

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: P944458

Luminaire Tested: **GALN-SB9B-930-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944458
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-SB9B-930-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA 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: 27015 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

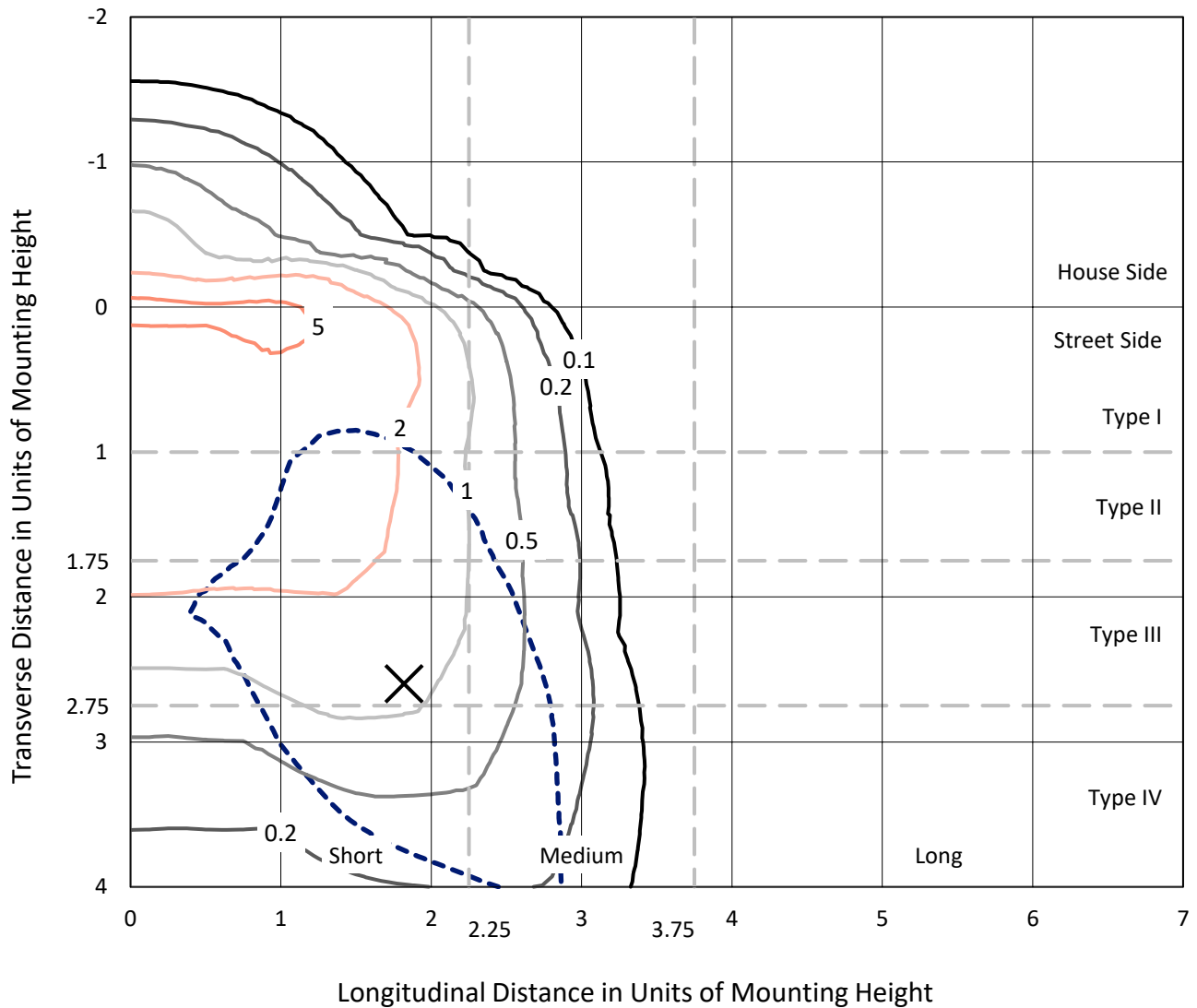
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

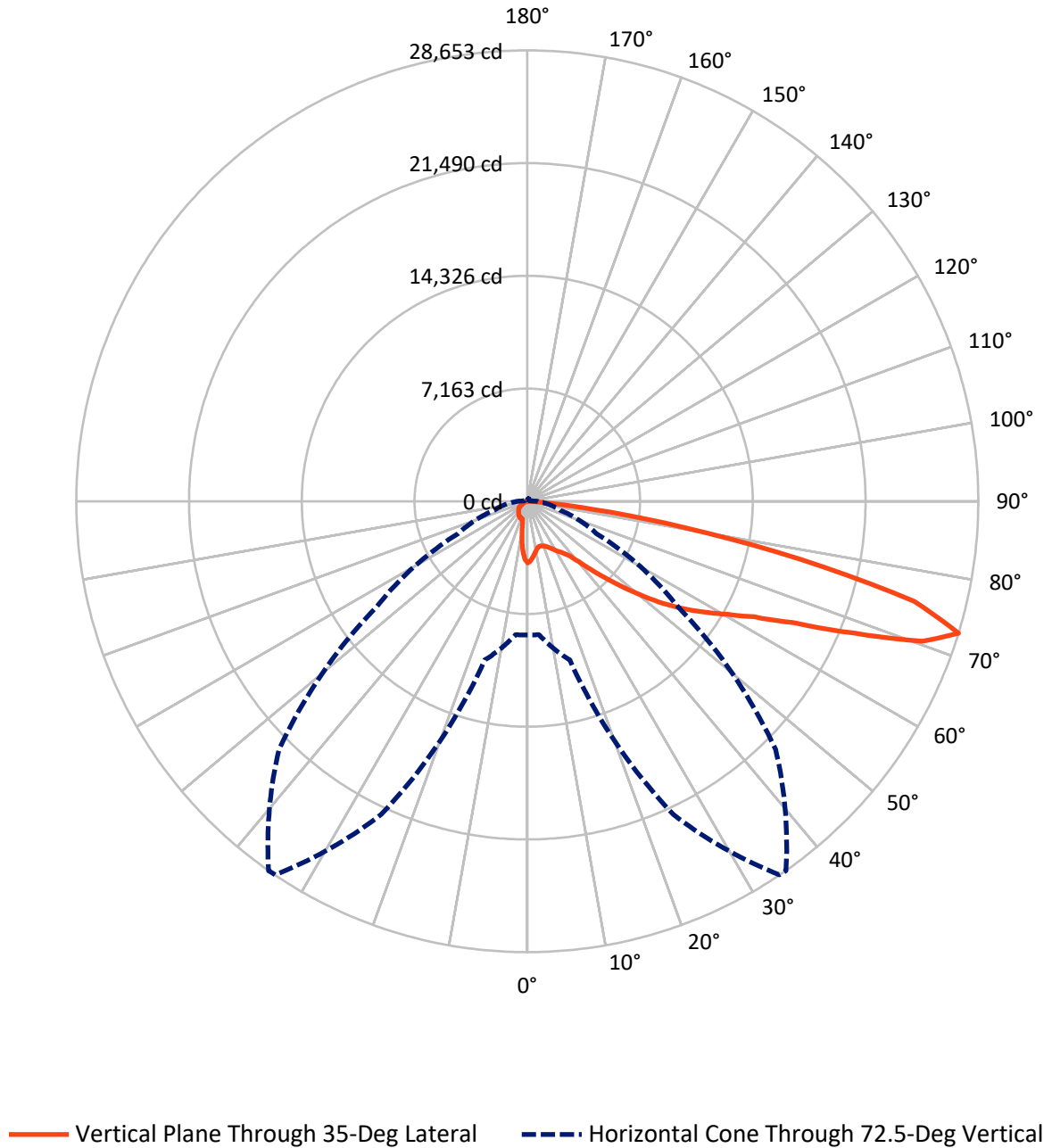
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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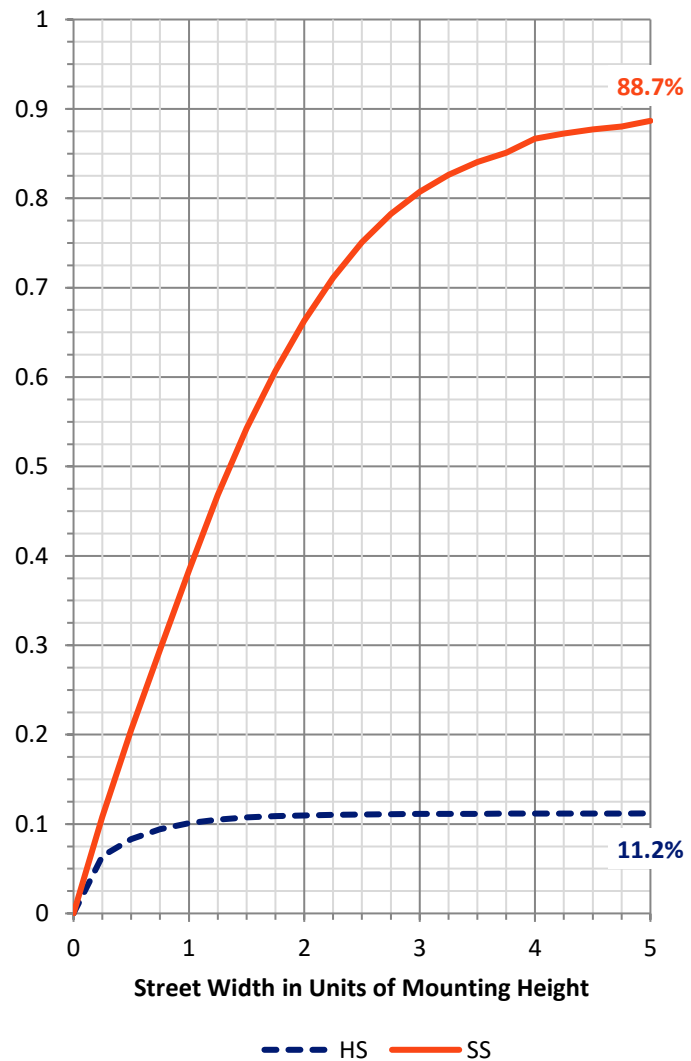
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3040.4	0.0	3040.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23974.6	0.0	23974.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	27015.0	0.0	27015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.2
10°-20°	752.7	2.8
20°-30°	1222.7	4.5
30°-40°	2040.1	7.6
40°-50°	3859.8	14.3
50°-60°	6133.3	22.7
60°-70°	7587.3	28.1
70°-80°	4716.3	17.5
80°-90°	381.2	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°	27015.0	100.0
0°-180°	27015.0	100.0

Coefficient of Utilization



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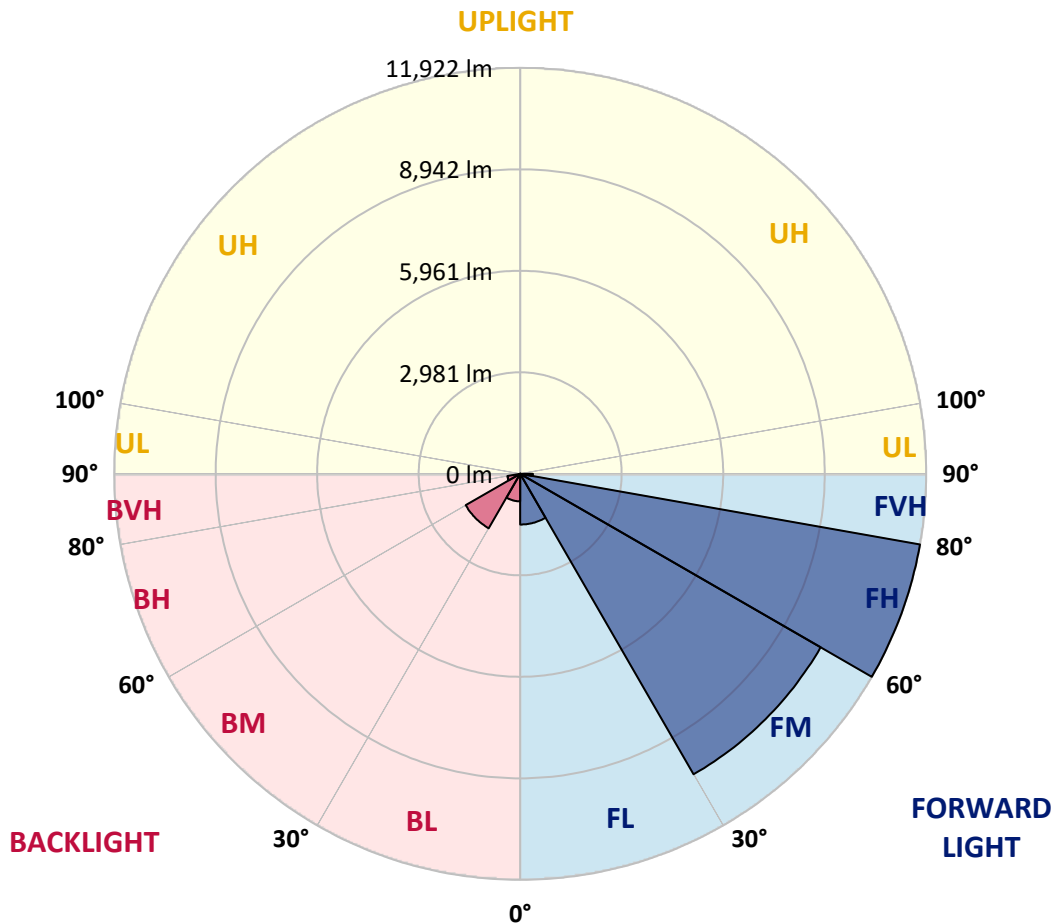
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.2	5.5			
FM (30°-60°)	10187.4	37.7			
FH (60°-80°)	11922.1	44.1			G4/12000
FVH (80°-90°)	376.0	1.4			G3/500
BL (0°-30°)	807.9	3.0	B2/1000		
BM (30°-60°)	1845.8	6.8	B2/2500		
BH (60°-80°)	381.5	1.4	B1/500		G1/500
BVH (80°-90°)	5.2	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4
2.5°	3741.2	3772.9	3778.8	3788.7	3788.7	3800.6	3820.4	3848.1	3893.6	3917.4
5°	3448.2	3472.0	3501.7	3525.4	3571.0	3576.9	3654.1	3729.3	3834.2	3913.4
7.5°	3153.3	3181.0	3220.6	3278.0	3337.4	3355.2	3472.0	3598.7	3764.9	3913.4
10°	2945.4	2947.4	2983.1	3040.5	3135.5	3157.2	3299.8	3479.9	3687.7	3889.6
12.5°	2828.7	2842.5	2858.3	2901.9	2992.9	3006.8	3159.2	3371.0	3610.5	3875.8
15°	2828.7	2838.6	2848.4	2870.2	2943.5	2955.3	3089.9	3301.7	3571.0	3881.7
17.5°	2858.3	2874.2	2866.3	2892.0	2969.2	2977.1	3095.9	3282.0	3569.0	3919.3
20°	2929.6	2941.5	2925.6	2941.5	3018.7	3034.5	3157.2	3319.6	3602.6	3984.7
22.5°	3042.4	3048.4	3010.8	3022.6	3101.8	3121.6	3264.1	3426.5	3683.8	4089.6
25°	3185.0	3196.8	3139.4	3153.3	3228.5	3252.3	3416.6	3586.8	3812.4	4234.1
27.5°	3349.3	3355.2	3305.7	3303.7	3400.7	3434.4	3600.6	3784.7	3984.7	4416.2
30°	3537.3	3555.1	3507.6	3499.7	3622.4	3650.1	3814.4	4028.2	4238.0	4689.3
32.5°	3685.8	3699.6	3671.9	3691.7	3816.4	3838.2	4073.7	4372.6	4635.9	5077.3
35°	3899.5	3907.5	3844.1	3879.7	4022.3	4077.7	4428.1	4855.6	5136.7	5564.3
37.5°	4673.5	4673.5	4404.3	4228.1	4364.7	4414.2	4913.0	5463.3	5754.3	6217.5
40°	5744.4	5726.6	5332.7	4972.4	4954.6	5051.6	5603.9	6229.4	6552.0	7001.4
42.5°	6886.6	6858.8	6322.4	5966.1	5906.7	5940.4	6401.6	7173.6	7502.2	7957.4
45°	7900.0	7892.1	7401.2	6922.2	6815.3	6922.2	7397.3	8278.1	8513.7	8992.7
47.5°	8749.2	8749.2	8390.9	8078.2	8022.8	8086.1	8745.3	9503.4	9481.6	10095.3
50°	9727.1	9719.2	9378.7	9244.1	9301.5	9390.6	10297.2	10794.0	10483.2	11178.0
52.5°	10412.0	10459.5	10342.7	10320.9	10613.9	10768.3	11872.8	12056.9	11379.9	12205.4
55°	10954.4	11009.8	11144.4	11296.8	11860.9	12062.9	13399.0	13254.5	12130.2	13096.1
57.5°	11722.4	11643.2	11851.0	12151.9	13064.5	13307.9	14877.6	14384.8	12733.9	13818.6
60°	12654.7	12666.6	12702.2	13082.3	14266.0	14578.8	16334.5	15453.7	13121.9	14262.0
62.5°	13775.1	13792.9	13866.1	14450.1	15879.3	16174.2	17886.4	16328.6	13300.0	14137.3
65°	13697.9	13773.1	14590.6	16587.9	18331.8	18622.8	19697.6	16942.2	13030.8	12997.2
67.5°	12478.5	12601.3	13969.1	19141.4	22029.5	22354.1	21886.9	17063.0	11868.9	10107.1
70°	10879.1	10922.7	12567.6	21437.6	26311.0	26639.6	23846.6	15734.8	9006.6	5637.5
72.5°	8495.9	8505.8	10435.7	21970.1	28634.9	28652.7	22308.6	11680.8	4843.7	2165.5
75°	6069.0	6009.7	6989.5	17817.2	25192.6	25394.5	16724.5	5479.2	1850.8	1023.4
77.5°	3254.2	3319.6	3955.0	10566.4	17403.4	17747.9	9125.3	1579.6	942.2	696.8
80°	1005.6	1061.0	1621.2	4837.8	9857.7	10065.6	3382.9	702.7	657.2	496.8
82.5°	316.7	328.6	756.2	2032.9	4091.6	4186.6	979.8	397.9	449.3	328.6
85°	91.1	93.0	336.5	758.1	1011.5	1031.3	275.1	154.4	257.3	203.9
87.5°	9.9	31.7	126.7	126.7	89.1	87.1	29.7	33.7	73.2	25.7
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°
3915.4	0°	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4
3933.2	2.5°	3923.3	3925.3	3899.5	3856.0	3808.5	3768.9	3719.4	3679.8	3652.1	3644.2
3968.8	5°	3951.0	3937.2	3863.9	3731.3	3572.9	3436.3	3283.9	3163.2	3084.0	3050.4
4006.4	7.5°	3992.6	3953.0	3792.7	3531.4	3228.5	2959.3	2686.1	2474.3	2339.7	2272.4
4042.1	10°	4028.2	3949.0	3673.9	3242.4	2779.2	2371.4	2003.2	1747.9	1605.3	1538.0
4083.6	12.5°	4061.9	3947.1	3519.5	2899.9	2272.4	1773.6	1431.2	1304.5	1264.9	1251.0
4150.9	15°	4125.2	3953.0	3325.5	2508.0	1767.7	1340.1	1215.4	1213.4	1221.3	1217.4
4253.9	17.5°	4212.3	3958.9	3105.8	2092.3	1363.9	1181.7	1175.8	1193.6	1205.5	1199.6
4382.5	20°	4325.1	3982.7	2872.2	1680.6	1171.8	1142.2	1156.0	1171.8	1181.7	1171.8
4554.7	22.5°	4483.5	4024.2	2616.9	1350.0	1110.5	1118.4	1130.3	1148.1	1158.0	1144.1
4774.5	25°	4677.5	4089.6	2365.5	1173.8	1080.8	1090.7	1108.5	1128.3	1140.2	1126.3
5051.6	27.5°	4928.9	4194.5	2133.9	1134.2	1051.1	1057.0	1082.8	1112.5	1128.3	1110.5
5445.5	30°	5293.1	4366.7	1933.9	1152.0	1033.3	1019.4	1055.1	1096.6	1114.4	1098.6
5981.9	32.5°	5776.1	4610.2	1811.2	1179.8	1025.4	975.9	1009.5	1063.0	1092.7	1082.8
6682.7	35°	6409.5	4980.3	1763.7	1211.4	1019.4	930.3	954.1	1011.5	1063.0	1072.9
7565.5	37.5°	7177.5	5495.0	1777.6	1225.3	1001.6	892.7	904.6	954.1	1021.4	1053.1
8559.2	40°	8050.5	6094.8	1856.7	1211.4	981.8	861.1	863.0	900.7	960.0	1007.5
9628.1	42.5°	8951.1	6795.5	2003.2	1160.0	964.0	833.4	827.4	853.1	892.7	926.4
10695.0	45°	9808.2	7516.0	2147.7	1088.7	942.2	805.6	791.8	801.7	809.6	823.5
11734.3	47.5°	10556.5	8022.8	2106.1	1023.4	912.5	774.0	750.2	746.3	722.5	720.5
12662.6	50°	11073.1	8133.6	1870.6	958.1	869.0	738.3	700.7	677.0	635.4	615.6
13357.4	52.5°	11237.4	7696.2	1528.1	892.7	797.7	690.8	637.4	599.8	548.3	530.5
13757.3	55°	11019.7	6839.0	1221.3	813.6	698.8	627.5	568.1	518.6	477.1	455.3
13800.8	57.5°	10487.2	5748.4	966.0	720.5	593.8	556.2	496.8	447.4	411.7	390.0
13317.8	60°	9604.4	4564.6	764.1	609.7	506.7	479.0	417.7	386.0	354.3	328.6
12070.8	62.5°	8264.3	3258.2	599.8	483.0	423.6	391.9	356.3	332.5	294.9	259.3
9828.0	65°	6449.1	1993.3	463.2	354.3	340.5	324.6	302.9	281.1	235.6	199.9
6411.5	67.5°	4067.8	944.2	330.6	267.2	269.2	261.3	251.4	233.6	199.9	168.3
2872.2	70°	1791.4	457.3	217.7	203.9	199.9	199.9	207.8	201.9	170.2	140.5
997.6	72.5°	609.7	245.5	162.3	154.4	144.5	142.5	174.2	168.3	136.6	108.9
496.8	75°	318.7	164.3	118.8	110.8	87.1	104.9	138.6	130.6	97.0	71.3
328.6	77.5°	207.8	116.8	81.2	71.3	49.5	69.3	102.9	91.1	57.4	35.6
215.8	80°	130.6	77.2	47.5	33.7	23.8	37.6	55.4	39.6	21.8	7.9
126.7	82.5°	69.3	39.6	17.8	11.9	9.9	11.9	13.9	9.9	4.0	0.0
65.3	85°	27.7	13.9	5.9	4.0	2.0	0.0	4.0	2.0	0.0	0.0
11.9	87.5°	9.9	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>
3915.4
3658.0
3062.2
2282.3
1540.0
1247.1
1215.4
1197.6
1169.9
1142.2
1124.3
1110.5
1096.6
1082.8
1072.9
1061.0
1023.4
940.2
831.4
718.5
617.6
528.5
455.3
386.0
322.7
253.4
194.0
164.3
134.6
<i>102.9</i>
65.3
31.7
5.9
0.0
0.0
0.0
0.0

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