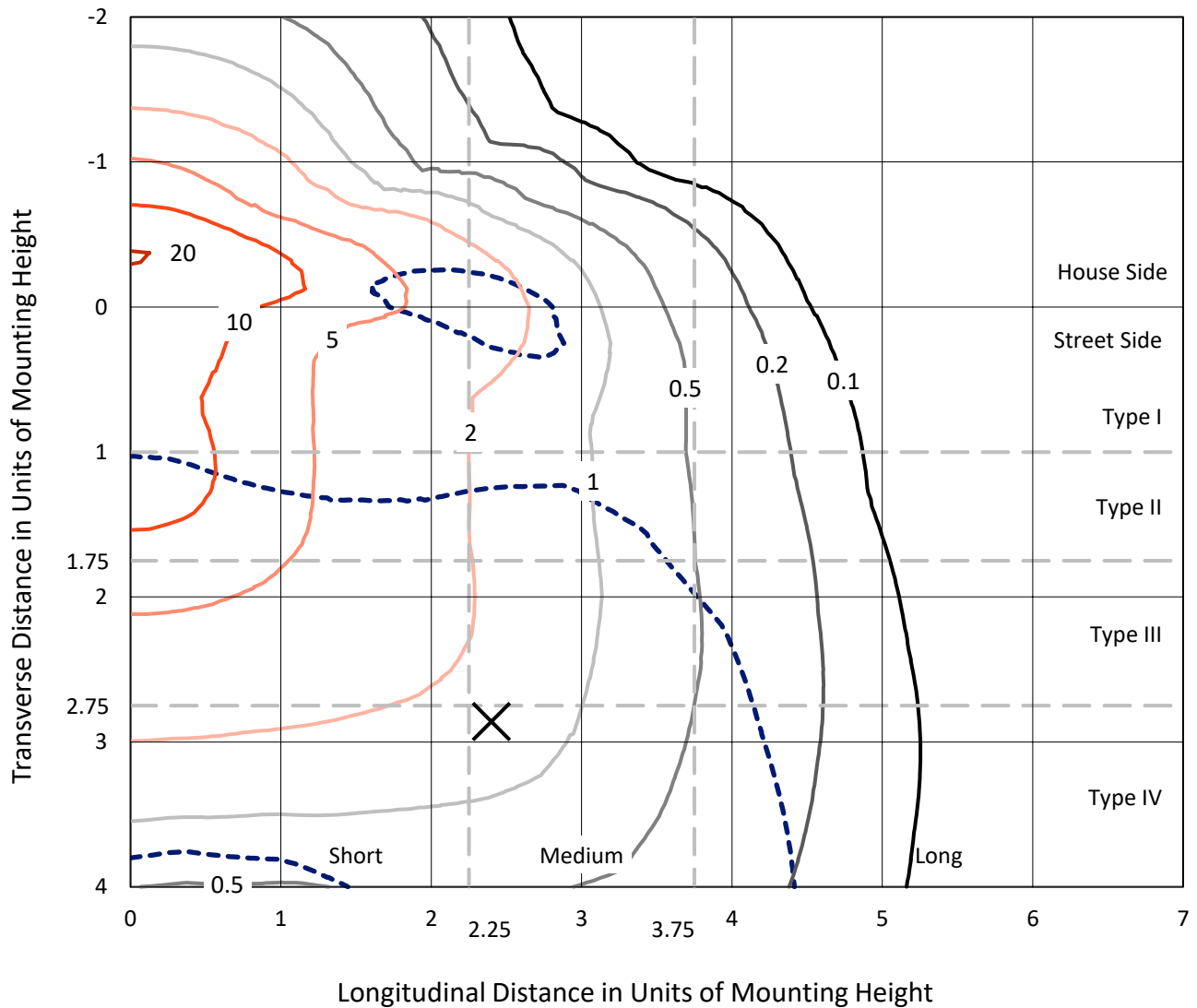
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

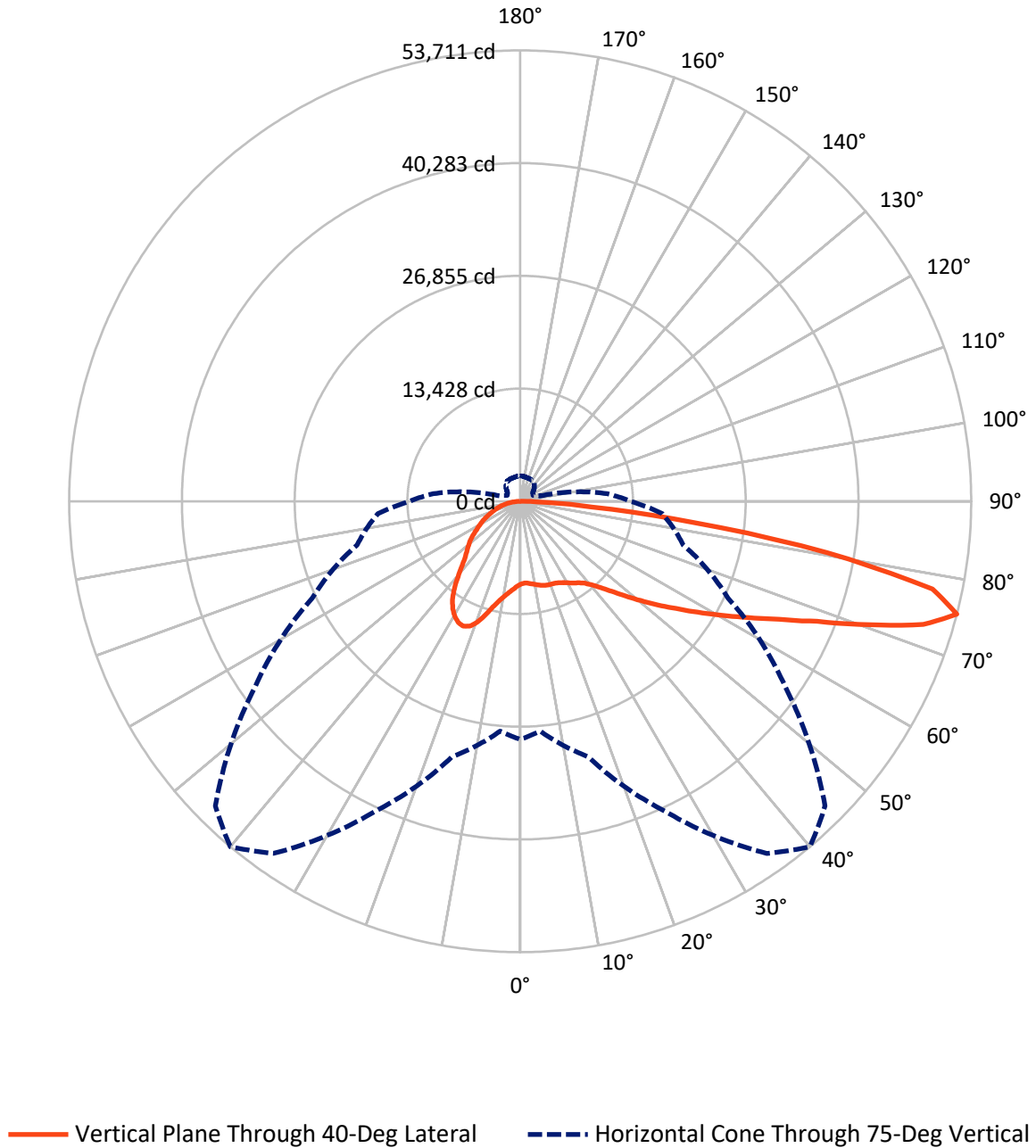
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26737.1	0.0	26737.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	59557.9	0.0	59557.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	86295.0	0.0	86295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.0	1.1
10°-20°	3307.1	3.8
20°-30°	6038.5	7.0
30°-40°	8564.3	9.9
40°-50°	11564.4	13.4
50°-60°	15557.2	18.0
60°-70°	19745.7	22.9
70°-80°	17920.4	20.8
80°-90°	2612.2	3.0
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°	86295.0	100.0
0°-180°	86295.0	100.0

Coefficient of Utilization

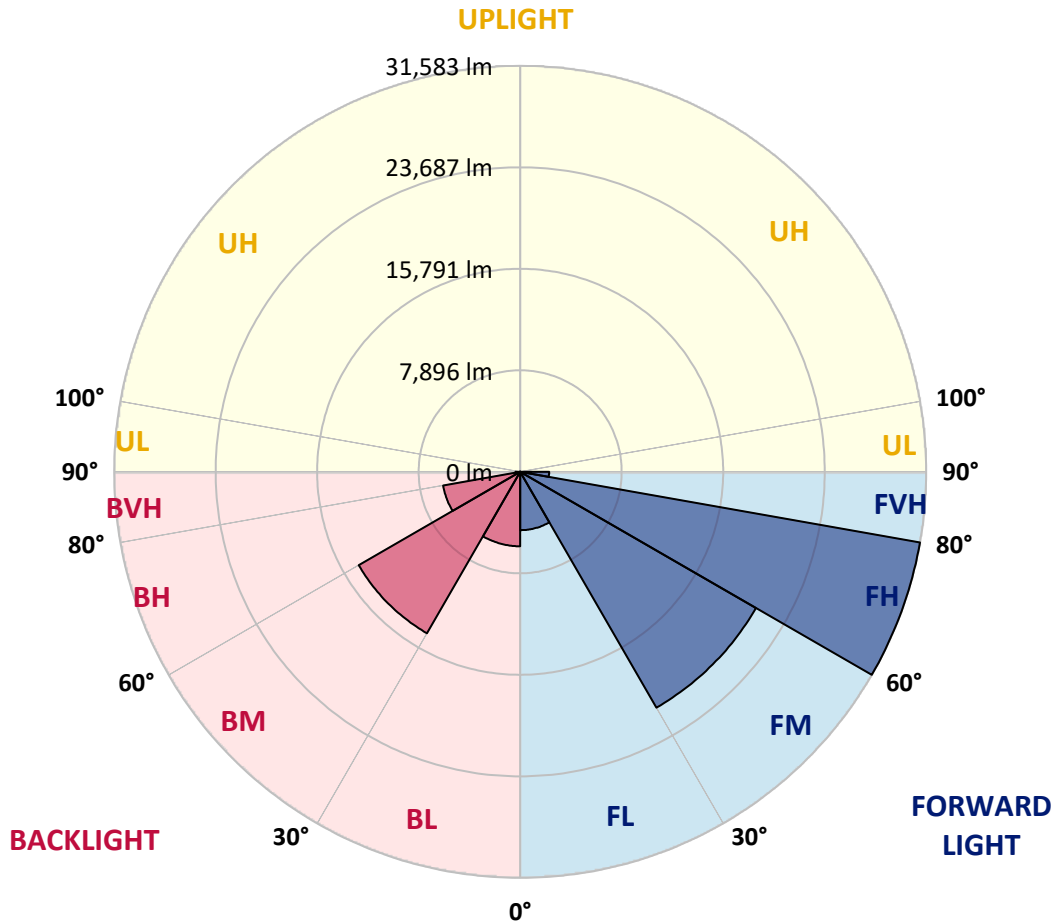


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4539.2	5.3			
FM (30°-60°)	21183.5	24.5			
FH (60°-80°)	31582.6	36.6			G5
FVH (80°-90°)	2252.6	2.6			G5
BL (0°-30°)	5791.5	6.7	B5		
BM (30°-60°)	14502.5	16.8	B5		
BH (60°-80°)	6083.5	7.0	B5		G5
BVH (80°-90°)	359.6	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9
2.5°	9716.9	9771.8	9758.1	9739.8	9739.8	9744.4	9739.8	9771.8	9803.9	9835.9
5°	9817.6	9872.5	9845.1	9822.2	9803.9	9799.3	9785.6	9781.0	9799.3	9840.5
7.5°	10014.4	10069.3	10028.1	9986.9	9950.3	9932.0	9913.7	9886.3	9872.5	9895.4
10°	10234.1	10289.0	10238.7	10165.5	10106.0	10083.1	10064.8	10037.3	10019.0	10032.7
12.5°	10453.8	10508.7	10440.1	10339.4	10261.6	10247.8	10225.0	10215.8	10211.2	10206.6
15°	10659.8	10705.5	10618.6	10499.6	10417.2	10394.3	10371.4	10385.1	10408.0	10435.5
17.5°	10820.0	10865.7	10737.6	10582.0	10504.1	10495.0	10481.3	10527.0	10591.1	10659.8
20°	10966.4	11012.2	10847.4	10636.9	10545.3	10545.3	10549.9	10646.0	10737.6	10838.3
22.5°	11172.4	11209.0	11007.6	10719.3	10586.5	10595.7	10632.3	10728.4	10842.8	10980.2
25°	11479.0	11506.5	11259.3	10874.9	10723.8	10751.3	10783.3	10829.1	10939.0	11099.2
27.5°	11973.4	11996.2	11671.3	11149.5	10920.7	10966.4	11012.2	10980.2	11030.5	11167.8
30°	12669.1	12682.8	12270.9	11579.7	11254.8	11277.7	11286.8	11154.1	11058.0	11167.8
32.5°	13492.9	13488.3	12998.6	12101.5	11634.7	11611.8	11534.0	11273.1	11048.8	11144.9
35°	14769.9	14719.5	14087.9	12833.8	12064.9	11923.0	11739.9	11405.8	11094.6	11122.0
37.5°	16884.4	16728.8	15854.6	14033.0	12705.7	12344.1	12074.0	11620.9	11195.3	11112.9
40°	19269.0	19072.2	18111.1	15676.1	13666.8	13085.6	12650.7	11927.6	11360.0	11154.1
42.5°	22097.6	21818.4	20784.0	17612.2	14884.3	14042.1	13387.6	12316.6	11602.6	11286.8
45°	25571.5	25200.8	23736.2	19795.4	16417.6	15296.2	14422.0	12907.1	11973.4	11543.1
47.5°	29082.1	29173.6	27091.1	22294.4	18257.5	16843.3	15717.3	13795.0	12513.4	11955.0
50°	32812.3	32876.4	30427.7	25063.5	20344.6	18591.7	17172.8	14788.2	13264.1	12540.9
52.5°	35723.3	35732.4	33457.7	27960.7	22518.7	20514.0	18742.7	15923.3	14133.7	13319.0
55°	37544.9	37522.0	35581.4	30702.3	25017.7	22532.4	20481.9	17214.0	15195.5	14234.4
57.5°	38867.6	38799.0	37046.0	33059.5	27681.5	24917.0	22450.0	18678.6	16449.6	15323.7
60°	39371.1	39329.9	38039.2	35096.2	30482.6	27553.4	24720.2	20317.2	17873.1	16609.8
62.5°	39563.3	39641.1	39014.1	37068.9	33480.5	30473.5	27214.7	22276.1	19475.0	18065.3
65°	40240.7	40382.6	40254.5	39650.3	36867.5	33892.5	30523.8	24605.8	21223.4	19626.0
67.5°	41581.8	41723.7	41778.6	42739.7	41005.1	38153.6	34652.2	27507.6	23269.3	21246.3
70°	41549.7	41508.5	42478.9	45197.6	46186.2	44053.3	40217.8	31077.6	25708.8	22591.9
72.5°	37819.5	37490.0	39783.0	45170.1	50497.7	50213.9	47014.6	35682.1	27814.2	22756.7
75°	28372.6	27493.9	31544.5	40707.6	51216.3	53710.7	51335.3	38538.1	27315.4	20106.6
77.5°	12133.5	11250.2	16024.0	30134.8	45838.4	50209.4	47371.6	33622.4	21804.7	13296.1
80°	3176.4	3171.8	4842.4	13662.3	31173.7	37078.0	32528.5	21713.1	12458.5	4750.9
82.5°	1313.6	1281.6	1780.4	5313.9	15232.2	20806.9	16980.6	9684.9	4499.2	1286.1
85°	489.7	485.2	865.0	1835.4	5373.4	8581.8	6210.9	2476.1	1121.4	627.0
87.5°	137.3	132.7	187.7	636.2	1309.0	1986.4	1061.9	407.4	315.8	247.2
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°
9867.9	0°	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9	9867.9
9886.3	2.5°	9900.0	9922.9	9964.1	9996.1	10037.3	10083.1	10147.1	10188.3	10229.5	10257.0
9909.1	5°	9941.2	9991.5	10096.8	10202.1	10325.6	10440.1	10572.8	10668.9	10746.7	10769.6
9991.5	7.5°	10032.7	10115.1	10293.6	10472.1	10668.9	10856.6	11048.8	11213.6	11346.3	11396.7
10138.0	10°	10192.9	10302.8	10554.5	10806.2	11067.1	11355.5	11602.6	11840.6	12028.3	12106.1
10311.9	12.5°	10394.3	10531.6	10861.2	11209.0	11570.6	11968.8	12289.2	12582.1	12815.5	12920.8
10554.5	15°	10655.2	10833.7	11254.8	11721.6	12252.5	12806.4	13213.7	13538.7	13799.6	13927.7
10806.2	17.5°	10939.0	11177.0	11707.9	12412.7	13172.5	13900.3	14376.3	14614.3	14884.3	15007.9
11039.7	20°	11213.6	11506.5	12266.3	13291.5	14303.0	15076.5	15461.0	15525.1	15543.4	15557.1
11259.3	22.5°	11497.3	11891.0	12966.6	14399.1	15483.9	16019.4	16074.3	15799.7	15415.2	15236.7
11474.5	25°	11808.6	12330.4	13882.0	15621.2	16500.0	16564.1	16143.0	15474.7	14747.0	14412.9
11648.4	27.5°	12110.7	12838.4	14980.4	16788.3	17232.3	16669.3	15763.1	14815.7	13936.9	13584.4
11772.0	30°	12412.7	13419.7	16193.3	17809.0	17566.4	16408.4	15163.5	14106.2	13222.9	12852.1
11881.8	32.5°	12719.4	14097.1	17589.3	18545.9	17506.9	15854.6	14417.5	13309.8	12531.7	12142.7
11977.9	35°	13067.3	14930.1	18912.0	18948.7	17108.7	15039.9	13433.4	12357.8	11680.4	11369.2
12092.4	37.5°	13520.4	15987.4	20079.2	19049.4	16413.0	13845.3	12211.4	11231.9	10673.5	10531.6
12261.7	40°	14083.3	17259.8	20971.7	18889.2	15383.2	12394.4	10874.9	10092.2	9776.4	9808.4
12490.6	42.5°	14815.7	18683.2	21598.7	18477.2	13950.6	10897.8	9703.2	9355.3	9506.4	9634.5
12833.8	45°	15767.7	20161.6	21987.8	17777.0	12330.4	9629.9	9012.1	9094.4	9208.9	9222.6
13387.6	47.5°	16985.1	21658.2	22244.1	16719.7	10678.1	8737.4	8572.7	8591.0	8568.1	8472.0
14216.1	50°	18504.7	23113.7	22472.9	15319.1	9272.9	8179.0	7959.4	7895.3	7579.5	7268.2
15319.1	52.5°	20234.8	24450.2	22569.0	13579.9	8179.0	7712.2	7355.2	6952.4	6362.0	6265.9
16705.9	55°	22157.1	25686.0	22321.9	11442.4	7259.1	7112.6	6572.5	6087.4	6023.3	5940.9
18532.2	57.5°	24454.8	27017.9	21818.4	9057.8	6316.2	6412.3	5886.0	5940.9	5826.5	5698.3
20880.1	60°	26967.5	28395.5	20935.1	6883.8	5341.3	5538.1	5707.5	5702.9	5670.9	5565.6
23356.3	62.5°	29228.5	29301.8	19195.8	5272.7	4485.4	4860.7	5323.0	5318.4	5291.0	5231.5
25942.3	65°	30574.2	29164.5	16294.0	4151.3	3780.6	4302.4	4801.2	4837.9	4842.4	4837.9
27887.5	67.5°	30336.2	27557.9	12312.1	3304.6	3199.3	3734.8	4284.0	4334.4	4371.0	4380.2
28134.6	70°	27644.9	24029.1	8028.0	2636.3	2682.1	3235.9	3794.3	3844.7	3876.7	3913.3
24413.6	72.5°	21548.4	17667.1	4595.3	2132.9	2229.0	2805.7	3309.1	3368.7	3387.0	3455.6
16989.7	75°	13131.3	10389.7	2480.7	1679.7	1830.8	2398.3	2828.6	2897.2	2929.3	3011.6
8343.8	77.5°	6243.0	4499.2	1414.3	1309.0	1473.8	1958.9	2389.2	2467.0	2380.0	2425.8
2302.2	80°	2110.0	1670.6	892.5	997.8	1125.9	1528.7	1913.2	1991.0	1807.9	1798.7
764.4	82.5°	736.9	677.4	567.5	663.7	727.7	1093.9	1446.3	1547.0	1345.6	1341.1
343.3	85°	288.3	274.6	315.8	361.6	434.8	672.8	952.0	1002.4	828.4	668.2
100.7	87.5°	59.5	64.1	77.8	82.4	132.7	233.4	343.3	421.1	334.1	283.8
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°
9867.9
10238.7
10778.8
11401.2
12110.7
12920.8
13918.6
15003.3
15593.7
15287.1
14463.2
13625.6
12893.3
12193.0
11437.8
10632.3
9918.3
9753.5
9314.1
8545.2
7309.4
6297.9
5954.6
5675.4
5529.0
5208.6
4837.9
4389.3
3931.6
3483.1
3020.8
2389.2
1780.4
1277.0
659.1
260.9
0.0

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