

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: P941878

Luminaire Tested: **GALN-SB5C-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27398 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

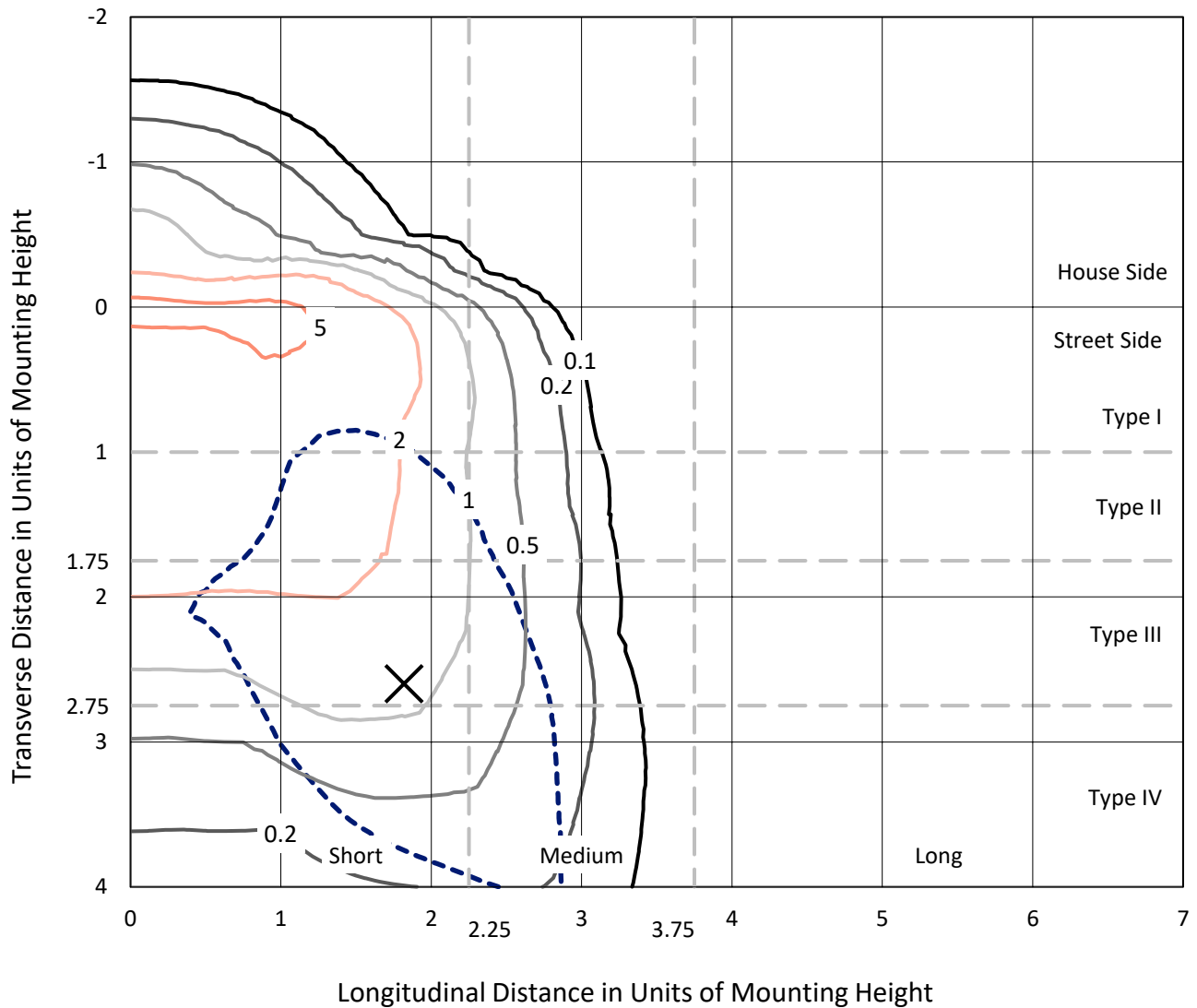
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

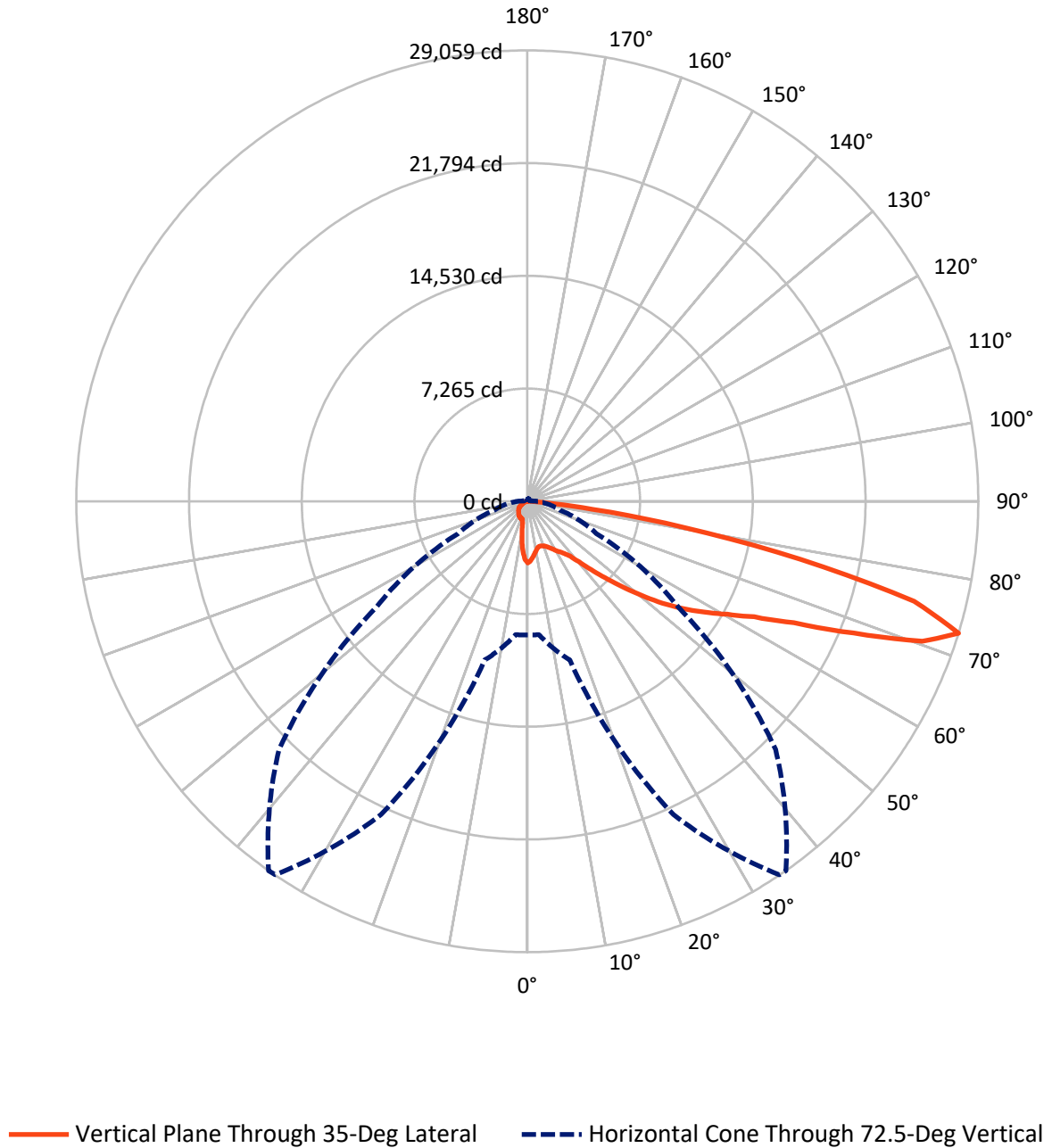
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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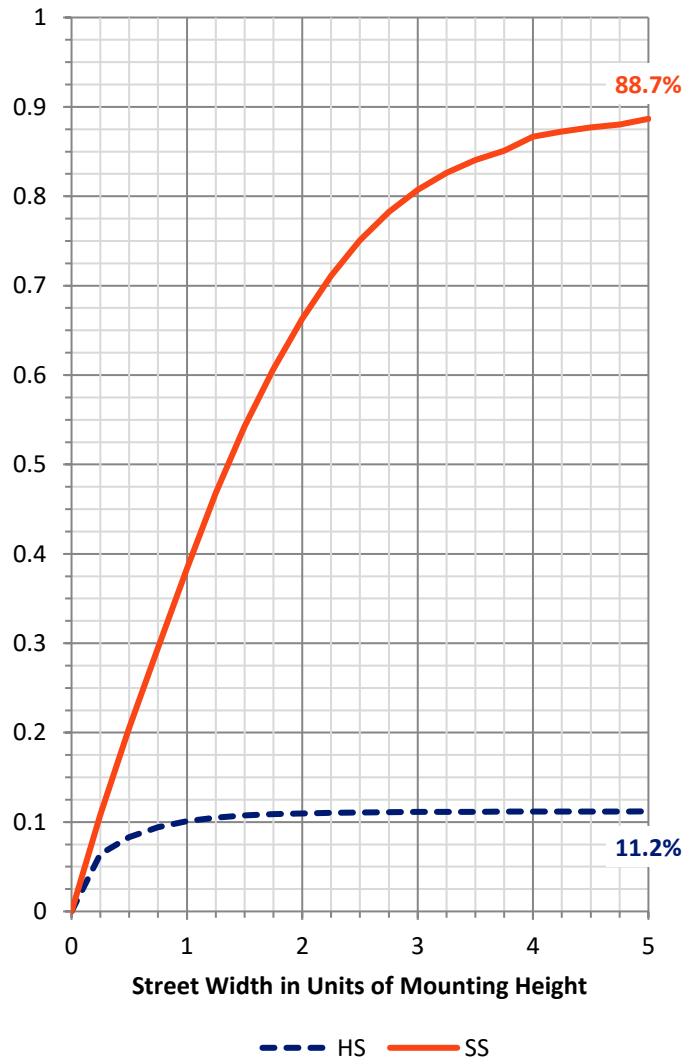
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3083.5	0.0	3083.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24314.5	0.0	24314.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	27398.0	0.0	27398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	1.2
10°-20°	763.3	2.8
20°-30°	1240.0	4.5
30°-40°	2069.0	7.6
40°-50°	3914.6	14.3
50°-60°	6220.2	22.7
60°-70°	7694.8	28.1
70°-80°	4783.2	17.5
80°-90°	386.6	1.4
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°	27398.0	100.0
0°-180°	27398.0	100.0

Coefficient of Utilization



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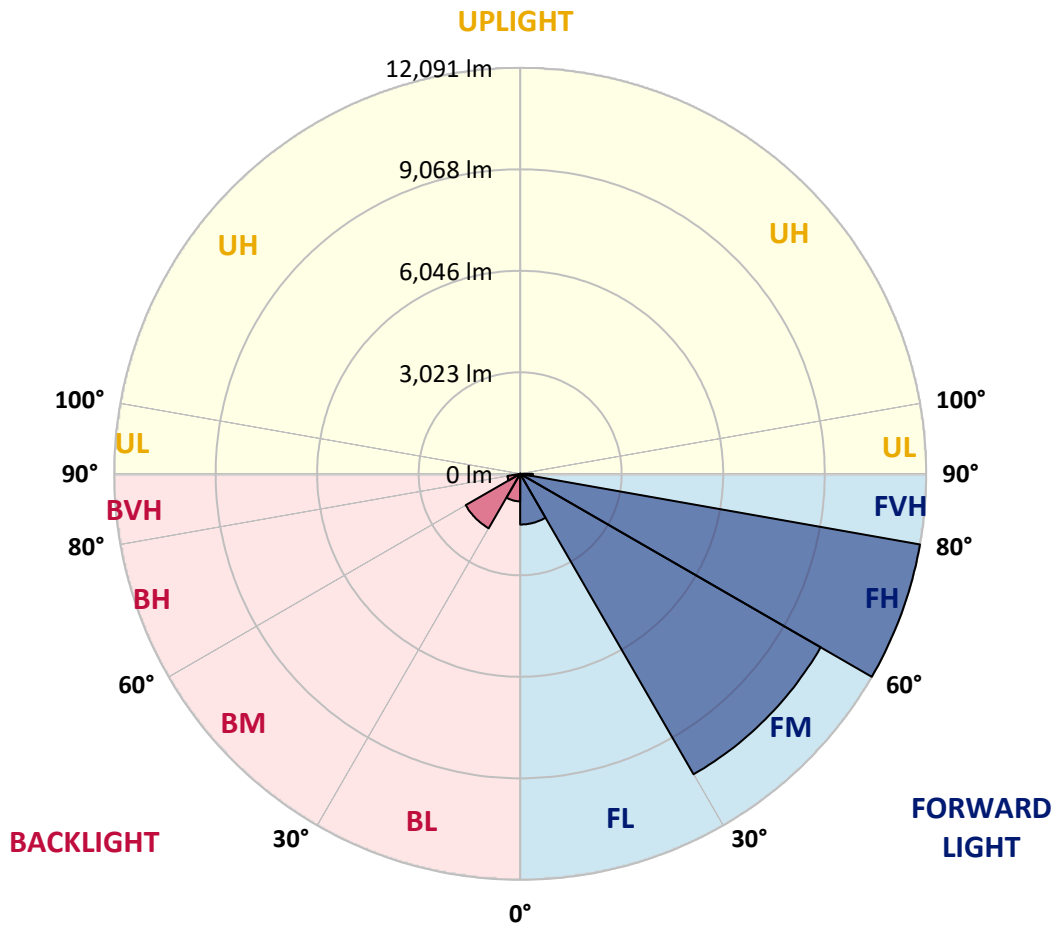
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.3	5.5			
FM (30°-60°)	10331.8	37.7			
FH (60°-80°)	12091.1	44.1			G5
FVH (80°-90°)	381.3	1.4			G3/500
BL (0°-30°)	819.3	3.0	B2/1000		
BM (30°-60°)	1872.0	6.8	B2/2500		
BH (60°-80°)	386.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	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°	34°	35°	45°	55°	65°	75°
0°	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9
2.5°	3794.2	3826.3	3832.4	3842.4	3842.4	3854.5	3874.5	3902.6	3948.8	3972.9
5°	3497.1	3521.2	3551.3	3575.4	3621.6	3627.6	3705.9	3782.2	3888.6	3968.9
7.5°	3198.0	3226.1	3266.2	3324.5	3384.7	3402.8	3521.2	3649.7	3818.3	3968.9
10°	2987.2	2989.2	3025.3	3083.6	3179.9	3202.0	3346.5	3529.2	3740.0	3944.8
12.5°	2868.8	2882.8	2898.9	2943.0	3035.4	3049.4	3204.0	3418.8	3661.7	3930.7
15°	2868.8	2878.8	2888.8	2910.9	2985.2	2997.2	3133.7	3348.6	3621.6	3936.8
17.5°	2898.9	2914.9	2906.9	2933.0	3011.3	3019.3	3139.8	3328.5	3619.6	3974.9
20°	2971.1	2983.2	2967.1	2983.2	3061.5	3077.5	3202.0	3366.6	3653.7	4041.2
22.5°	3085.6	3091.6	3053.4	3065.5	3145.8	3165.9	3310.4	3475.0	3736.0	4147.6
25°	3230.1	3242.2	3183.9	3198.0	3274.3	3298.4	3465.0	3637.6	3866.5	4294.1
27.5°	3396.7	3402.8	3352.6	3350.6	3448.9	3483.1	3651.7	3838.4	4041.2	4478.8
30°	3587.5	3605.5	3557.3	3549.3	3673.8	3701.9	3868.5	4085.3	4298.1	4755.8
32.5°	3738.0	3752.1	3724.0	3744.0	3870.5	3892.6	4131.5	4434.6	4701.6	5149.3
35°	3954.8	3962.9	3898.6	3934.8	4079.3	4135.5	4490.8	4924.5	5209.5	5643.2
37.5°	4739.8	4739.8	4466.7	4288.1	4426.6	4476.8	4982.7	5540.8	5835.9	6305.6
40°	5825.8	5807.8	5408.3	5042.9	5024.8	5123.2	5683.3	6317.7	6644.9	7100.6
42.5°	6984.2	6956.1	6412.0	6050.7	5990.5	6024.6	6492.3	7275.3	7608.5	8070.3
45°	8012.0	8004.0	7506.1	7020.3	6911.9	7020.3	7502.1	8395.5	8634.4	9120.2
47.5°	8873.3	8873.3	8509.9	8192.7	8136.5	8200.7	8869.3	9638.1	9616.1	10238.4
50°	9865.0	9857.0	9511.7	9375.2	9433.4	9523.7	10443.2	10947.0	10631.9	11336.5
52.5°	10559.6	10607.8	10489.3	10467.2	10764.4	10920.9	12041.1	12227.8	11541.3	12378.4
55°	11109.7	11165.9	11302.4	11457.0	12029.1	12233.9	13589.0	13442.4	12302.1	13281.8
57.5°	11888.6	11808.3	12019.1	12324.2	13249.7	13496.6	15088.6	14588.7	12914.4	14014.5
60°	12834.1	12846.2	12882.3	13267.7	14468.2	14785.4	16566.1	15672.8	13307.9	14464.2
62.5°	13970.4	13988.4	14062.7	14654.9	16104.4	16403.5	18140.0	16560.1	13488.6	14337.8
65°	13892.1	13968.4	14797.5	16823.1	18591.7	18886.8	19976.9	17182.4	13215.6	13181.4
67.5°	12655.5	12779.9	14167.1	19412.8	22341.8	22671.0	22197.2	17304.9	12037.1	10250.4
70°	11033.4	11077.5	12745.8	21741.5	26684.1	27017.3	24184.7	15957.8	9134.2	5717.4
72.5°	8616.3	8626.3	10583.7	22281.5	29040.9	29059.0	22624.8	11846.4	4912.4	2196.2
75°	6155.1	6094.9	7088.6	18069.8	25549.8	25754.6	16961.6	5556.8	1877.0	1037.9
77.5°	3300.4	3366.6	4011.0	10716.2	17650.2	17999.5	9254.7	1602.0	955.6	706.6
80°	1019.8	1076.0	1644.2	4906.4	9997.5	10208.3	3430.9	712.7	666.5	503.9
82.5°	321.2	333.2	766.9	2061.7	4149.6	4245.9	993.7	403.5	455.7	333.2
85°	92.3	94.4	341.3	768.9	1025.8	1045.9	279.0	156.6	261.0	206.8
87.5°	10.0	32.1	128.5	128.5	90.3	88.3	30.1	34.1	74.3	26.1
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°
3970.9	0°	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9	3970.9
3989.0	2.5°	3978.9	3980.9	3954.8	3910.7	3862.5	3822.3	3772.1	3732.0	3703.9	3695.9
4025.1	5°	4007.0	3993.0	3918.7	3784.2	3623.6	3485.1	3330.5	3208.0	3127.7	3093.6
4063.2	7.5°	4049.2	4009.0	3846.4	3581.4	3274.3	3001.3	2724.2	2509.4	2372.9	2304.6
4099.4	10°	4085.3	4005.0	3726.0	3288.3	2818.6	2405.0	2031.6	1772.6	1628.1	1559.8
4141.5	12.5°	4119.4	4003.0	3569.4	2941.0	2304.6	1798.7	1451.4	1323.0	1282.8	1268.8
4209.8	15°	4183.7	4009.0	3372.6	2543.5	1792.7	1359.1	1232.6	1230.6	1238.6	1234.6
4314.2	17.5°	4272.0	4015.1	3149.8	2122.0	1383.2	1198.5	1192.5	1210.5	1222.6	1216.6
4444.7	20°	4386.4	4039.1	2912.9	1704.4	1188.5	1158.3	1172.4	1188.5	1198.5	1188.5
4619.3	22.5°	4547.0	4081.3	2654.0	1369.1	1126.2	1134.3	1146.3	1164.4	1174.4	1160.4
4842.2	25°	4743.8	4147.6	2399.0	1190.5	1096.1	1106.1	1124.2	1144.3	1156.3	1142.3
5123.2	27.5°	4998.7	4254.0	2164.1	1150.3	1066.0	1072.0	1098.1	1128.2	1144.3	1126.2
5522.7	30°	5368.1	4428.6	1961.4	1168.4	1047.9	1033.9	1070.0	1112.2	1130.2	1114.2
6066.7	32.5°	5858.0	4675.5	1836.9	1196.5	1039.9	989.7	1023.8	1078.0	1108.2	1098.1
6777.4	35°	6500.4	5050.9	1788.7	1228.6	1033.9	943.5	967.6	1025.8	1078.0	1088.1
7672.8	37.5°	7279.3	5572.9	1802.8	1242.7	1015.8	905.4	917.4	967.6	1035.9	1068.0
8680.5	40°	8164.6	6181.2	1883.1	1228.6	995.7	873.3	875.3	913.4	973.7	1021.8
9764.6	42.5°	9078.0	6891.8	2031.6	1176.4	977.7	845.2	839.1	865.2	905.4	939.5
10846.7	45°	9947.3	7622.6	2178.2	1104.1	955.6	817.1	803.0	813.0	821.1	835.1
11900.6	47.5°	10706.1	8136.5	2136.0	1037.9	925.5	784.9	760.9	756.8	732.7	730.7
12842.2	50°	11230.1	8248.9	1897.1	971.6	881.3	748.8	710.7	686.6	644.4	624.3
13546.8	52.5°	11396.7	7805.3	1549.8	905.4	809.0	700.6	646.4	608.3	556.1	538.0
13952.3	55°	11175.9	6936.0	1238.6	825.1	708.7	636.4	576.2	526.0	483.8	461.7
13996.5	57.5°	10635.9	5829.9	979.7	730.7	602.3	564.1	503.9	453.7	417.6	395.5
13506.6	60°	9740.5	4629.4	774.9	618.3	513.9	485.8	423.6	391.5	359.3	333.2
12241.9	62.5°	8381.4	3304.4	608.3	489.8	429.6	397.5	361.4	337.3	299.1	263.0
9967.4	65°	6540.5	2021.6	469.8	359.3	345.3	329.2	307.2	285.1	238.9	202.8
6502.4	67.5°	4125.5	957.6	335.3	271.0	273.0	265.0	255.0	236.9	202.8	170.6
2912.9	70°	1816.8	463.7	220.8	206.8	202.8	202.8	210.8	204.8	172.6	142.5
1011.8	72.5°	618.3	248.9	164.6	156.6	146.5	144.5	176.7	170.6	138.5	110.4
503.9	75°	323.2	166.6	120.5	112.4	88.3	106.4	140.5	132.5	98.4	72.3
333.2	77.5°	210.8	118.4	82.3	72.3	50.2	70.3	104.4	92.3	58.2	36.1
218.8	80°	132.5	78.3	48.2	34.1	24.1	38.1	56.2	40.2	22.1	8.0
128.5	82.5°	70.3	40.2	18.1	12.0	10.0	12.0	14.1	10.0	4.0	0.0
66.2	85°	28.1	14.1	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0
12.0	87.5°	10.0	2.0	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>
3970.9
3709.9
3105.6
2314.7
1561.9
1264.7
1232.6
1214.6
1186.4
1158.3
1140.3
1126.2
1112.2
1098.1
1088.1
1076.0
1037.9
953.6
843.2
728.7
626.3
536.0
461.7
391.5
327.2
257.0
196.7
166.6
136.5
104.4
66.2
32.1
6.0
0.0
0.0
0.0
0.0

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