

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: P957428

Luminaire Tested: **GALN-SB9D-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

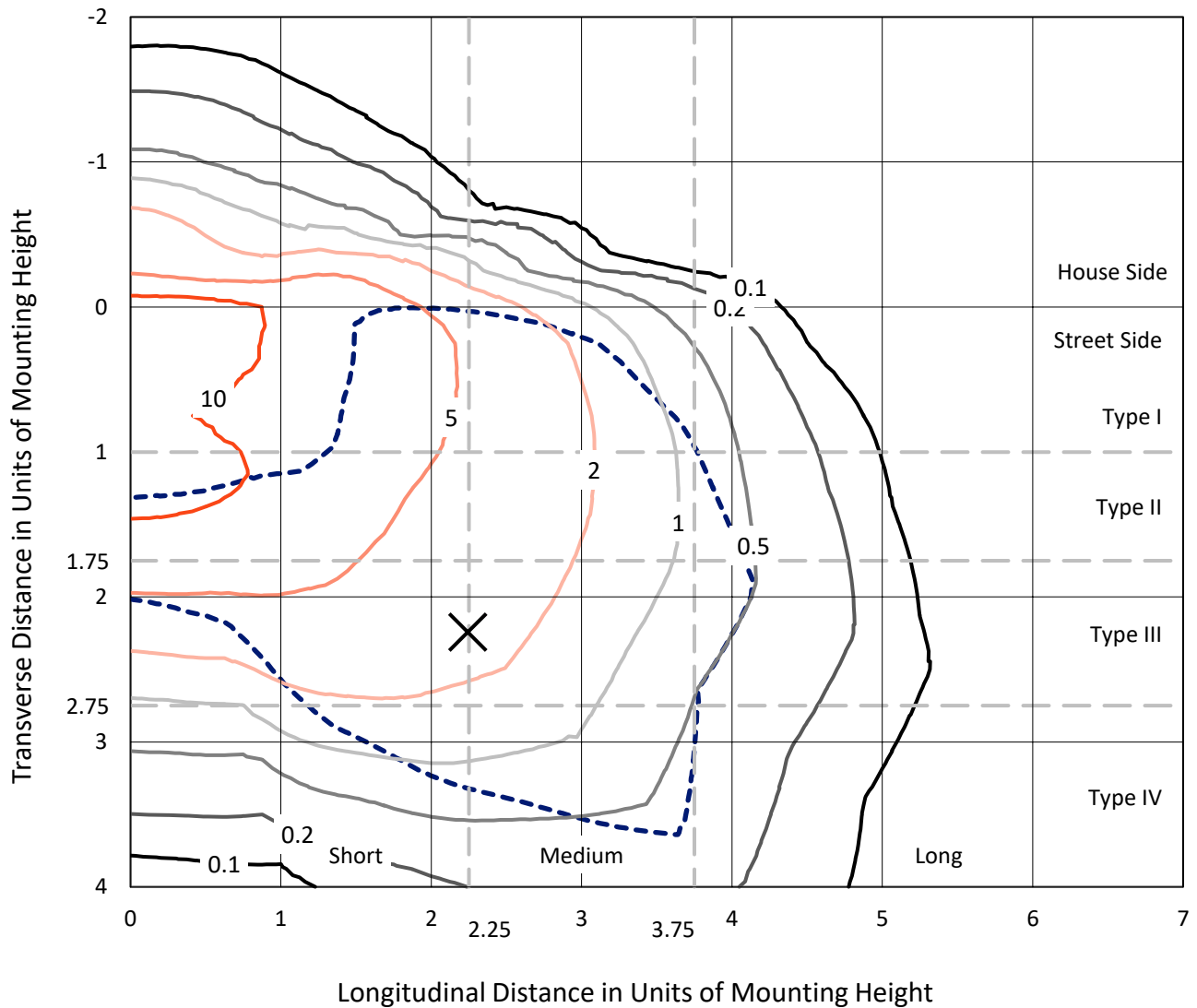
Lumens per Lamp: N/A  
Luminaire Lumens: 75535 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

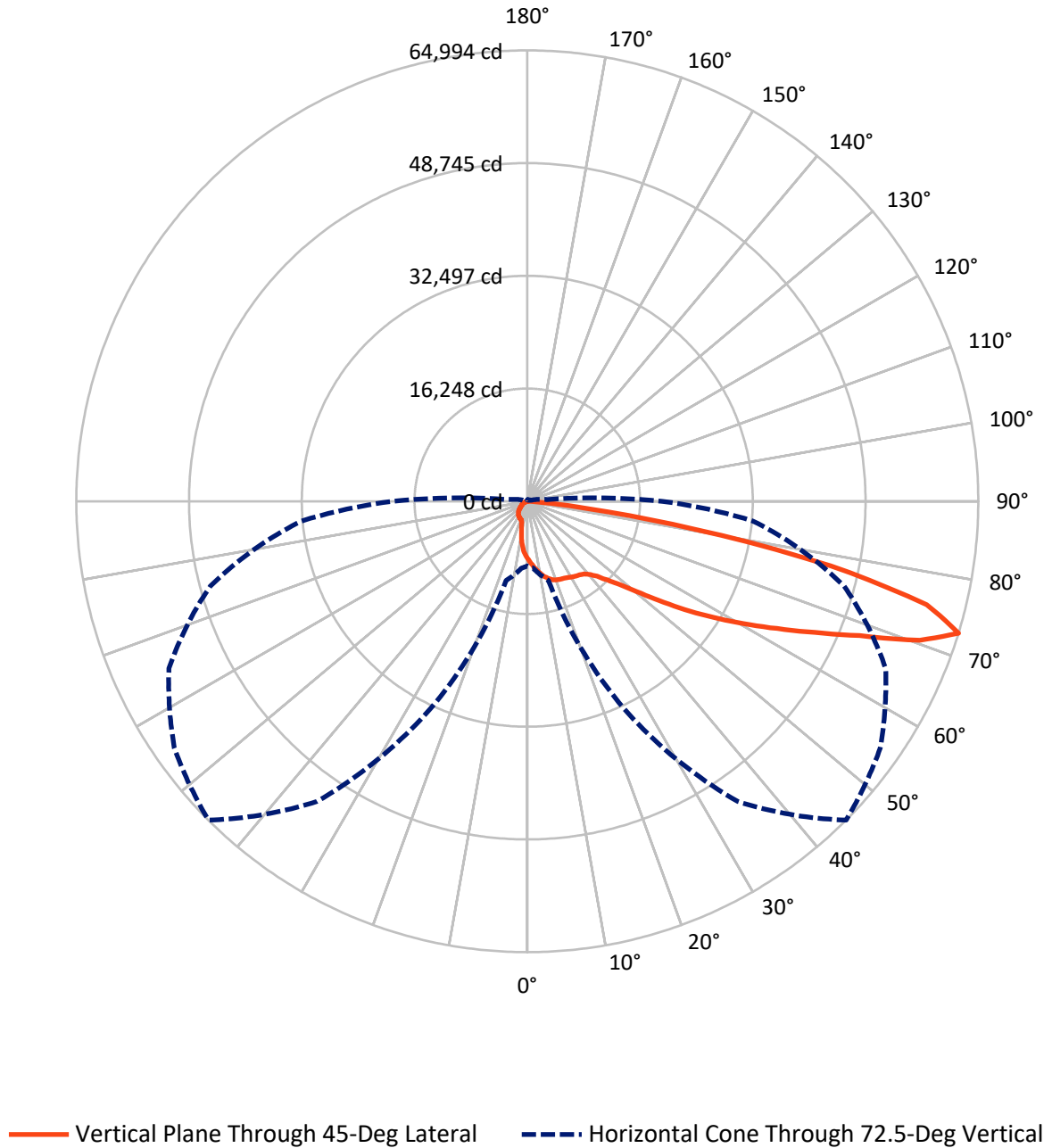
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7936.6	0.0	7936.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	67598.4	0.0	67598.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	75535.0	0.0	75535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	779.7	1.0
10°-20°	2278.7	3.0
20°-30°	3741.9	5.0
30°-40°	5306.9	7.0
40°-50°	8771.8	11.6
50°-60°	15757.5	20.9
60°-70°	21880.1	29.0
70°-80°	15871.1	21.0
80°-90°	1147.4	1.5
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°	75535.0	100.0
0°-180°	75535.0	100.0

**Coefficient of Utilization**



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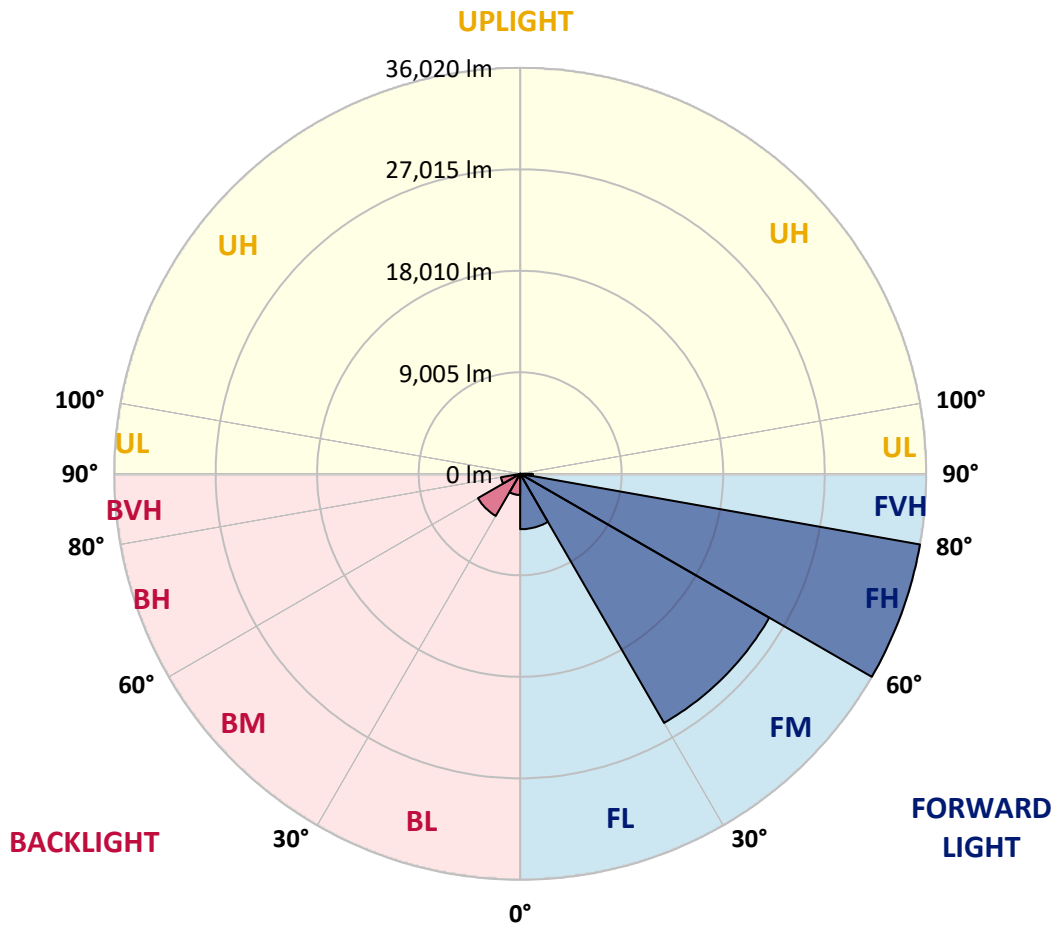
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4920.4	6.5			
FM (30°-60°)	25519.7	33.8			
FH (60°-80°)	36020.5	47.7			G5
FVH (80°-90°)	1137.8	1.5			G5
BL (0°-30°)	1879.9	2.5	B3/2500		
BM (30°-60°)	4316.4	5.7	B3/5000		
BH (60°-80°)	1730.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0
2.5°	9038.1	9053.5	9043.2	8981.4	8878.2	8821.5	8790.6	8687.5	8620.5	8501.9
5°	9868.2	9930.0	9893.9	9770.2	9574.3	9435.1	9393.8	9182.4	8991.7	8770.0
7.5°	10749.8	10780.7	10713.7	10553.9	10290.9	10053.8	10017.7	9723.8	9419.6	9079.3
10°	11512.8	11548.9	11445.8	11213.8	10914.8	10620.9	10569.3	10244.5	9883.6	9466.0
12.5°	12152.2	12188.3	12054.2	11775.8	11445.8	11141.6	11090.1	10749.8	10352.8	9888.8
15°	12636.8	12703.8	12523.4	12224.3	11868.6	11564.4	11538.6	11203.5	10816.8	10301.2
17.5°	12920.4	12987.4	12817.3	12456.4	12152.2	11894.4	11863.4	11585.0	11224.1	10729.2
20°	12966.8	13028.6	12848.2	12533.7	12281.1	12074.8	12059.4	11858.3	11595.3	11121.0
22.5°	12827.6	12904.9	12739.9	12487.3	12312.0	12203.7	12183.1	12069.7	11920.2	11518.0
25°	12683.2	12745.1	12621.3	12399.6	12306.8	12296.5	12312.0	12291.4	12260.4	11920.2
27.5°	12672.9	12739.9	12600.7	12389.3	12337.8	12446.0	12461.5	12559.5	12585.2	12286.2
30°	12760.5	12806.9	12672.9	12451.2	12425.4	12672.9	12678.1	12853.3	12894.6	12595.6
32.5°	12951.3	13002.9	12868.8	12544.0	12507.9	12853.3	12868.8	13100.8	13167.9	12925.5
35°	13399.9	13461.7	13307.1	12801.8	12672.9	13023.5	13069.9	13343.1	13477.2	13276.1
37.5°	14518.7	14338.2	14126.8	13322.5	13049.3	13291.6	13368.9	13688.6	13925.8	13693.7
40°	17297.6	16730.5	16070.6	14209.3	13709.2	13863.9	13925.8	14245.4	14570.2	14343.4
42.5°	21468.6	20798.4	19736.3	16251.0	14704.3	14781.6	14828.0	15106.4	15565.3	15384.8
45°	25186.0	24943.6	23860.9	19736.3	16565.5	16184.0	16240.7	16385.1	17060.5	16993.4
47.5°	28042.3	27903.1	27067.8	23737.2	19710.5	17900.9	18060.7	18127.7	19102.1	19339.3
50°	30238.6	30187.1	29439.5	27294.7	23819.7	20432.3	20489.1	20344.7	21803.8	22391.5
52.5°	32311.2	32486.5	31934.9	30599.5	28207.2	23747.5	23737.2	23056.6	25026.1	25912.9
55°	34182.8	34244.7	34301.4	33971.4	32620.6	27521.5	27423.6	26309.9	28764.1	29681.8
57.5°	35940.9	35966.7	36472.0	37147.4	37214.4	31574.0	31393.5	30058.2	32847.4	33502.2
60°	37121.6	37240.2	38307.4	40184.1	41003.9	35755.3	35657.3	34296.2	37003.0	37307.2
62.5°	35420.2	36142.0	38833.3	42555.8	44582.0	40390.3	40343.9	39065.3	41375.1	41127.6
65°	28671.3	29893.2	34626.2	44159.2	48093.1	45566.7	45633.8	44272.6	45865.8	45061.5
67.5°	20056.0	21344.9	26944.1	44288.1	52016.6	51645.4	52032.1	49897.6	50634.9	48830.4
70°	13869.0	14534.1	18179.3	41514.3	55074.0	60018.4	60008.1	56806.3	55378.2	50547.2
72.5°	9326.8	9672.2	11806.7	32935.1	52826.1	64993.7	64694.7	62085.9	56976.5	47273.3
75°	3933.9	4186.5	5465.1	18509.2	41792.7	59461.6	58652.1	54867.8	50624.6	37224.7
77.5°	1247.7	1356.0	2155.1	6625.2	23020.5	44695.4	43839.6	34265.3	33930.2	18674.2
80°	592.9	690.9	1211.6	2660.4	9058.7	24309.5	24190.9	15544.7	14596.0	5042.3
82.5°	257.8	304.2	670.3	1423.0	4052.4	8672.0	8847.3	5289.8	4377.3	1912.8
85°	82.5	108.3	309.3	654.8	1711.7	2155.1	2129.3	1258.0	1763.3	1041.5
87.5°	0.0	0.0	103.1	149.5	175.3	123.7	139.2	108.3	489.8	288.7
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°
8275.0	0°	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0
8378.1	2.5°	8316.3	8233.8	8089.4	7955.4	7836.8	7718.2	7646.0	7542.9	7532.6	7532.6
8512.2	5°	8373.0	8238.9	7981.1	7707.9	7393.4	7094.3	6795.3	6506.6	6413.8	6346.8
8728.7	7.5°	8538.0	8326.6	7919.3	7398.5	6800.5	6145.7	5686.8	5191.9	5001.1	4898.0
9017.5	10°	8775.1	8486.4	7867.7	6955.1	5985.9	5093.9	4439.1	3902.9	3696.7	3609.0
9332.0	12.5°	9038.1	8682.3	7774.9	6403.5	5093.9	4026.7	3387.3	3139.9	3108.9	3108.9
9708.3	15°	9352.6	8919.5	7615.1	5753.8	4160.7	3186.3	2959.4	2969.7	3000.7	3021.3
10074.4	17.5°	9677.4	9172.1	7362.4	5026.9	3335.8	2866.6	2871.8	2887.2	2913.0	2933.6
10471.4	20°	10028.0	9424.8	7027.3	4253.5	2861.5	2773.8	2789.3	2804.7	2825.4	2835.7
10842.6	22.5°	10404.4	9661.9	6630.3	3495.6	2701.6	2696.5	2701.6	2717.1	2742.9	2742.9
11275.7	25°	10806.5	9924.9	6176.6	2943.9	2619.1	2619.1	2629.4	2639.8	2660.4	2660.4
11693.3	27.5°	11219.0	10167.2	5697.1	2655.2	2547.0	2541.8	2541.8	2557.3	2567.6	2572.7
12105.8	30°	11672.7	10450.8	5217.6	2593.4	2490.2	2464.5	2449.0	2459.3	2469.6	2474.8
12538.8	32.5°	12136.7	10724.0	4789.7	2619.1	2433.5	2387.1	2335.6	2325.3	2325.3	2345.9
12987.4	35°	12652.3	11023.0	4459.7	2706.8	2402.6	2273.7	2191.2	2144.8	2150.0	2180.9
13523.6	37.5°	13271.0	11384.0	4217.4	2784.1	2382.0	2144.8	2010.8	1954.0	1917.9	1954.0
14260.9	40°	14080.4	11915.0	4042.1	2846.0	2356.2	1995.3	1814.8	1722.0	1655.0	1675.6
15405.5	42.5°	15271.4	12750.2	3975.1	2851.1	2299.5	1820.0	1613.8	1490.0	1392.1	1397.2
17127.5	45°	16941.9	14070.1	4320.5	2784.1	2175.7	1629.2	1402.4	1237.4	1175.5	1160.0
19700.2	47.5°	19231.0	15993.2	5119.7	2644.9	1995.3	1443.6	1196.1	1056.9	1010.5	984.8
23077.3	50°	22298.7	18462.8	6006.5	2490.2	1814.8	1268.3	1026.0	938.4	907.4	881.6
27083.3	52.5°	25856.2	20968.5	6733.4	2335.6	1634.4	1113.6	917.7	866.2	840.4	819.8
30950.1	55°	29119.8	22695.7	6692.2	2170.6	1459.1	989.9	840.4	809.5	778.5	757.9
34280.8	57.5°	31151.2	22938.0	5516.7	1990.1	1258.0	891.9	768.2	747.6	711.5	685.7
37162.8	60°	32084.4	21556.3	3866.8	1753.0	1056.9	799.1	690.9	680.6	634.2	598.1
39890.2	62.5°	32254.5	18988.7	2577.9	1459.1	881.6	711.5	613.5	598.1	536.2	474.3
42107.2	65°	31563.7	15317.8	1783.9	1139.4	752.7	618.7	525.9	495.0	427.9	366.1
42633.1	67.5°	29377.6	10754.9	1242.5	819.8	639.3	489.8	417.6	407.3	355.7	304.2
39952.1	70°	25371.6	6130.2	830.1	613.5	505.3	335.1	330.0	340.3	288.7	247.5
32641.2	72.5°	19452.7	2804.7	515.6	448.6	345.4	226.9	262.9	268.1	221.7	185.6
20365.3	75°	11451.0	1201.3	324.8	288.7	175.3	149.5	190.8	195.9	149.5	118.6
7444.9	77.5°	3897.8	453.7	206.2	170.1	87.6	82.5	123.7	123.7	82.5	46.4
1495.2	80°	886.8	170.1	103.1	67.0	41.2	36.1	41.2	36.1	20.6	5.2
458.9	82.5°	252.6	67.0	41.2	25.8	15.5	15.5	5.2	0.0	0.0	0.0
159.8	85°	72.2	30.9	10.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0
56.7	87.5°	30.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
8275.0
7558.4
6377.7
4913.5
3609.0
3108.9
3021.3
2933.6
2840.8
2753.2
2665.5
2577.9
2485.1
2361.3
2196.4
1943.7
1665.3
1376.6
1139.4
969.3
876.5
814.6
747.6
680.6
587.8
443.4
345.4
288.7
226.9
165.0
103.1
36.1
0.0
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