

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: P944706

Luminaire Tested: **GALN-SB9D-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

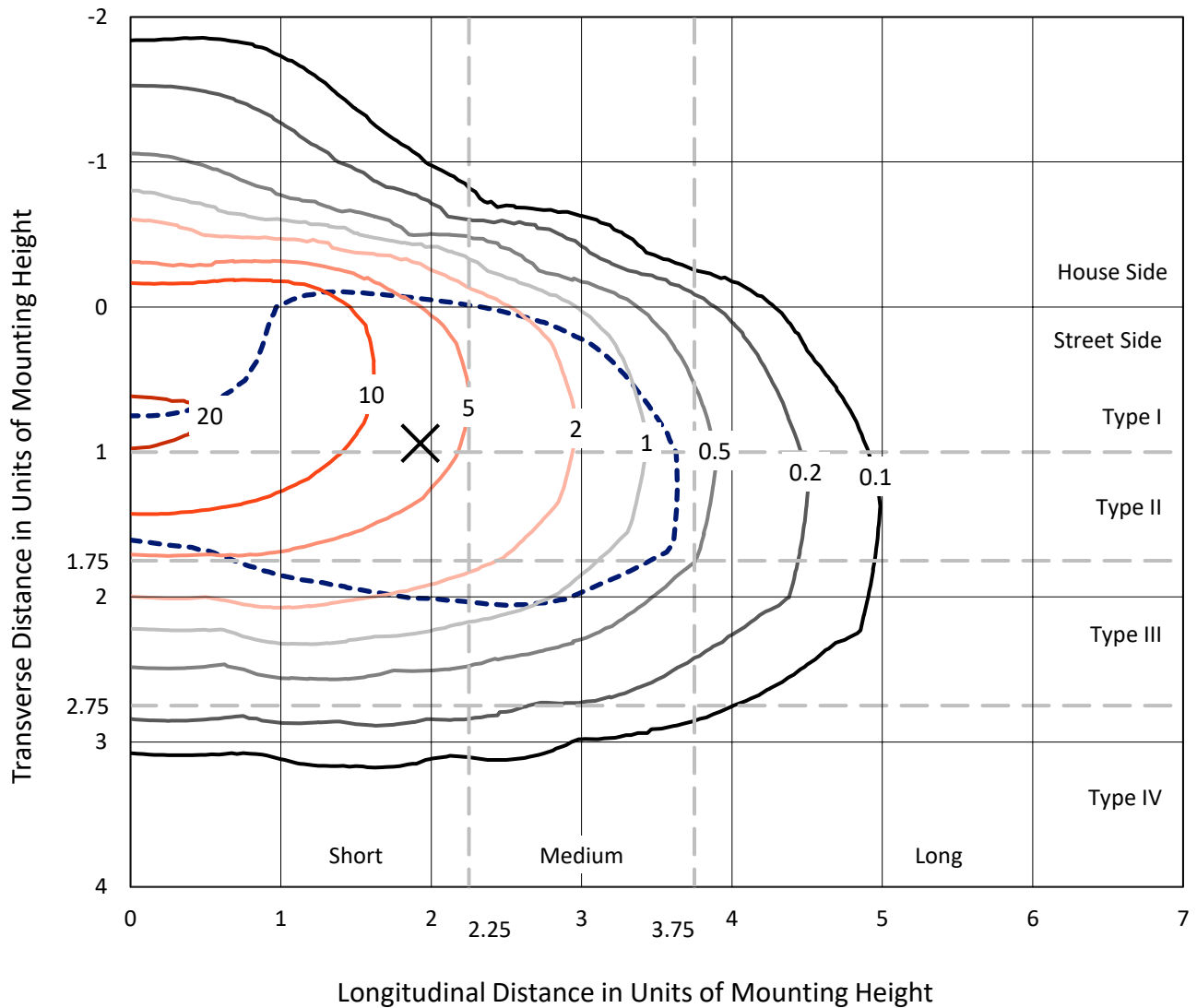
Lumens per Lamp: N/A  
Luminaire Lumens: 76906 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

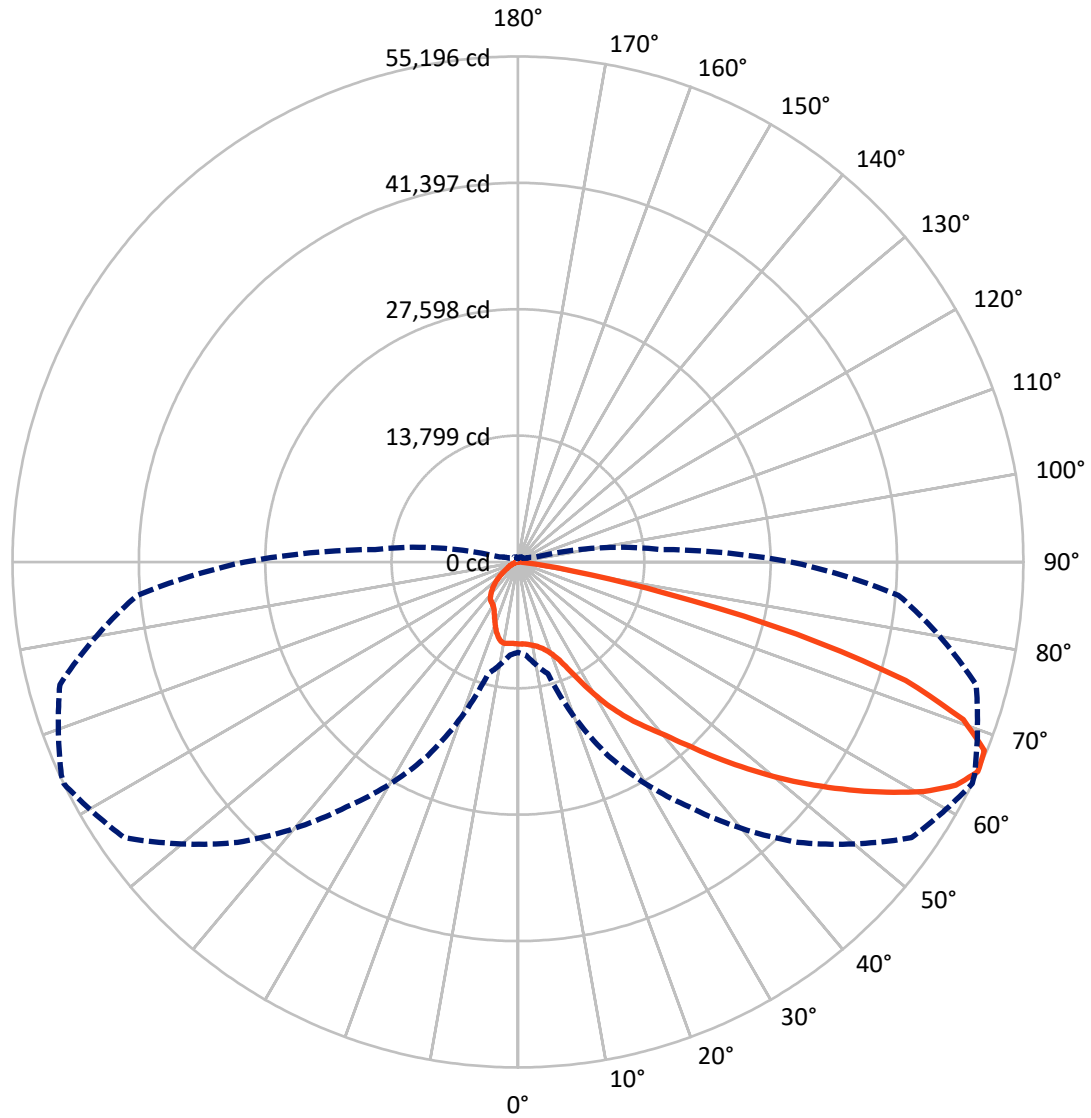
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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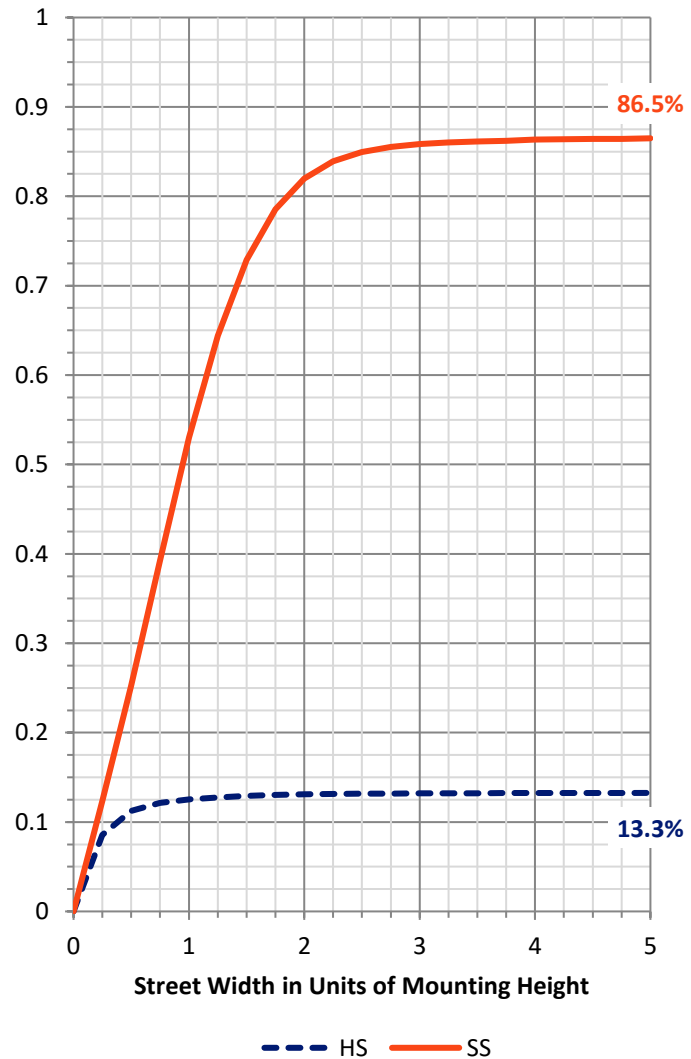
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10284.7	0.0	10284.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	66621.3	0.0	66621.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	76906.0	0.0	76906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.3	1.1
10°-20°	2238.4	2.9
20°-30°	4241.5	5.5
30°-40°	8582.8	11.2
40°-50°	14620.8	19.0
50°-60°	19883.2	25.9
60°-70°	18671.3	24.3
70°-80°	7480.5	9.7
80°-90°	362.4	0.5
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°	76906.0	100.0
0°-180°	76906.0	100.0

**Coefficient of Utilization**



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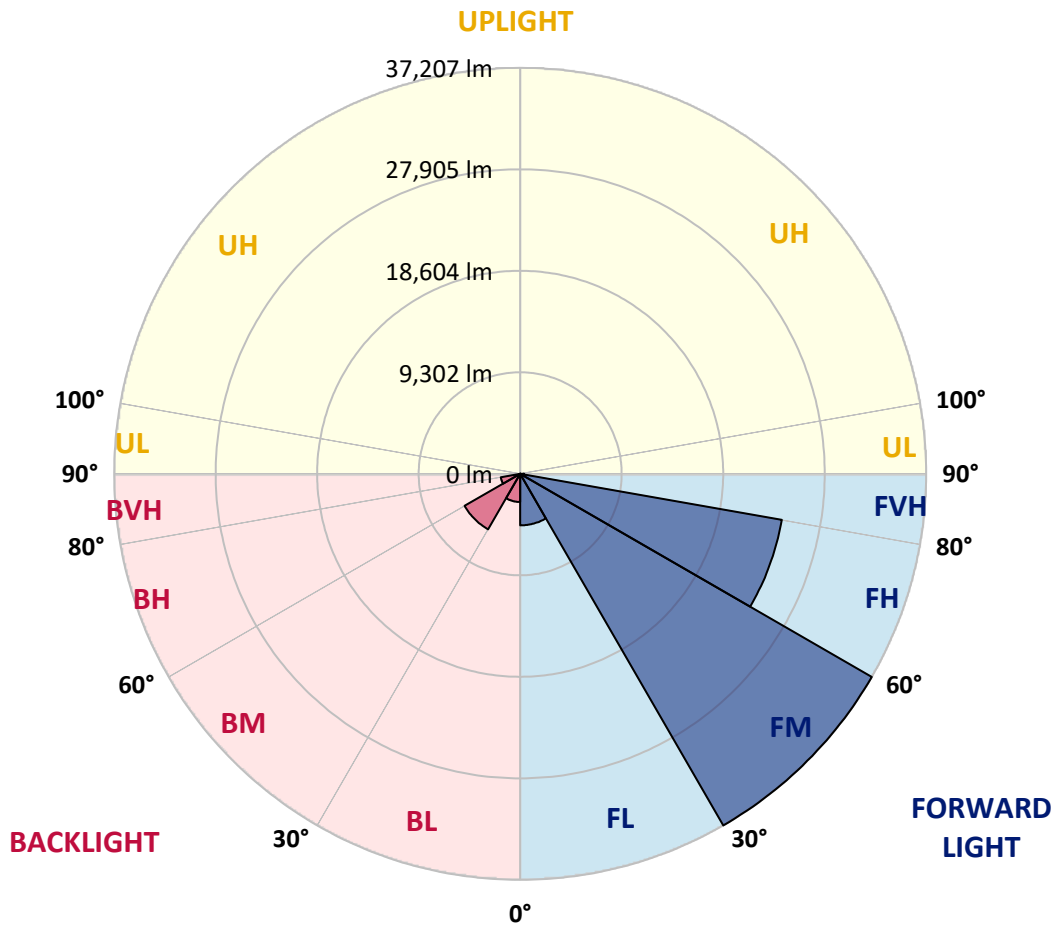
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4722.9	6.1			
FM (30°-60°)	37207.0	48.4			
FH (60°-80°)	24346.7	31.7			G5
FVH (80°-90°)	344.7	0.4			G3/500
BL (0°-30°)	2582.2	3.4	B4/5000		
BM (30°-60°)	5879.7	7.6	B4/8500		
BH (60°-80°)	1805.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	17.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0
2.5°	8914.0	8975.9	8960.4	8945.0	8939.8	8950.1	8955.3	8950.1	8950.1	8950.1
5°	8743.9	8795.5	8795.5	8831.5	8883.1	8945.0	8991.4	9001.7	9012.0	9027.5
7.5°	8419.1	8460.3	8491.3	8609.9	8738.7	8903.7	9042.9	9115.1	9125.4	9182.1
10°	8197.4	8249.0	8300.5	8424.3	8609.9	8857.3	9094.5	9269.8	9295.5	9429.6
12.5°	8187.1	8238.6	8305.7	8439.7	8656.3	8919.2	9207.9	9460.5	9506.9	9702.8
15°	8295.4	8357.2	8419.1	8584.1	8816.1	9135.7	9445.1	9759.6	9806.0	10084.4
17.5°	8517.1	8599.5	8645.9	8810.9	9058.4	9414.1	9821.4	10182.3	10223.6	10548.4
20°	8955.3	9053.2	9068.7	9202.7	9445.1	9826.6	10311.2	10759.7	10811.3	11182.5
22.5°	9862.7	10001.9	9878.1	9945.2	10161.7	10543.2	11069.1	11636.2	11708.4	12131.1
25°	11460.9	11656.8	11337.2	11223.7	11316.5	11713.5	12373.4	13090.1	13172.6	13512.8
27.5°	14600.7	14348.0	13863.4	13389.1	13110.7	13337.5	14079.9	14966.7	15069.8	15399.8
30°	18049.8	17828.1	17173.3	16121.6	15461.6	15425.6	16111.3	17101.1	17219.7	17534.2
32.5°	21504.0	21292.6	20581.2	19287.1	18142.6	17575.4	18049.8	19147.9	19209.8	19410.8
35°	24901.5	24685.0	23973.5	22648.6	21241.1	19952.2	19859.4	21096.7	21117.3	21328.7
37.5°	28319.7	28139.3	27381.4	26082.2	24695.3	22916.6	22055.7	22942.4	22968.2	23174.4
40°	30758.3	30835.6	30314.9	29309.6	28118.6	26175.0	24520.0	24906.7	24752.0	25097.5
42.5°	32851.5	33006.2	32552.5	32047.2	31356.4	29644.7	27572.1	27505.1	27257.7	27443.3
45°	34661.1	34790.0	34382.7	34264.1	34248.7	33047.4	30907.8	30505.7	30160.3	30124.2
47.5°	35326.2	35573.6	35748.9	36145.9	36919.3	36414.0	34356.9	33733.1	33346.4	33062.9
50°	35578.8	35841.7	36439.8	37594.6	39424.9	39641.4	37790.5	37089.4	36615.1	36099.5
52.5°	35238.5	35707.7	36512.0	38455.6	41110.8	42229.5	41085.0	40471.5	39930.1	39089.8
55°	33233.0	33702.2	35346.8	38445.3	41951.1	44044.3	44199.0	43925.7	43317.4	41992.4
57.5°	29005.4	29701.4	32305.0	37135.8	41935.7	45606.4	47251.1	47447.0	46766.4	44869.2
60°	23148.6	24092.1	27268.0	34233.2	40641.6	46452.0	49926.8	50906.4	50184.6	47704.8
62.5°	16152.5	17245.5	20251.2	29685.9	37682.3	45843.6	51880.8	53690.4	53143.9	50241.3
65°	9852.4	10202.9	12626.1	23360.0	32650.4	43296.7	52484.0	55195.9	55015.4	51793.2
67.5°	6563.1	6856.9	7553.0	16018.4	25344.9	38208.2	51040.4	54932.9	54984.5	51540.5
70°	3954.3	4207.0	4660.7	9316.2	16425.7	30242.8	46570.5	51581.8	51880.8	48163.6
72.5°	1629.2	1799.3	2211.8	4222.4	8506.7	19194.3	37084.2	44286.6	44982.6	40497.2
75°	922.9	1010.5	1299.2	2119.0	3691.4	8945.0	22463.0	31438.9	32464.8	27912.4
77.5°	613.5	654.8	840.4	1371.4	2077.7	3052.1	9599.7	16379.3	18338.5	15245.1
80°	412.4	448.5	577.4	917.7	1350.8	1309.5	3057.3	6068.1	7465.3	5238.1
82.5°	278.4	283.6	412.4	603.2	855.8	634.1	902.2	1886.9	2371.6	1515.7
85°	159.8	154.7	304.2	350.6	381.5	262.9	273.2	567.1	742.4	639.3
87.5°	20.6	30.9	118.6	92.8	51.6	56.7	56.7	98.0	144.4	154.7
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°
8945.0	0°	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0	8945.0
8955.3	2.5°	8955.3	8950.1	8934.7	8919.2	8883.1	8862.5	8872.8	8862.5	8857.3	8862.5
9022.3	5°	9022.3	9006.8	8965.6	8914.0	8841.9	8754.2	8697.5	8615.0	8537.7	8491.3
9202.7	7.5°	9202.7	9187.3	9130.6	8986.2	8754.2	8388.2	8053.0	7759.2	7537.5	7408.6
9491.5	10°	9491.5	9465.7	9378.0	9058.4	8450.0	7650.9	6985.8	6434.2	6073.3	5903.2
9831.7	12.5°	9831.7	9800.8	9646.1	8991.4	7872.6	6624.9	5707.2	5093.7	4758.6	4609.1
10223.6	15°	10233.9	10192.6	9888.4	8671.7	7032.2	5490.7	4650.4	4191.5	3975.0	3840.9
10723.6	17.5°	10734.0	10661.8	10068.9	8192.2	6119.7	4624.6	4000.7	3655.3	3464.6	3335.7
11378.4	20°	11383.6	11265.0	10213.2	7620.0	5279.3	4078.1	3562.5	3273.8	3129.4	3016.0
12306.4	22.5°	12291.0	12120.8	10388.5	7001.3	4686.4	3701.7	3237.7	3026.3	2907.8	2778.9
13600.5	25°	13414.9	13213.8	10605.1	6429.0	4279.1	3376.9	3000.6	2825.3	2686.1	2536.6
15296.7	27.5°	14987.3	14626.4	10862.8	5959.9	3928.6	3098.5	2784.0	2588.1	2428.3	2304.6
17219.7	30°	16740.2	16147.3	11089.7	5676.3	3608.9	2840.7	2500.5	2304.6	2155.0	2067.4
18946.8	32.5°	18400.3	17596.1	11239.2	5552.6	3320.2	2546.9	2191.1	1979.8	1866.3	1840.5
20637.9	35°	19967.6	18905.6	11223.7	5434.0	3062.4	2253.0	1886.9	1670.4	1582.8	1598.2
22457.8	37.5°	21772.1	20302.8	11115.5	5248.4	2851.0	1984.9	1624.0	1433.3	1355.9	1361.1
24669.5	40°	23870.4	21916.5	11048.5	4897.8	2619.0	1737.4	1407.5	1252.8	1196.1	1175.5
26999.9	42.5°	26108.0	23478.6	11058.8	4500.8	2330.3	1515.7	1258.0	1129.1	1077.5	1062.1
29593.1	45°	28355.8	24968.6	11074.2	4088.4	2026.2	1345.6	1149.7	1041.4	1010.5	989.9
32222.5	47.5°	30469.6	26236.8	10785.5	3645.0	1727.1	1216.7	1062.1	989.9	964.1	938.3
34862.2	50°	32439.0	27082.4	10089.5	3129.4	1490.0	1113.6	995.0	943.5	917.7	891.9
37254.4	52.5°	33970.2	27216.4	8939.8	2598.4	1325.0	1036.3	953.8	907.4	876.5	850.7
39187.7	55°	34650.8	26376.1	7305.5	2103.5	1196.1	969.3	912.5	866.1	830.1	804.3
40708.6	57.5°	34475.5	24607.7	5696.9	1691.0	1072.4	902.2	861.0	830.1	788.8	747.6
41940.8	60°	33614.5	22241.3	4294.6	1407.5	958.9	830.1	804.3	778.5	721.8	659.9
42415.1	62.5°	32124.5	19266.5	3062.4	1165.2	835.2	747.6	737.3	716.6	634.1	520.7
41714.0	65°	29845.8	15652.4	2062.2	969.3	716.6	654.8	659.9	623.8	515.6	386.7
39146.5	67.5°	26515.3	11445.4	1319.8	794.0	598.0	546.5	551.6	531.0	438.2	330.0
34279.6	70°	22272.2	7578.7	861.0	603.2	479.5	422.8	453.7	458.8	371.2	268.1
26309.0	72.5°	16327.8	4475.1	603.2	448.5	350.6	293.9	371.2	381.5	299.0	201.1
15827.7	75°	9305.9	2124.1	453.7	324.8	216.5	206.2	288.7	288.7	206.2	134.0
6851.8	77.5°	3907.9	886.8	319.6	211.4	123.7	118.6	195.9	180.4	103.1	61.9
1670.4	80°	1129.1	397.0	170.1	103.1	51.6	46.4	77.3	56.7	25.8	10.3
634.1	82.5°	443.4	175.3	67.0	41.2	20.6	20.6	10.3	0.0	0.0	0.0
360.9	85°	262.9	72.2	30.9	15.5	5.2	0.0	0.0	0.0	0.0	0.0
77.3	87.5°	67.0	15.5	10.3	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>
8945.0
8883.1
8501.6
7413.8
5887.7
4593.6
3846.1
3325.4
2995.4
2758.2
2521.1
2278.8
2051.9
1856.0
1598.2
1381.7
1170.3
1056.9
989.9
938.3
891.9
845.5
799.1
742.4
649.6
510.4
376.4
314.5
257.8
190.8
123.7
61.9
10.3
0.0
0.0
0.0
0.0

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