

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: P957554

Luminaire Tested: **GALN-SB9D-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957554  
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-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

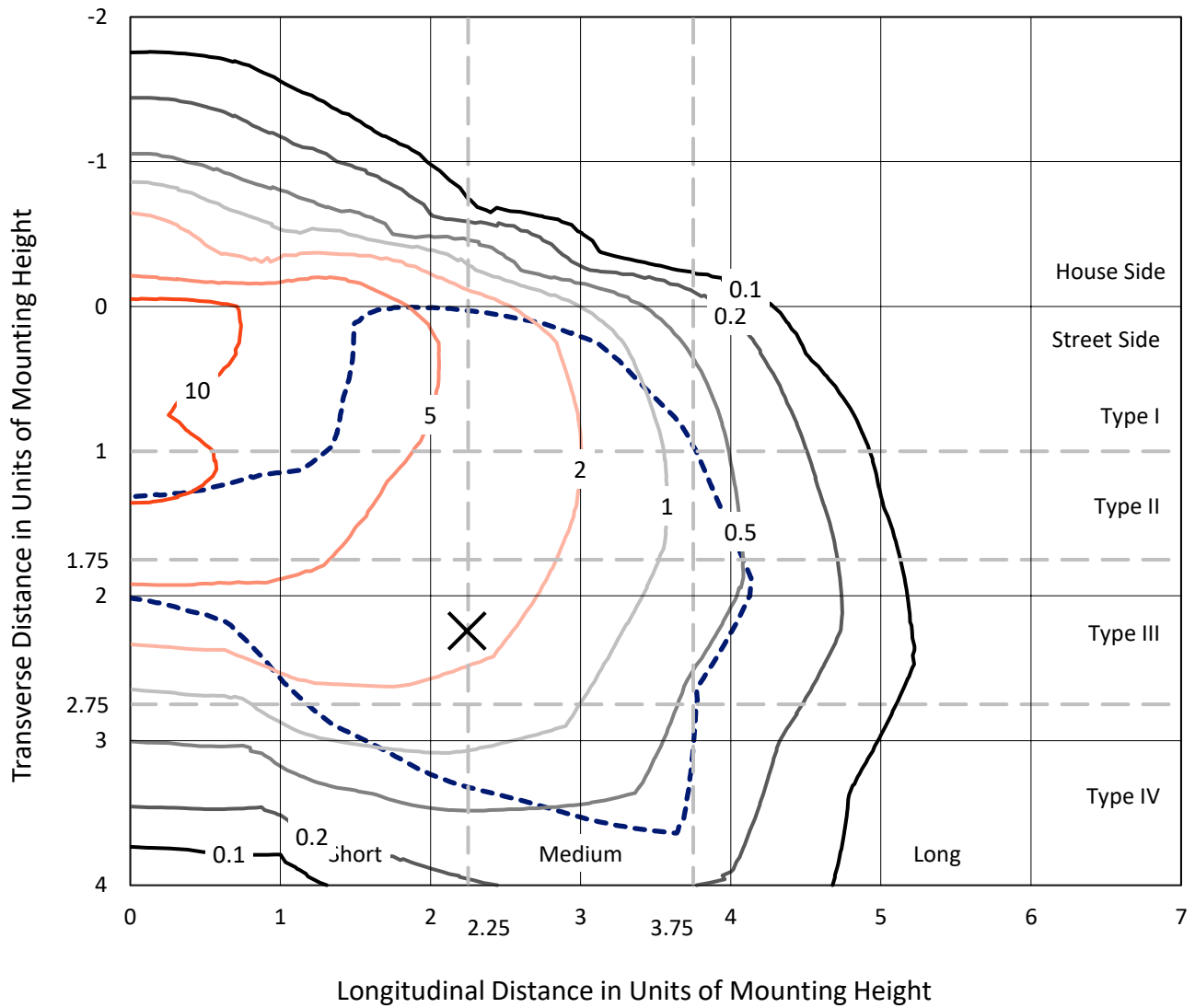
Lumens per Lamp: N/A  
Luminaire Lumens: 68292 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

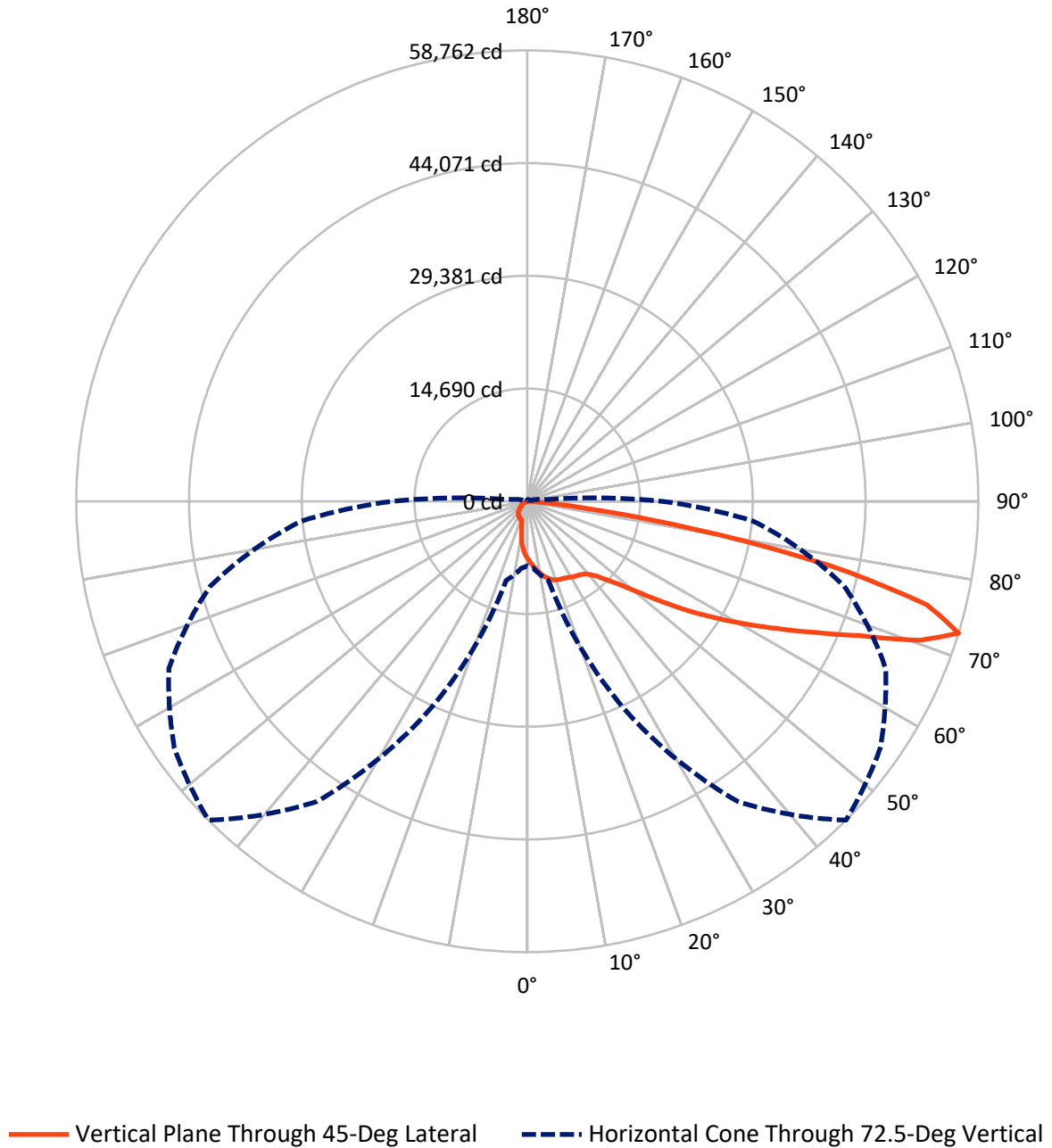
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	7175.6	0.0	7175.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	61116.4	0.0	61116.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	68292.0	0.0	68292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	704.9	1.0
10°-20°	2060.2	3.0
20°-30°	3383.1	5.0
30°-40°	4798.0	7.0
40°-50°	7930.6	11.6
50°-60°	14246.5	20.9
60°-70°	19782.0	29.0
70°-80°	14349.3	21.0
80°-90°	1037.4	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°	68292.0	100.0
0°-180°	68292.0	100.0

**Coefficient of Utilization**



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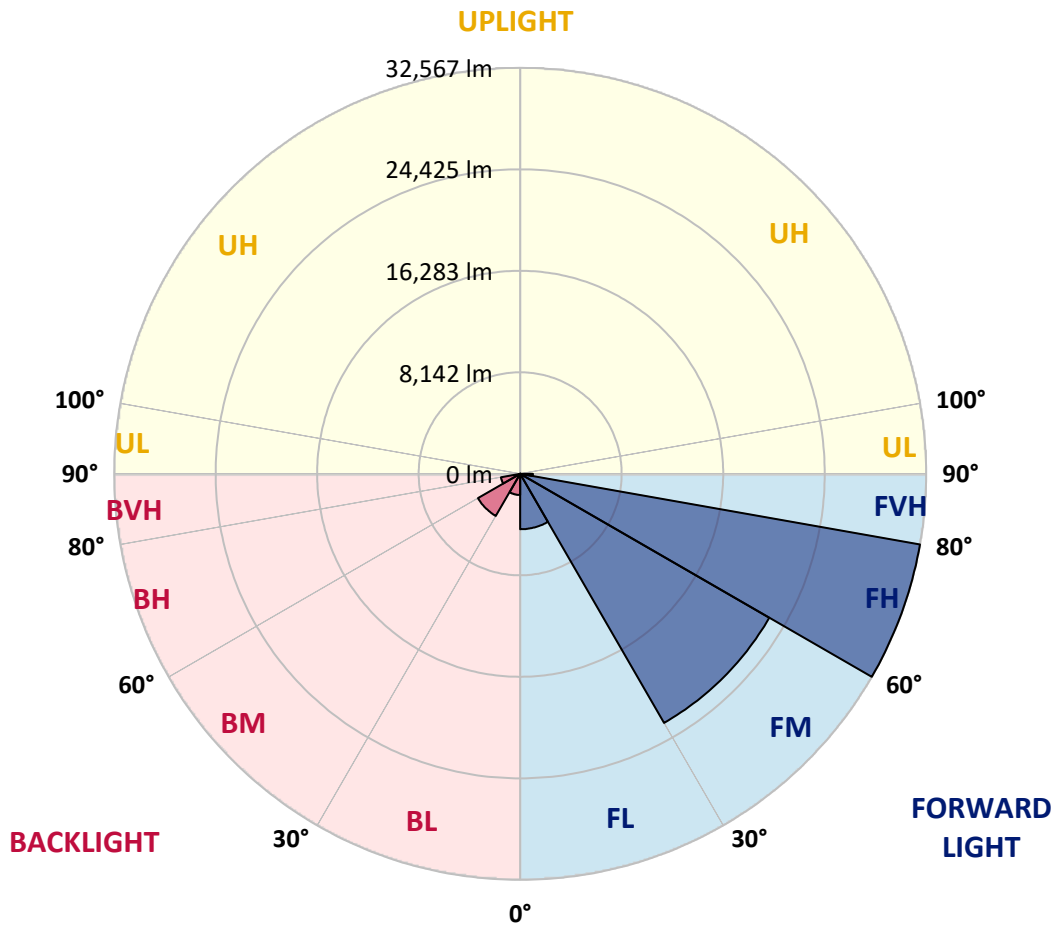
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4448.5	6.5			
FM (30°-60°)	23072.7	33.8			
FH (60°-80°)	32566.5	47.7			G5
FVH (80°-90°)	1028.7	1.5			G5
BL (0°-30°)	1699.6	2.5	B3/2500		
BM (30°-60°)	3902.5	5.7	B3/5000		
BH (60°-80°)	1564.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	8.7	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°	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5
2.5°	8171.4	8185.4	8176.1	8120.1	8026.9	7975.6	7947.7	7854.4	7793.8	7686.6
5°	8921.9	8977.8	8945.2	8833.3	8656.2	8530.3	8493.1	8301.9	8129.5	7929.0
7.5°	9719.0	9747.0	9686.4	9541.9	9304.1	9089.7	9057.1	8791.4	8516.4	8208.7
10°	10408.9	10441.5	10348.3	10138.5	9868.2	9602.5	9555.9	9262.2	8935.9	8558.3
12.5°	10986.9	11019.5	10898.3	10646.6	10348.3	10073.3	10026.7	9719.0	9360.1	8940.5
15°	11425.1	11485.7	11322.5	11052.2	10730.5	10455.5	10432.2	10129.2	9779.6	9313.5
17.5°	11681.4	11742.0	11588.2	11261.9	10986.9	10753.8	10725.9	10474.1	10147.9	9700.4
20°	11723.4	11779.3	11616.2	11331.8	11103.4	10917.0	10903.0	10721.2	10483.5	10054.6
22.5°	11597.5	11667.5	11518.3	11289.9	11131.4	11033.5	11014.9	10912.3	10777.1	10413.5
25°	11467.0	11523.0	11411.1	11210.6	11126.7	11117.4	11131.4	11112.8	11084.8	10777.1
27.5°	11457.7	11518.3	11392.4	11201.3	11154.7	11252.6	11266.6	11355.2	11378.5	11108.1
30°	11536.9	11578.9	11457.7	11257.3	11234.0	11457.7	11462.4	11620.8	11658.1	11387.8
32.5°	11709.4	11756.0	11634.8	11341.2	11308.5	11620.8	11634.8	11844.6	11905.2	11686.1
35°	12115.0	12170.9	12031.1	11574.2	11457.7	11774.7	11816.6	12063.7	12184.9	12003.1
37.5°	13126.5	12963.3	12772.2	12045.0	11798.0	12017.1	12087.0	12376.0	12590.4	12380.7
40°	15639.0	15126.2	14529.6	12846.8	12394.6	12534.5	12590.4	12879.4	13173.1	12968.0
42.5°	19410.0	18804.1	17843.8	14692.7	13294.3	13364.2	13406.2	13657.9	14072.7	13909.6
45°	22770.9	22551.8	21572.9	17843.8	14977.1	14632.1	14683.4	14813.9	15424.5	15363.9
47.5°	25353.3	25227.5	24472.3	21461.0	17820.5	16184.4	16328.9	16389.5	17270.5	17484.9
50°	27339.1	27292.4	26616.5	24677.4	21535.6	18473.1	18524.4	18393.9	19713.0	20244.4
52.5°	29212.9	29371.4	28872.7	27665.4	25502.5	21470.4	21461.0	20845.7	22626.4	23428.2
55°	30905.0	30961.0	31012.2	30713.9	29492.6	24882.5	24793.9	23787.1	26005.9	26835.6
57.5°	32494.6	32517.9	32974.7	33585.3	33645.9	28546.4	28383.2	27175.9	29697.7	30289.7
60°	33562.0	33669.2	34634.1	36330.9	37072.0	32326.8	32238.2	31007.6	33454.8	33729.8
62.5°	32023.8	32676.4	35109.6	38475.1	40307.1	36517.3	36475.4	35319.4	37407.7	37183.9
65°	25922.0	27026.7	31305.9	39924.8	43481.5	41197.4	41258.0	40027.4	41467.7	40740.6
67.5°	18132.8	19298.2	24360.4	40041.4	47028.8	46693.2	47042.8	45113.0	45779.5	44148.0
70°	12539.1	13140.5	16436.1	37533.5	49793.0	54263.3	54253.9	51359.2	50068.0	45700.3
72.5°	8432.5	8744.8	10674.6	29777.0	47760.6	58761.5	58491.1	56132.5	51513.0	42740.3
75°	3556.6	3785.1	4941.1	16734.4	37785.2	53759.8	53028.0	49606.5	45770.2	33655.2
77.5°	1128.1	1225.9	1948.5	5989.9	20813.1	40409.6	39635.8	30979.6	30676.6	16883.6
80°	536.1	624.6	1095.4	2405.3	8190.1	21978.5	21871.3	14054.1	13196.4	4558.8
82.5°	233.1	275.0	606.0	1286.5	3663.9	7840.5	7998.9	4782.6	3957.5	1729.4
85°	74.6	97.9	279.7	592.0	1547.6	1948.5	1925.2	1137.4	1594.2	941.6
87.5°	0.0	0.0	93.2	135.2	158.5	111.9	125.9	97.9	442.8	261.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7481.5	0°	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5	7481.5
7574.8	2.5°	7518.8	7444.2	7313.7	7192.5	7085.3	6978.1	6912.8	6819.6	6810.3	6810.3
7696.0	5°	7570.1	7448.9	7215.8	6968.8	6684.4	6414.1	6143.7	5882.7	5798.8	5738.2
7891.7	7.5°	7719.3	7528.1	7159.9	6689.1	6148.4	5556.4	5141.5	4694.0	4521.6	4428.3
8152.8	10°	7933.7	7672.7	7113.3	6288.2	5411.9	4605.5	4013.5	3528.7	3342.2	3263.0
8437.1	12.5°	8171.4	7849.8	7029.4	5789.4	4605.5	3640.5	3062.5	2838.8	2810.8	2810.8
8777.4	15°	8455.8	8064.2	6884.9	5202.1	3761.7	2880.7	2675.6	2685.0	2712.9	2731.6
9108.4	17.5°	8749.4	8292.6	6656.5	4544.9	3015.9	2591.7	2596.4	2610.4	2633.7	2652.3
9467.3	20°	9066.4	8521.0	6353.5	3845.6	2587.1	2507.8	2521.8	2535.8	2554.4	2563.8
9802.9	22.5°	9406.7	8735.4	5994.5	3160.4	2442.6	2437.9	2442.6	2456.6	2479.9	2479.9
10194.5	25°	9770.3	8973.2	5584.3	2661.7	2368.0	2368.0	2377.3	2386.6	2405.3	2405.3
10572.0	27.5°	10143.2	9192.3	5150.8	2400.6	2302.7	2298.1	2298.1	2312.1	2321.4	2326.0
10944.9	30°	10553.4	9448.6	4717.3	2344.7	2251.5	2228.1	2214.2	2223.5	2232.8	2237.5
11336.5	32.5°	10972.9	9695.7	4330.4	2368.0	2200.2	2158.2	2111.6	2102.3	2102.3	2120.9
11742.0	35°	11439.1	9966.1	4032.1	2447.2	2172.2	2055.7	1981.1	1939.1	1943.8	1971.8
12226.8	37.5°	11998.4	10292.4	3813.0	2517.2	2153.6	1939.1	1817.9	1766.7	1734.0	1766.7
12893.4	40°	12730.3	10772.5	3654.5	2573.1	2130.3	1804.0	1640.8	1556.9	1496.3	1515.0
13928.2	42.5°	13807.0	11527.6	3593.9	2577.7	2079.0	1645.5	1459.0	1347.1	1258.6	1263.2
15485.1	45°	15317.3	12720.9	3906.2	2517.2	1967.1	1473.0	1267.9	1118.7	1062.8	1048.8
17811.2	47.5°	17387.0	14459.6	4628.8	2391.3	1804.0	1305.2	1081.4	955.6	913.6	890.3
20864.4	50°	20160.5	16692.4	5430.5	2251.5	1640.8	1146.7	927.6	848.4	820.4	797.1
24486.3	52.5°	23376.9	18957.9	6087.8	2111.6	1477.7	1006.9	829.7	783.1	759.8	741.2
27982.3	55°	26327.5	20519.4	6050.5	1962.4	1319.2	895.0	759.8	731.8	703.9	685.2
30993.6	57.5°	28164.1	20738.5	4987.7	1799.3	1137.4	806.4	694.5	675.9	643.3	620.0
33599.3	60°	29007.8	19489.3	3496.0	1584.9	955.6	722.5	624.6	615.3	573.4	540.7
36065.2	62.5°	29161.7	17167.9	2330.7	1319.2	797.1	643.3	554.7	540.7	484.8	428.8
38069.6	65°	28537.0	13849.0	1612.8	1030.2	680.6	559.4	475.5	447.5	386.9	331.0
38545.0	67.5°	26560.6	9723.7	1123.4	741.2	578.0	442.8	377.6	368.2	321.6	275.0
36121.1	70°	22938.7	5542.4	750.5	554.7	456.8	303.0	298.3	307.7	261.0	223.7
29511.3	72.5°	17587.4	2535.8	466.1	405.5	312.3	205.1	237.7	242.4	200.4	167.8
18412.5	75°	10353.0	1086.1	293.7	261.0	158.5	135.2	172.5	177.1	135.2	107.2
6731.0	77.5°	3524.0	410.2	186.5	153.8	79.2	74.6	111.9	111.9	74.6	42.0
1351.8	80°	801.8	153.8	93.2	60.6	37.3	32.6	37.3	32.6	18.6	4.7
414.9	82.5°	228.4	60.6	37.3	23.3	14.0	14.0	4.7	0.0	0.0	0.0
144.5	85°	65.3	28.0	9.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0
51.3	87.5°	28.0	4.7	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>
7481.5
6833.6
5766.1
4442.3
3263.0
2810.8
2731.6
2652.3
2568.4
2489.2
2409.9
2330.7
2246.8
2134.9
1985.8
1757.3
1505.6
1244.6
1030.2
876.3
792.4
736.5
675.9
615.3
531.4
400.9
312.3
261.0
205.1
149.2
93.2
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0.0
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