

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: P942392

Luminaire Tested: **GALN-SB6B-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32377 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

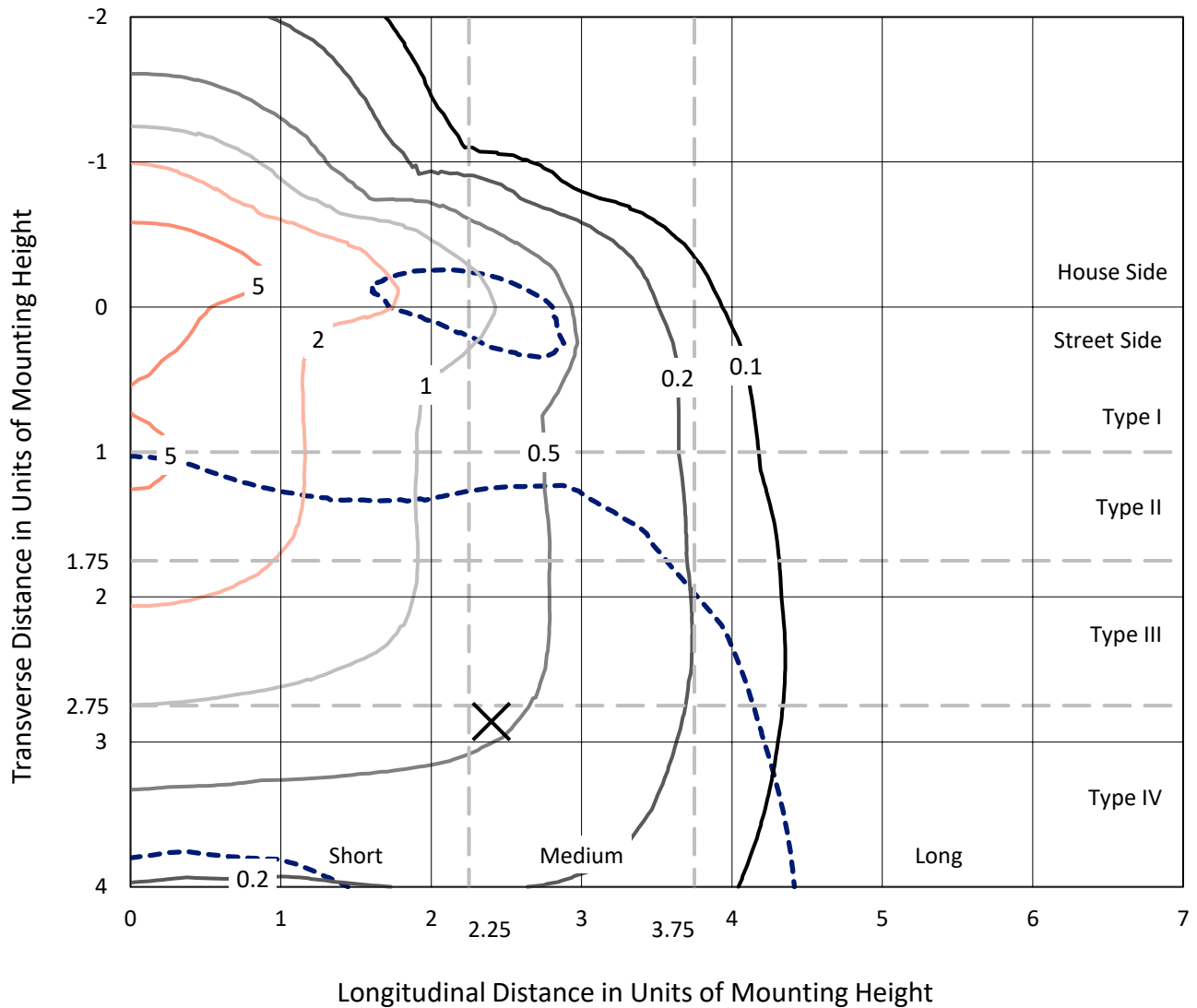
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

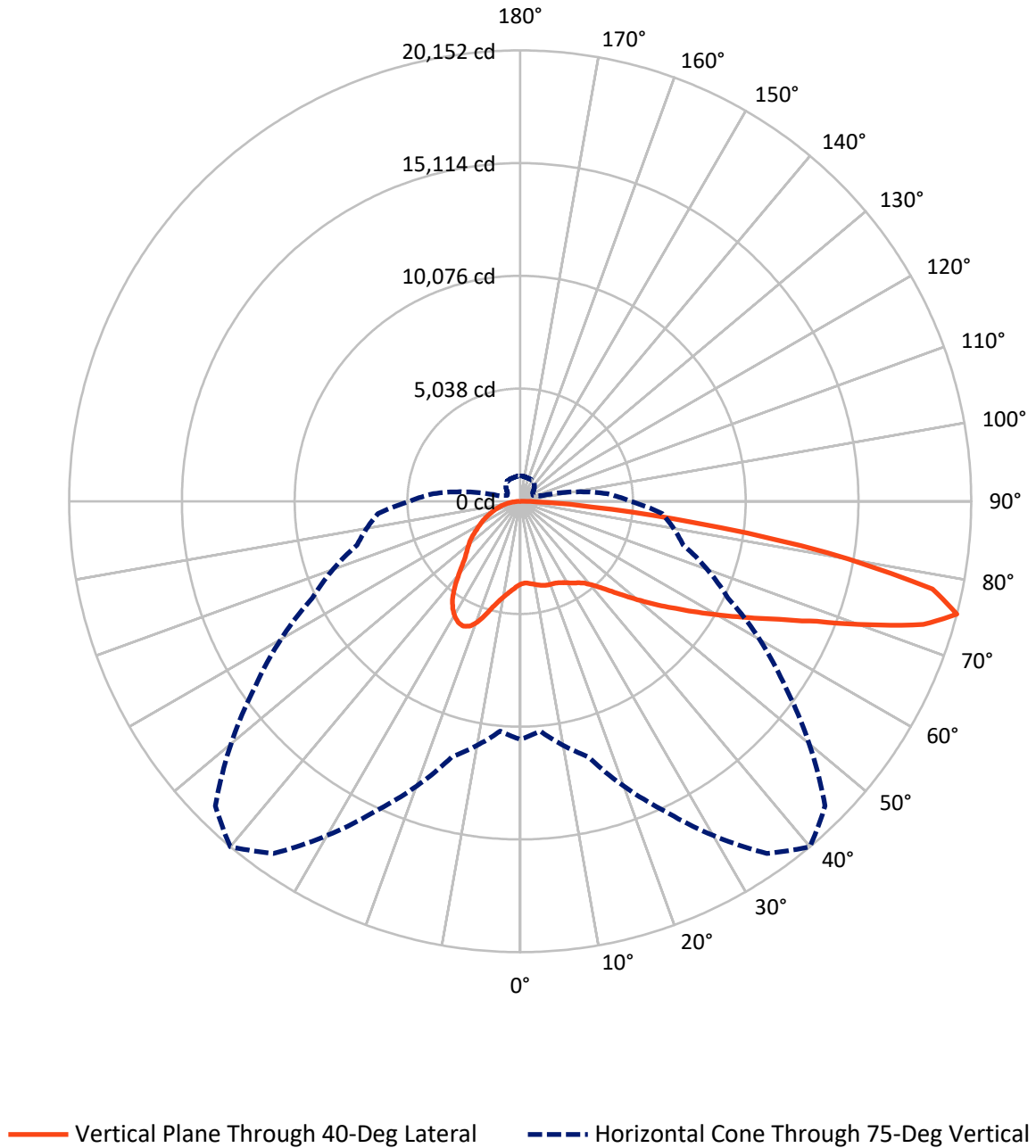
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10031.5	0.0	10031.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22345.5	0.0	22345.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	32377.0	0.0	32377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.1
10°-20°	1240.8	3.8
20°-30°	2265.6	7.0
30°-40°	3213.2	9.9
40°-50°	4338.8	13.4
50°-60°	5836.9	18.0
60°-70°	7408.4	22.9
70°-80°	6723.6	20.8
80°-90°	980.1	3.0
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°	32377.0	100.0
0°-180°	32377.0	100.0

Coefficient of Utilization



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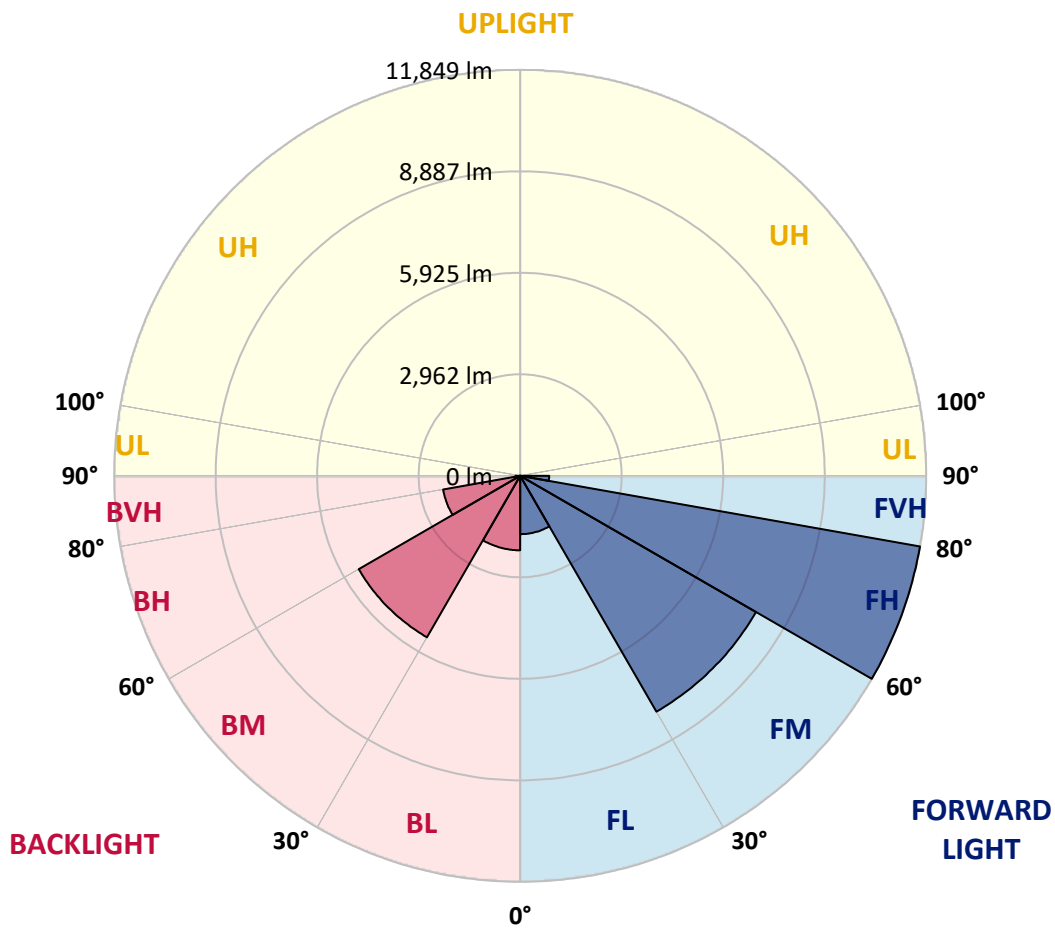
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.1	5.3			
FM (30°-60°)	7947.8	24.5			
FH (60°-80°)	11849.5	36.6			G4/12000
FVH (80°-90°)	845.1	2.6			G5
BL (0°-30°)	2172.9	6.7	B3/2500		
BM (30°-60°)	5441.2	16.8	B4/8500		
BH (60°-80°)	2282.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	134.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4
2.5°	3645.7	3666.3	3661.1	3654.3	3654.3	3656.0	3654.3	3666.3	3678.3	3690.3
5°	3683.5	3704.1	3693.8	3685.2	3678.3	3676.6	3671.4	3669.7	3676.6	3692.0
7.5°	3757.3	3777.9	3762.5	3747.0	3733.3	3726.4	3719.5	3709.2	3704.1	3712.7
10°	3839.7	3860.3	3841.4	3814.0	3791.6	3783.1	3776.2	3765.9	3759.0	3764.2
12.5°	3922.2	3942.8	3917.0	3879.2	3850.0	3844.9	3836.3	3832.9	3831.1	3829.4
15°	3999.4	4016.6	3984.0	3939.3	3908.4	3899.8	3891.2	3896.4	3905.0	3915.3
17.5°	4059.5	4076.7	4028.6	3970.2	3941.0	3937.6	3932.5	3949.6	3973.7	3999.4
20°	4114.5	4131.7	4069.8	3990.8	3956.5	3956.5	3958.2	3994.3	4028.6	4066.4
22.5°	4191.8	4205.5	4129.9	4021.8	3972.0	3975.4	3989.1	4025.2	4068.1	4119.6
25°	4306.8	4317.1	4224.4	4080.1	4023.5	4033.8	4045.8	4063.0	4104.2	4164.3
27.5°	4492.3	4500.9	4378.9	4183.2	4097.3	4114.5	4131.7	4119.6	4138.5	4190.0
30°	4753.3	4758.5	4603.9	4344.6	4222.7	4231.3	4234.7	4184.9	4148.8	4190.0
32.5°	5062.4	5060.7	4876.9	4540.4	4365.2	4356.6	4327.4	4229.5	4145.4	4181.5
35°	5541.5	5522.6	5285.6	4815.1	4526.6	4473.4	4404.7	4279.3	4162.6	4172.9
37.5°	6334.9	6276.5	5948.5	5265.0	4767.0	4631.4	4530.1	4360.1	4200.4	4169.4
40°	7229.5	7155.7	6795.1	5881.5	5127.7	4909.6	4746.4	4475.1	4262.2	4184.9
42.5°	8290.8	8186.0	7798.0	6607.9	5584.4	5268.5	5022.9	4621.1	4353.2	4234.7
45°	9594.2	9455.1	8905.6	7427.0	6159.7	5739.0	5411.0	4842.6	4492.3	4330.9
47.5°	10911.3	10945.6	10164.3	8364.6	6850.0	6319.4	5897.0	5175.7	4694.9	4485.4
50°	12310.8	12334.9	11416.2	9403.6	7633.1	6975.4	6443.1	5548.4	4976.5	4705.2
52.5°	13403.0	13406.4	12553.0	10490.6	8448.8	7696.6	7032.1	5974.3	5302.8	4997.1
55°	14086.5	14077.9	13349.8	11519.2	9386.4	8453.9	7684.6	6458.5	5701.2	5340.6
57.5°	14582.7	14557.0	13899.3	12403.6	10385.8	9348.6	8423.0	7008.0	6171.7	5749.3
60°	14771.6	14756.2	14271.9	13167.7	11436.8	10337.7	9274.8	7622.8	6705.8	6231.8
62.5°	14843.8	14872.9	14637.7	13907.9	12561.6	11433.3	10210.7	8357.8	7306.8	6777.9
65°	15097.9	15151.1	15103.1	14876.4	13832.3	12716.1	11452.2	9231.8	7962.8	7363.5
67.5°	15601.1	15654.3	15674.9	16035.5	15384.7	14314.8	13001.2	10320.6	8730.4	7971.4
70°	15589.0	15573.6	15937.6	16957.7	17328.6	16528.4	15089.3	11660.0	9645.7	8476.3
72.5°	14189.5	14065.9	14926.2	16947.4	18946.2	18839.8	17639.4	13387.5	10435.6	8538.1
75°	10645.1	10315.4	11835.2	15273.1	19215.8	20151.7	19260.5	14459.1	10248.4	7543.8
77.5°	4552.4	4221.0	6012.0	11306.3	17198.1	18838.0	17773.4	12614.8	8180.9	4988.6
80°	1191.8	1190.0	1816.8	5125.9	11696.1	13911.3	12204.4	8146.6	4674.3	1782.5
82.5°	492.8	480.8	668.0	1993.7	5714.9	7806.5	6370.9	3633.7	1688.0	482.5
85°	183.7	182.0	324.6	688.6	2016.0	3219.8	2330.3	929.0	420.7	235.3
87.5°	51.5	49.8	70.4	238.7	491.1	745.3	398.4	152.8	118.5	92.7
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°
3702.4	0°	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4	3702.4
3709.2	2.5°	3714.4	3723.0	3738.4	3750.4	3765.9	3783.1	3807.1	3822.6	3838.0	3848.3
3717.8	5°	3729.8	3748.7	3788.2	3827.7	3874.1	3917.0	3966.8	4002.9	4032.1	4040.6
3748.7	7.5°	3764.2	3795.1	3862.1	3929.0	4002.9	4073.3	4145.4	4207.2	4257.0	4275.9
3803.7	10°	3824.3	3865.5	3959.9	4054.4	4152.3	4260.5	4353.2	4442.5	4512.9	4542.1
3868.9	12.5°	3899.8	3951.4	4075.0	4205.5	4341.2	4490.6	4610.8	4720.7	4808.3	4847.7
3959.9	15°	3997.7	4064.7	4222.7	4397.8	4597.0	4804.8	4957.6	5079.6	5177.5	5225.5
4054.4	17.5°	4104.2	4193.5	4392.7	4657.1	4942.2	5215.2	5393.8	5483.1	5584.4	5630.8
4142.0	20°	4207.2	4317.1	4602.2	4986.8	5366.4	5656.6	5800.8	5824.9	5831.7	5836.9
4224.4	22.5°	4313.7	4461.4	4864.9	5402.4	5809.4	6010.3	6030.9	5927.9	5783.6	5716.7
4305.1	25°	4430.5	4626.2	5208.4	5860.9	6190.6	6214.7	6056.7	5806.0	5532.9	5407.6
4370.4	27.5°	4543.8	4816.8	5620.5	6298.8	6465.4	6254.2	5914.1	5558.7	5229.0	5096.7
4416.7	30°	4657.1	5034.9	6075.6	6681.8	6590.7	6156.3	5689.2	5292.5	4961.1	4822.0
4457.9	32.5°	4772.2	5289.1	6599.3	6958.2	6568.4	5948.5	5409.3	4993.7	4701.8	4555.8
4494.0	35°	4902.7	5601.6	7095.6	7109.3	6419.0	5642.8	5040.1	4636.5	4382.4	4265.6
4536.9	37.5°	5072.7	5998.3	7533.5	7147.1	6158.0	5194.6	4581.6	4214.1	4004.6	3951.4
4600.5	40°	5283.9	6475.7	7868.4	7087.0	5771.6	4650.3	4080.1	3786.5	3668.0	3680.0
4686.3	42.5°	5558.7	7009.7	8103.6	6932.5	5234.1	4088.7	3640.5	3510.0	3566.7	3614.8
4815.1	45°	5915.9	7564.4	8249.6	6669.7	4626.2	3613.1	3381.2	3412.1	3455.1	3460.2
5022.9	47.5°	6372.6	8125.9	8345.7	6273.1	4006.3	3278.2	3216.4	3223.2	3214.7	3178.6
5333.7	50°	6942.8	8672.0	8431.6	5747.6	3479.1	3068.7	2986.3	2962.2	2843.7	2727.0
5747.6	52.5°	7591.9	9173.5	8467.7	5095.0	3068.7	2893.5	2759.6	2608.5	2387.0	2350.9
6267.9	55°	8313.1	9637.1	8374.9	4293.1	2723.5	2668.6	2465.9	2283.9	2259.9	2229.0
6953.1	57.5°	9175.2	10136.8	8186.0	3398.4	2369.8	2405.8	2208.4	2229.0	2186.0	2138.0
7834.0	60°	10117.9	10653.7	7854.6	2582.7	2004.0	2077.9	2141.4	2139.7	2127.7	2088.2
8763.0	62.5°	10966.2	10993.7	7202.1	1978.3	1682.9	1823.7	1997.1	1995.4	1985.1	1962.8
9733.3	65°	11471.1	10942.2	6113.3	1557.5	1418.4	1614.2	1801.4	1815.1	1816.8	1815.1
10463.1	67.5°	11381.8	10339.5	4619.4	1239.8	1200.3	1401.3	1607.3	1626.2	1640.0	1643.4
10555.8	70°	10372.1	9015.5	3012.0	989.1	1006.3	1214.1	1423.6	1442.5	1454.5	1468.2
9159.7	72.5°	8084.7	6628.5	1724.1	800.2	836.3	1052.7	1241.6	1263.9	1270.8	1296.5
6374.4	75°	4926.7	3898.1	930.7	630.2	686.9	899.8	1061.2	1087.0	1099.0	1129.9
3130.5	77.5°	2342.3	1688.0	530.6	491.1	552.9	735.0	896.4	925.6	893.0	910.1
863.8	80°	791.6	626.8	334.9	374.4	422.4	573.6	717.8	747.0	678.3	674.9
286.8	82.5°	276.5	254.2	212.9	249.0	273.0	410.4	542.6	580.4	504.9	503.1
128.8	85°	108.2	103.0	118.5	135.7	163.1	252.4	357.2	376.1	310.8	250.7
37.8	87.5°	22.3	24.0	29.2	30.9	49.8	87.6	128.8	158.0	125.4	106.5
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>
3702.4
3841.4
4044.1
4277.6
4543.8
4847.7
5222.1
5629.1
5850.6
5735.6
5426.5
5112.2
4837.4
4574.7
4291.4
3989.1
3721.2
3659.4
3494.6
3206.1
2742.4
2362.9
2234.1
2129.4
2074.4
1954.2
1815.1
1646.8
1475.1
1306.8
1133.4
896.4
668.0
479.1
247.3
97.9
0.0

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