

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: P949004

Luminaire Tested: **GALN-SB3D-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29596 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

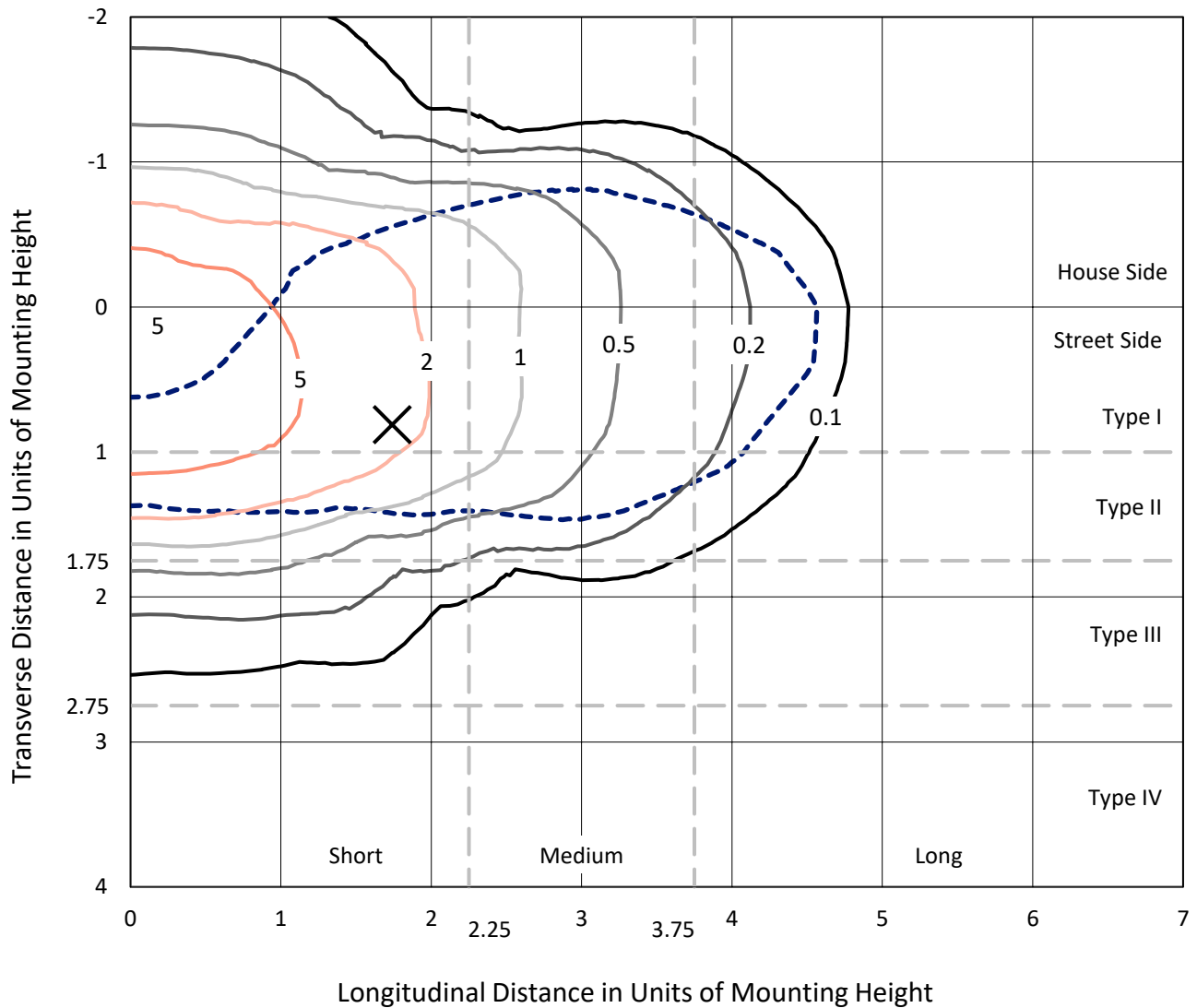
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

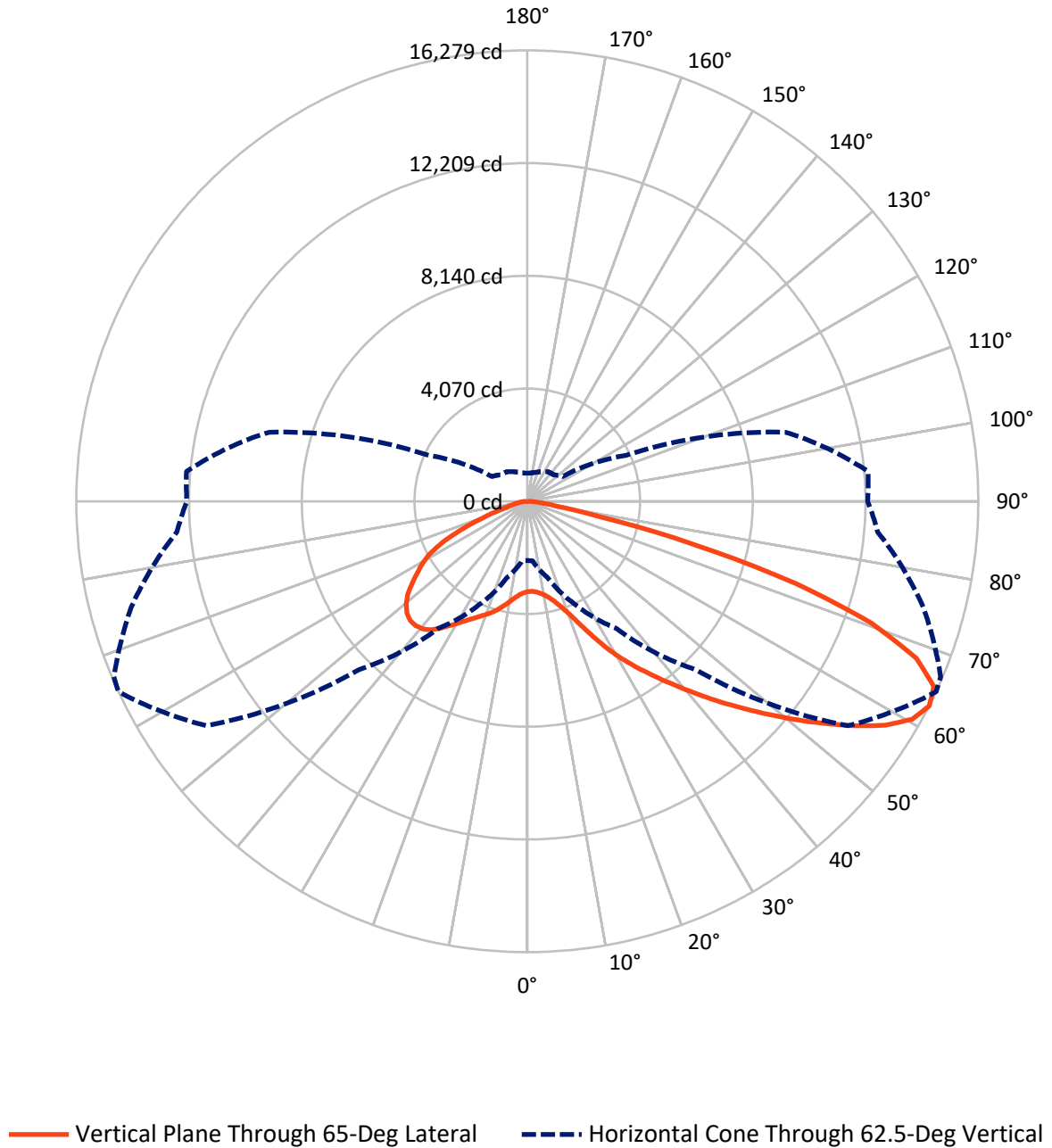
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9339.2	0.0	9339.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20256.8	0.0	20256.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	29596.0	0.0	29596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.2	1.1
10°-20°	1102.6	3.7
20°-30°	2235.7	7.6
30°-40°	3868.8	13.1
40°-50°	5854.7	19.8
50°-60°	6864.3	23.2
60°-70°	5754.9	19.4
70°-80°	3177.2	10.7
80°-90°	412.7	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°	29596.0	100.0
0°-180°	29596.0	100.0



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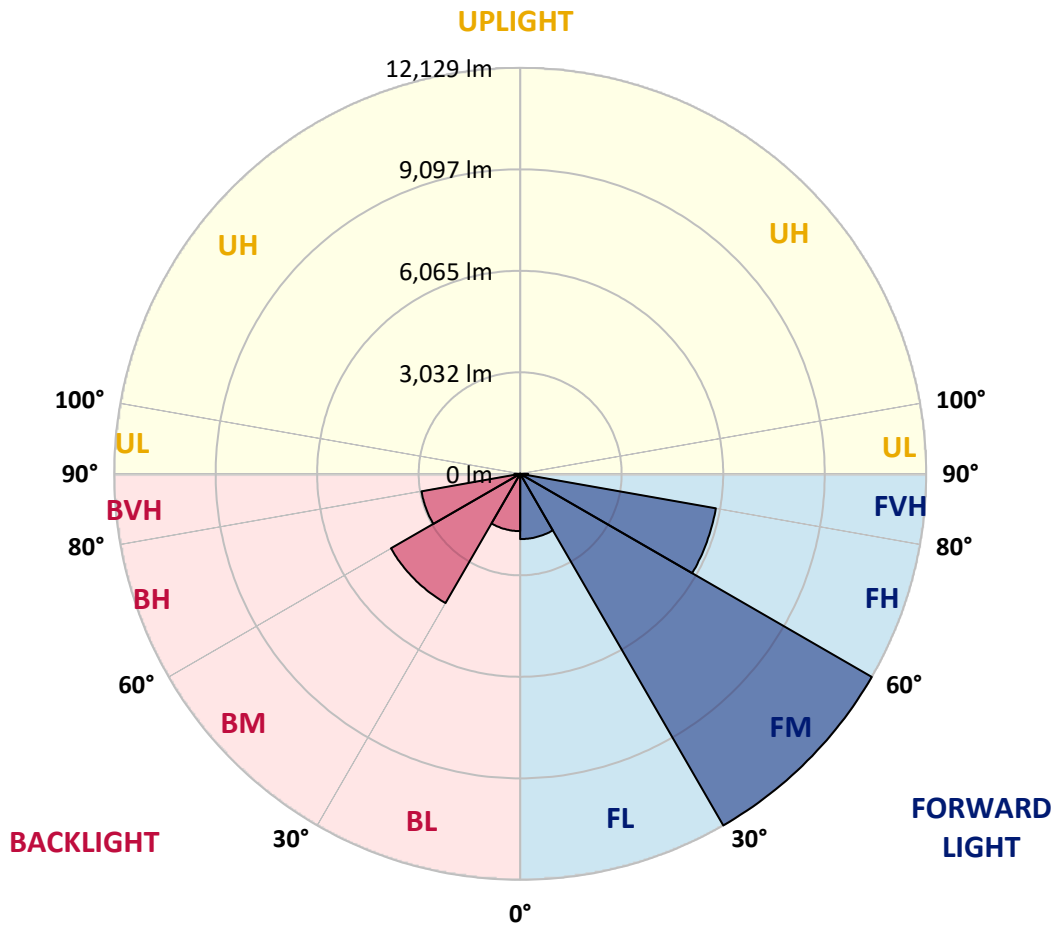
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.8	6.6			
FM (30°-60°)	12129.4	41.0			
FH (60°-80°)	5936.1	20.1			G3/7500
FVH (80°-90°)	240.5	0.8			G3/500
BL (0°-30°)	1712.7	5.8	B3/2500		
BM (30°-60°)	4458.4	15.1	B3/5000		
BH (60°-80°)	2995.9	10.1	B4/5000		G4/5000
BVH (80°-90°)	172.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3239.9	3230.6	3238.3	3238.3	3241.4	3239.9	3250.6	3253.7	3258.3	3267.5
5°	3207.6	3206.1	3219.9	3232.2	3244.5	3255.2	3269.0	3289.0	3292.1	3302.8
7.5°	3196.9	3187.6	3209.1	3224.5	3253.7	3279.8	3316.6	3350.4	3364.2	3368.8
10°	3279.8	3264.4	3284.4	3293.6	3318.2	3344.3	3387.3	3441.0	3456.4	3474.8
12.5°	3421.0	3404.2	3433.3	3447.1	3470.2	3493.2	3522.4	3574.6	3582.3	3616.0
15°	3614.5	3594.5	3613.0	3629.9	3668.3	3689.7	3718.9	3769.6	3769.6	3795.7
17.5°	3877.1	3851.0	3864.8	3870.9	3895.5	3927.7	3976.9	4021.4	4044.4	4035.2
20°	4268.6	4236.4	4236.4	4205.7	4196.5	4222.6	4287.0	4348.5	4373.0	4325.4
22.5°	4856.7	4810.6	4784.5	4680.1	4638.7	4641.7	4706.2	4781.5	4801.4	4717.0
25°	5604.5	5532.3	5497.0	5343.5	5249.8	5168.4	5219.1	5315.8	5343.5	5239.0
27.5°	6352.3	6356.9	6323.1	6138.8	5983.7	5834.8	5808.7	5910.0	5939.2	5821.0
30°	7401.0	7292.0	7227.5	7006.4	6785.3	6576.4	6469.0	6510.4	6518.1	6376.8
32.5°	8305.4	8277.8	8139.6	7946.1	7662.0	7335.0	7155.3	7089.3	7077.0	6875.9
35°	9335.7	9320.3	9174.5	8944.1	8637.1	8182.6	7858.6	7669.7	7654.3	7371.8
37.5°	10382.9	10382.9	10240.1	9988.3	9670.4	9102.3	8609.4	8310.0	8260.9	7892.3
40°	11218.2	11167.5	11193.6	11087.7	10723.8	10120.3	9443.2	9008.6	8942.6	8500.4
42.5°	11692.6	11675.8	11832.4	11950.6	11801.7	11319.5	10361.4	9765.6	9673.5	9169.9
45°	11798.6	11780.2	12059.6	12492.6	12701.5	12503.4	11359.5	10562.5	10450.4	9870.0
47.5°	11554.5	11517.6	11927.6	12610.9	13280.3	13628.9	12440.4	11427.0	11264.3	10551.8
50°	10820.5	10785.2	11405.5	12313.0	13475.3	14393.6	13613.5	12343.7	12094.9	11282.7
52.5°	9225.1	9242.0	10214.0	11460.8	13218.9	14869.5	14623.9	13309.5	13010.1	12030.5
55°	7186.0	7222.9	8417.5	9790.2	12193.2	14797.4	15313.3	14304.5	14006.6	12733.7
57.5°	5145.4	5308.1	6427.5	7786.4	10223.2	13653.5	15463.8	15250.3	14961.7	13501.4
60°	3335.1	3364.2	4515.8	5885.5	7784.9	11620.5	15158.2	15967.4	15741.7	14284.5
62.5°	2137.4	2157.3	2859.1	4116.6	5603.0	8597.1	14129.4	16279.1	16210.0	14802.0
65°	1570.8	1555.4	1920.9	2720.9	3774.2	5302.0	12131.8	16128.6	16265.3	15126.0
67.5°	1311.3	1289.8	1469.5	1884.0	2780.7	3011.1	8976.4	15150.5	15651.1	15089.1
70°	1194.6	1176.2	1285.2	1398.8	2169.6	2016.1	4525.0	13171.3	13942.1	14669.9
72.5°	1011.9	979.6	1128.6	1242.2	1687.5	1546.2	1870.2	10117.3	11057.0	13326.4
75°	784.6	763.1	890.6	1093.3	1268.3	1206.9	1182.3	6143.4	7169.1	10306.1
77.5°	621.9	592.7	709.4	852.2	1140.9	910.5	861.4	2645.6	3662.1	6579.5
80°	468.3	442.2	539.0	674.1	876.8	686.4	557.4	1079.4	1380.4	3333.5
82.5°	333.2	310.2	376.2	494.4	589.6	615.7	342.4	605.0	680.2	1285.2
85°	213.4	199.6	251.8	310.2	374.7	396.2	208.8	316.3	347.0	529.7
87.5°	116.7	95.2	135.1	144.3	173.5	158.2	99.8	115.2	124.4	191.9
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°
3261.4	0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
3267.5	2.5°	3273.6	3278.2	3293.6	3298.2	3309.0	3322.8	3332.0	3341.2	3341.2	3350.4
3316.6	5°	3318.2	3328.9	3361.2	3378.0	3405.7	3433.3	3450.2	3470.2	3482.5	3488.6
3394.9	7.5°	3404.2	3421.0	3467.1	3496.3	3543.9	3582.3	3608.4	3636.0	3642.1	3659.0
3504.0	10°	3520.8	3540.8	3593.0	3648.3	3705.1	3752.7	3777.3	3797.2	3804.9	3808.0
3643.7	12.5°	3654.4	3683.6	3751.2	3818.7	3878.6	3920.1	3926.2	3921.6	3900.1	3881.7
3815.7	15°	3818.7	3844.8	3920.1	3993.8	4052.1	4059.8	4021.4	3996.8	3970.7	3966.1
4007.6	17.5°	4015.3	4029.1	4098.2	4170.4	4175.0	4148.9	4092.0	4069.0	4044.4	4027.6
4257.9	20°	4244.1	4239.4	4288.6	4319.3	4287.0	4207.2	4121.2	4082.8	4058.3	4038.3
4565.0	22.5°	4517.4	4482.1	4475.9	4468.2	4382.2	4214.9	4098.2	4049.1	4010.7	3983.0
4993.4	25°	4915.1	4779.9	4686.3	4634.1	4440.6	4173.4	4024.5	3915.5	3843.3	3795.7
5517.0	27.5°	5412.6	5185.3	4948.8	4821.4	4440.6	4089.0	3846.4	3669.8	3551.6	3502.4
6023.7	30°	5887.0	5649.0	5300.5	5047.1	4429.8	3950.8	3559.2	3313.6	3175.4	3126.2
6456.7	32.5°	6292.4	6032.9	5673.6	5294.3	4403.7	3726.6	3203.0	2931.2	2797.6	2739.3
6885.1	35°	6668.6	6392.2	6048.2	5566.1	4334.6	3398.0	2811.5	2604.2	2455.2	2361.6
7321.1	37.5°	7054.0	6725.4	6402.9	5811.8	4210.3	3014.1	2510.5	2333.9	2158.9	2033.0
7784.9	40°	7473.2	7080.1	6782.2	5957.6	4006.1	2648.7	2277.1	2115.9	1930.1	1796.5
8319.2	42.5°	7963.0	7505.4	7204.5	6032.9	3726.6	2389.2	2125.1	1966.9	1791.9	1682.9
8891.9	45°	8474.3	7973.7	7589.9	6031.3	3414.9	2267.9	2076.0	1919.3	1725.9	1612.2
9480.0	47.5°	9010.2	8463.5	7923.1	5933.1	3144.7	2284.8	2048.3	1816.5	1603.0	1492.5
10074.3	50°	9547.6	8999.4	8245.5	5748.8	3029.5	2247.9	1945.4	1672.1	1420.3	1320.5
10631.6	52.5°	10080.4	9569.1	8523.4	5486.3	2912.8	2111.3	1813.4	1484.8	1345.1	1276.0
11207.4	55°	10616.3	10132.6	8825.9	5103.9	2621.1	1951.6	1592.3	1414.2	1285.2	1222.2
11771.0	57.5°	11153.7	10783.6	9113.0	4721.6	2254.1	1755.0	1471.0	1328.2	1225.3	1171.6
12242.3	60°	11712.6	11528.4	9409.4	4370.0	1891.7	1503.2	1381.9	1259.1	1154.7	1094.8
12695.3	62.5°	12288.4	12348.3	9641.3	3917.0	1558.5	1349.7	1302.1	1176.2	1074.8	1018.0
13070.0	65°	12868.8	13139.1	9793.3	3289.0	1263.7	1203.8	1216.1	1085.6	982.7	933.6
13344.8	67.5°	13306.4	13708.7	9750.3	2489.0	1036.4	1065.6	1108.6	990.4	893.6	855.3
13300.3	70°	13355.6	13641.2	9326.5	1704.4	867.5	930.5	988.8	896.7	796.9	769.3
12673.8	72.5°	12701.5	12719.9	8145.7	1113.2	734.0	816.9	862.9	801.5	704.8	677.1
11087.7	75°	10986.3	10519.5	5980.7	734.0	614.2	701.7	744.7	701.7	608.0	614.2
8296.2	77.5°	8323.8	7450.1	3631.4	522.1	512.8	589.6	648.0	617.3	537.4	603.4
4171.9	80°	4288.6	4030.6	1619.9	390.0	405.4	471.4	532.8	492.9	425.3	405.4
932.0	82.5°	982.7	1142.4	638.8	279.5	293.3	339.3	406.9	370.0	305.6	258.0
388.5	85°	343.9	376.2	282.5	175.0	172.0	211.9	276.4	247.2	207.3	165.8
164.3	87.5°	109.0	142.8	105.9	70.6	73.7	95.2	127.4	116.7	96.7	63.0
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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180°
3261.4
3350.4
3491.7
3652.9
3800.3
3881.7
3966.1
4029.1
4039.8
3992.2
3814.1
3527.0
3155.4
2768.5
2392.3
2066.8
1822.6
1704.4
1630.7
1507.8
1326.7
1276.0
1216.1
1162.4
1090.2
1016.5
932.0
856.8
770.8
675.6
592.7
531.3
370.0
254.9
175.0
66.0
0.0

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