

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: P956861

Luminaire Tested: **GALN-SB9B-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956861
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-SB9B-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA 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: 37790 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

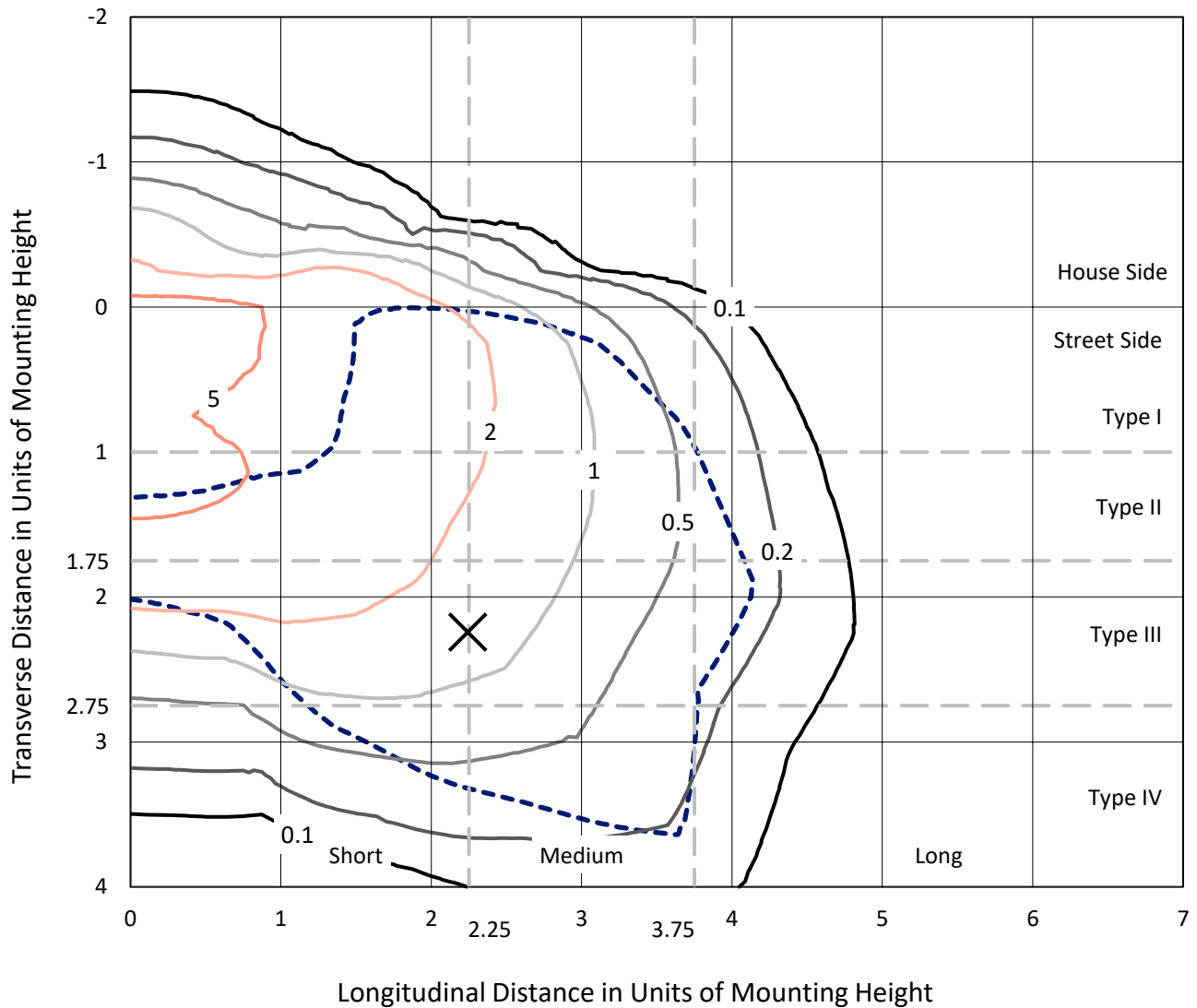
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

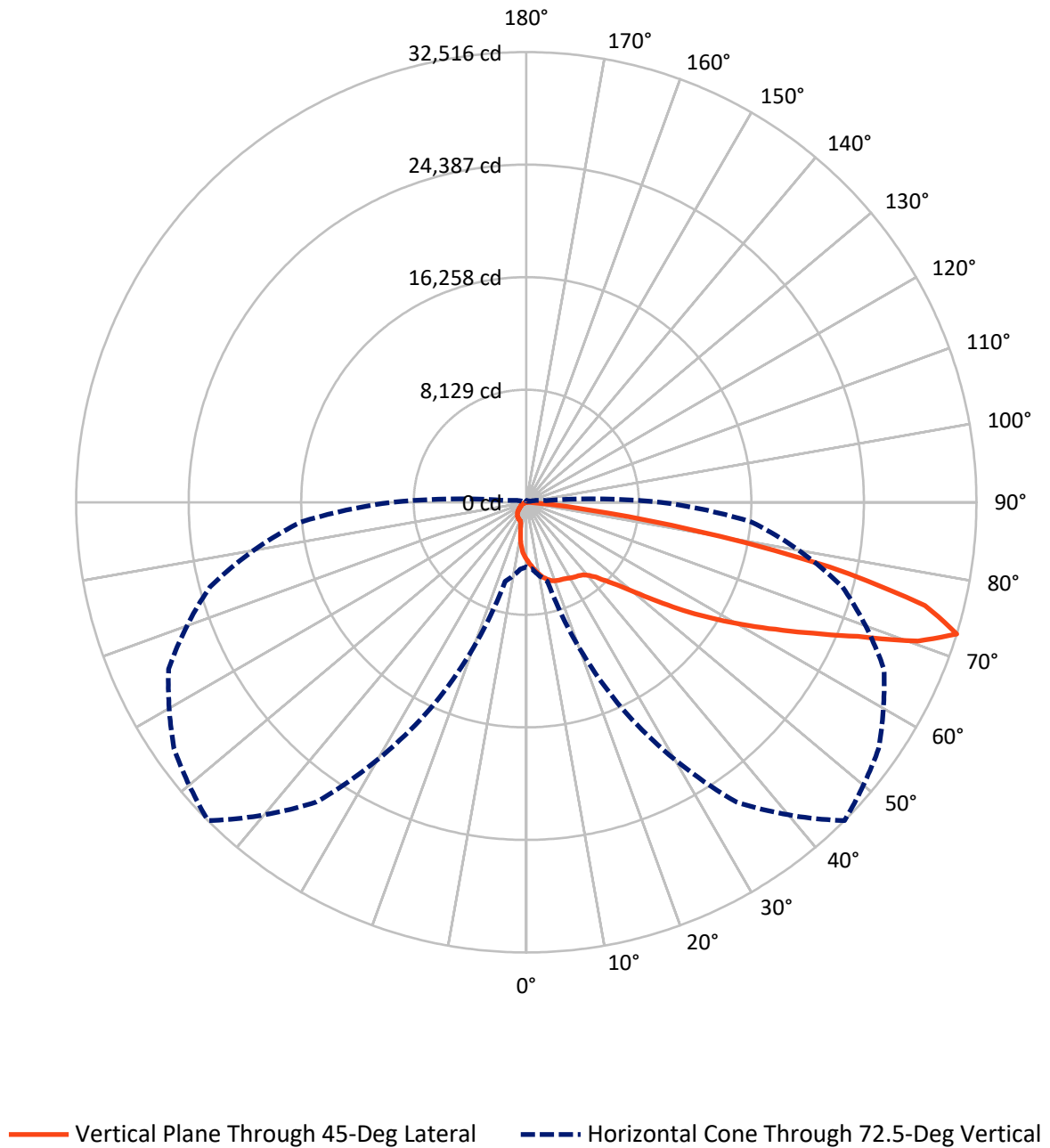
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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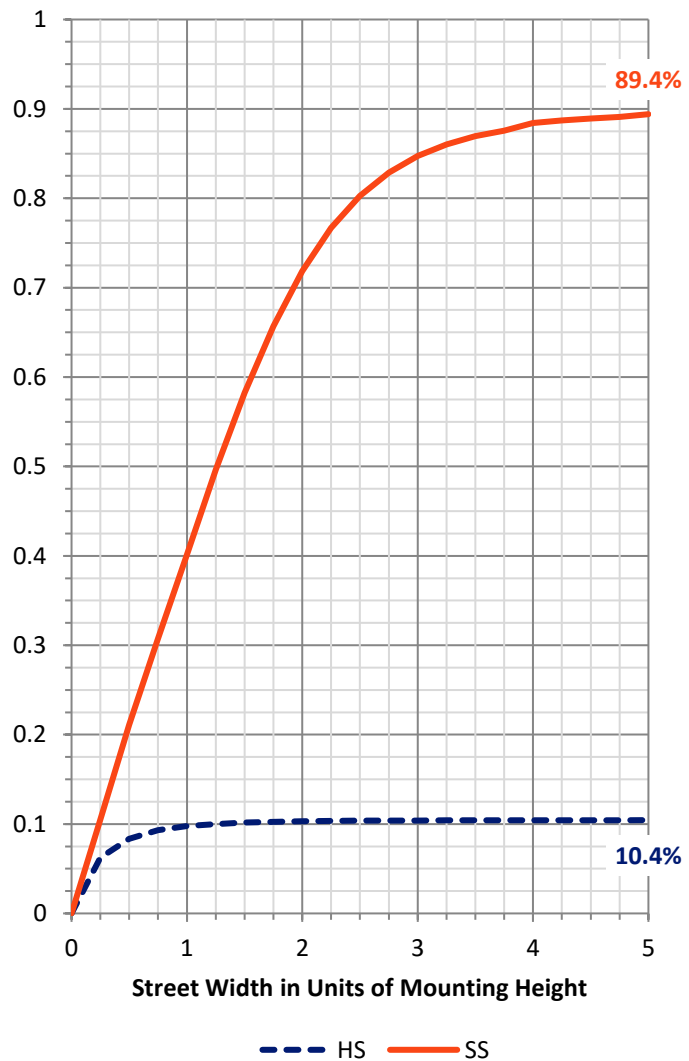
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.7	0.0	3970.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	33819.3	0.0	33819.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	37790.0	0.0	37790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	1.0
10°-20°	1140.0	3.0
20°-30°	1872.1	5.0
30°-40°	2655.0	7.0
40°-50°	4388.5	11.6
50°-60°	7883.4	20.9
60°-70°	10946.6	29.0
70°-80°	7940.3	21.0
80°-90°	574.1	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°	37790.0	100.0
0°-180°	37790.0	100.0

Coefficient of Utilization



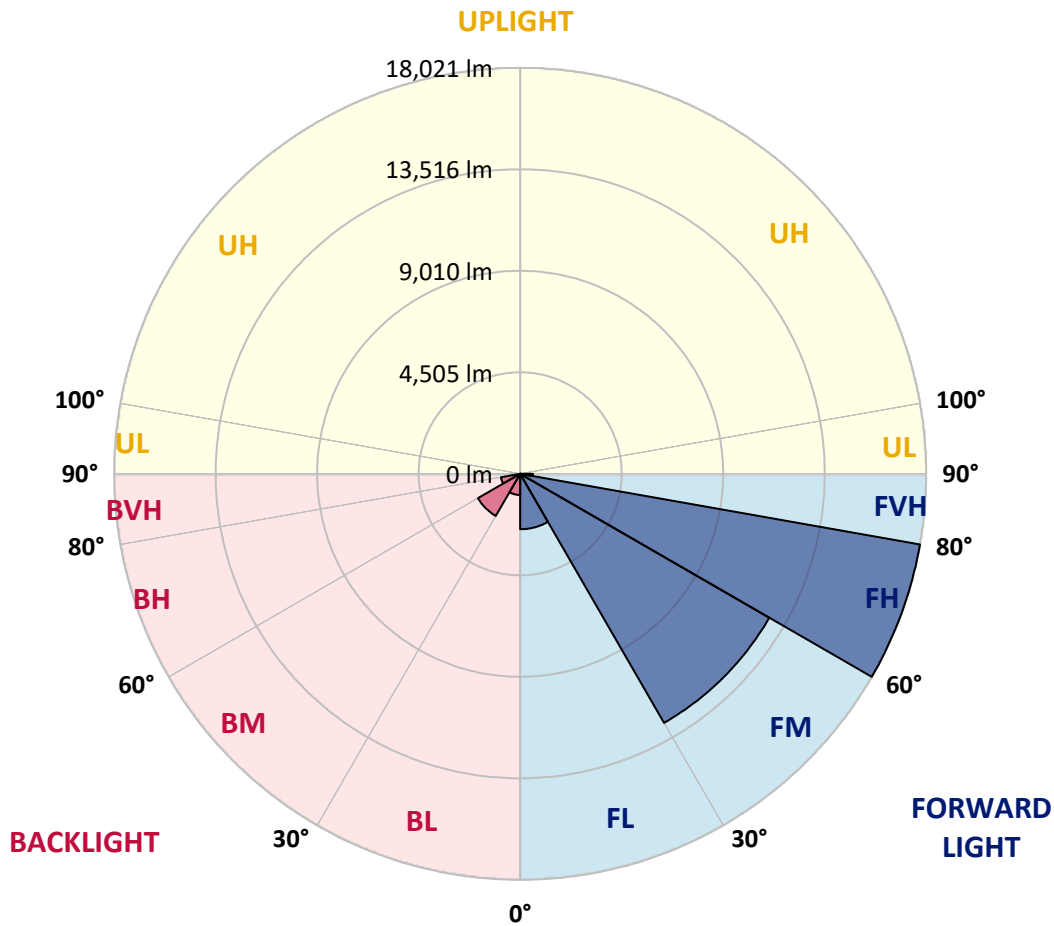
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.6	6.5			
FM (30°-60°)	12767.5	33.8			
FH (60°-80°)	18021.0	47.7			G5
FVH (80°-90°)	569.2	1.5			G4/750
BL (0°-30°)	940.5	2.5	B2/1000		
BM (30°-60°)	2159.5	5.7	B2/2500		
BH (60°-80°)	865.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0
2.5°	4521.7	4529.5	4524.3	4493.4	4441.8	4413.4	4397.9	4346.3	4312.8	4253.5
5°	4937.0	4968.0	4949.9	4888.0	4790.0	4720.3	4699.7	4594.0	4498.5	4387.6
7.5°	5378.1	5393.6	5360.0	5280.1	5148.5	5029.9	5011.8	4864.8	4712.6	4542.4
10°	5759.9	5777.9	5726.3	5610.2	5460.6	5313.6	5287.8	5125.3	4944.8	4735.8
12.5°	6079.7	6097.8	6030.7	5891.4	5726.3	5574.1	5548.3	5378.1	5179.5	4947.3
15°	6322.2	6355.7	6265.4	6115.8	5937.8	5785.6	5772.8	5605.1	5411.6	5153.7
17.5°	6464.0	6497.6	6412.4	6231.9	6079.7	5950.7	5935.3	5796.0	5615.4	5367.8
20°	6487.3	6518.2	6427.9	6270.6	6144.2	6041.0	6033.3	5932.7	5801.1	5563.8
22.5°	6417.6	6456.3	6373.8	6247.4	6159.7	6105.5	6095.2	6038.4	5963.6	5762.4
25°	6345.4	6376.3	6314.4	6203.5	6157.1	6151.9	6159.7	6149.3	6133.9	5963.6
27.5°	6340.2	6373.8	6304.1	6198.4	6172.6	6226.7	6234.5	6283.5	6296.4	6146.8
30°	6384.1	6407.3	6340.2	6229.3	6216.4	6340.2	6342.8	6430.5	6451.1	6301.5
32.5°	6479.5	6505.3	6438.2	6275.7	6257.7	6430.5	6438.2	6554.3	6587.8	6466.6
35°	6703.9	6734.9	6657.5	6404.7	6340.2	6515.6	6538.8	6675.5	6742.6	6642.0
37.5°	7263.7	7173.4	7067.6	6665.2	6528.5	6649.8	6688.4	6848.4	6967.0	6850.9
40°	8654.0	8370.2	8040.1	7108.9	6858.7	6936.1	6967.0	7126.9	7289.5	7176.0
42.5°	10740.7	10405.4	9874.0	8130.3	7356.5	7395.2	7418.4	7557.7	7787.3	7697.0
45°	12600.5	12479.3	11937.6	9874.0	8287.7	8096.8	8125.2	8197.4	8535.3	8501.8
47.5°	14029.5	13959.8	13542.0	11875.7	9861.1	8955.8	9035.7	9069.3	9556.8	9675.4
50°	15128.3	15102.5	14728.5	13655.5	11916.9	10222.3	10250.6	10178.4	10908.4	11202.4
52.5°	16165.2	16252.9	15976.9	15308.9	14112.0	11880.8	11875.7	11535.2	12520.5	12964.2
55°	17101.6	17132.5	17160.9	16995.8	16320.0	13769.0	13720.0	13162.8	14390.6	14849.7
57.5°	17981.2	17994.1	18246.8	18584.7	18618.3	15796.4	15706.1	15038.0	16433.5	16761.1
60°	18571.8	18631.2	19165.1	20104.0	20514.2	17888.3	17839.3	17158.3	18512.5	18664.7
62.5°	17720.6	18081.8	19428.2	21290.6	22304.3	20207.2	20184.0	19544.3	20699.9	20576.1
65°	14344.2	14955.5	17323.4	22092.8	24060.9	22796.9	22830.5	22149.5	22946.6	22544.2
67.5°	10034.0	10678.8	13480.1	22157.2	26023.8	25838.1	26031.5	24963.7	25332.5	24429.7
70°	6938.6	7271.4	9095.0	20769.5	27553.4	30027.1	30021.9	28420.1	27705.6	25288.7
72.5°	4666.2	4839.0	5906.9	16477.4	26428.8	32516.2	32366.6	31061.4	28505.2	23650.7
75°	1968.1	2094.5	2734.2	9260.1	20908.8	29748.5	29343.5	27450.2	25327.4	18623.4
77.5°	624.2	678.4	1078.2	3314.6	11517.1	22361.0	21932.8	17142.8	16975.2	9342.7
80°	296.6	345.6	606.2	1331.0	4532.0	12162.0	12102.7	7777.0	7302.3	2522.7
82.5°	129.0	152.2	335.3	711.9	2027.4	4338.6	4426.3	2646.5	2189.9	957.0
85°	41.3	54.2	154.8	327.6	856.4	1078.2	1065.3	629.4	882.2	521.0
87.5°	0.0	0.0	51.6	74.8	87.7	61.9	69.6	54.2	245.0	144.4
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°
4140.0	0°	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0	4140.0
4191.6	2.5°	4160.6	4119.3	4047.1	3980.1	3920.7	3861.4	3825.3	3773.7	3768.5	3768.5
4258.6	5°	4189.0	4121.9	3992.9	3856.2	3698.9	3549.3	3399.7	3255.2	3208.8	3175.3
4367.0	7.5°	4271.5	4165.8	3962.0	3701.5	3402.3	3074.7	2845.1	2597.5	2502.0	2450.5
4511.4	10°	4390.2	4245.7	3936.2	3479.6	2994.7	2548.5	2220.9	1952.6	1849.4	1805.6
4668.8	12.5°	4521.7	4343.7	3889.8	3203.6	2548.5	2014.5	1694.7	1570.9	1555.4	1555.4
4857.1	15°	4679.1	4462.4	3809.8	2878.6	2081.6	1594.1	1480.6	1485.7	1501.2	1511.5
5040.2	17.5°	4841.6	4588.8	3683.4	2514.9	1668.9	1434.2	1436.7	1444.5	1457.4	1467.7
5238.8	20°	5017.0	4715.2	3515.8	2128.0	1431.6	1387.7	1395.5	1403.2	1413.5	1418.7
5424.5	22.5°	5205.3	4833.8	3317.1	1748.8	1351.6	1349.0	1351.6	1359.4	1372.3	1372.3
5641.2	25°	5406.5	4965.4	3090.1	1472.9	1310.3	1310.3	1315.5	1320.7	1331.0	1331.0
5850.1	27.5°	5612.8	5086.6	2850.3	1328.4	1274.2	1271.7	1271.7	1279.4	1284.6	1287.1
6056.5	30°	5839.8	5228.5	2610.4	1297.5	1245.9	1233.0	1225.2	1230.4	1235.5	1238.1
6273.2	32.5°	6072.0	5365.2	2396.3	1310.3	1217.5	1194.3	1168.5	1163.3	1163.3	1173.6
6497.6	35°	6329.9	5514.8	2231.2	1354.2	1202.0	1137.5	1096.3	1073.0	1075.6	1091.1
6765.8	37.5°	6639.4	5695.4	2110.0	1392.9	1191.7	1073.0	1006.0	977.6	959.5	977.6
7134.7	40°	7044.4	5961.0	2022.3	1423.8	1178.8	998.2	908.0	861.5	828.0	838.3
7707.3	42.5°	7640.3	6378.9	1988.7	1426.4	1150.4	910.5	807.4	745.5	696.4	699.0
8568.8	45°	8476.0	7039.2	2161.6	1392.9	1088.5	815.1	701.6	619.1	588.1	580.4
9856.0	47.5°	9621.3	8001.4	2561.4	1323.2	998.2	722.2	598.4	528.8	505.6	492.7
11545.5	50°	11156.0	9236.9	3005.0	1245.9	908.0	634.5	513.3	469.5	454.0	441.1
13549.7	52.5°	12935.8	10490.5	3368.7	1168.5	817.7	557.2	459.1	433.3	420.4	410.1
15484.3	55°	14568.6	11354.6	3348.1	1085.9	730.0	495.2	420.4	405.0	389.5	379.2
17150.6	57.5°	15584.9	11475.9	2760.0	995.7	629.4	446.2	384.3	374.0	356.0	343.1
18592.5	60°	16051.8	10784.6	1934.6	877.0	528.8	399.8	345.6	340.5	317.3	299.2
19957.0	62.5°	16136.9	9500.0	1289.7	730.0	441.1	356.0	307.0	299.2	268.3	237.3
21066.2	65°	15791.2	7663.5	892.5	570.1	376.6	309.5	263.1	247.6	214.1	183.1
21329.3	67.5°	14697.6	5380.7	621.6	410.1	319.8	245.0	208.9	203.8	178.0	152.2
19988.0	70°	12693.3	3066.9	415.3	307.0	252.8	167.7	165.1	170.2	144.4	123.8
16330.3	72.5°	9732.2	1403.2	257.9	224.4	172.8	113.5	131.6	134.1	110.9	92.9
10188.7	75°	5728.9	601.0	162.5	144.4	87.7	74.8	95.4	98.0	74.8	59.3
3724.7	77.5°	1950.0	227.0	103.2	85.1	43.9	41.3	61.9	61.9	41.3	23.2
748.0	80°	443.7	85.1	51.6	33.5	20.6	18.1	20.6	18.1	10.3	2.6
229.6	82.5°	126.4	33.5	20.6	12.9	7.7	7.7	2.6	0.0	0.0	0.0
80.0	85°	36.1	15.5	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
28.4	87.5°	15.5	2.6	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>
4140.0
3781.4
3190.7
2458.2
1805.6
1555.4
1511.5
1467.7
1421.3
1377.4
1333.6
1289.7
1243.3
1181.4
1098.8
972.4
833.2
688.7
570.1
484.9
438.5
407.5
374.0
340.5
294.1
221.8
172.8
144.4
113.5
82.5
51.6
18.1
0.0
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