

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: P953963

Luminaire Tested: **GALN-SB7B-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953963
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-SB7B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 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: 28612 lumens
Efficiency: N/A
Efficacy: 111.5 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

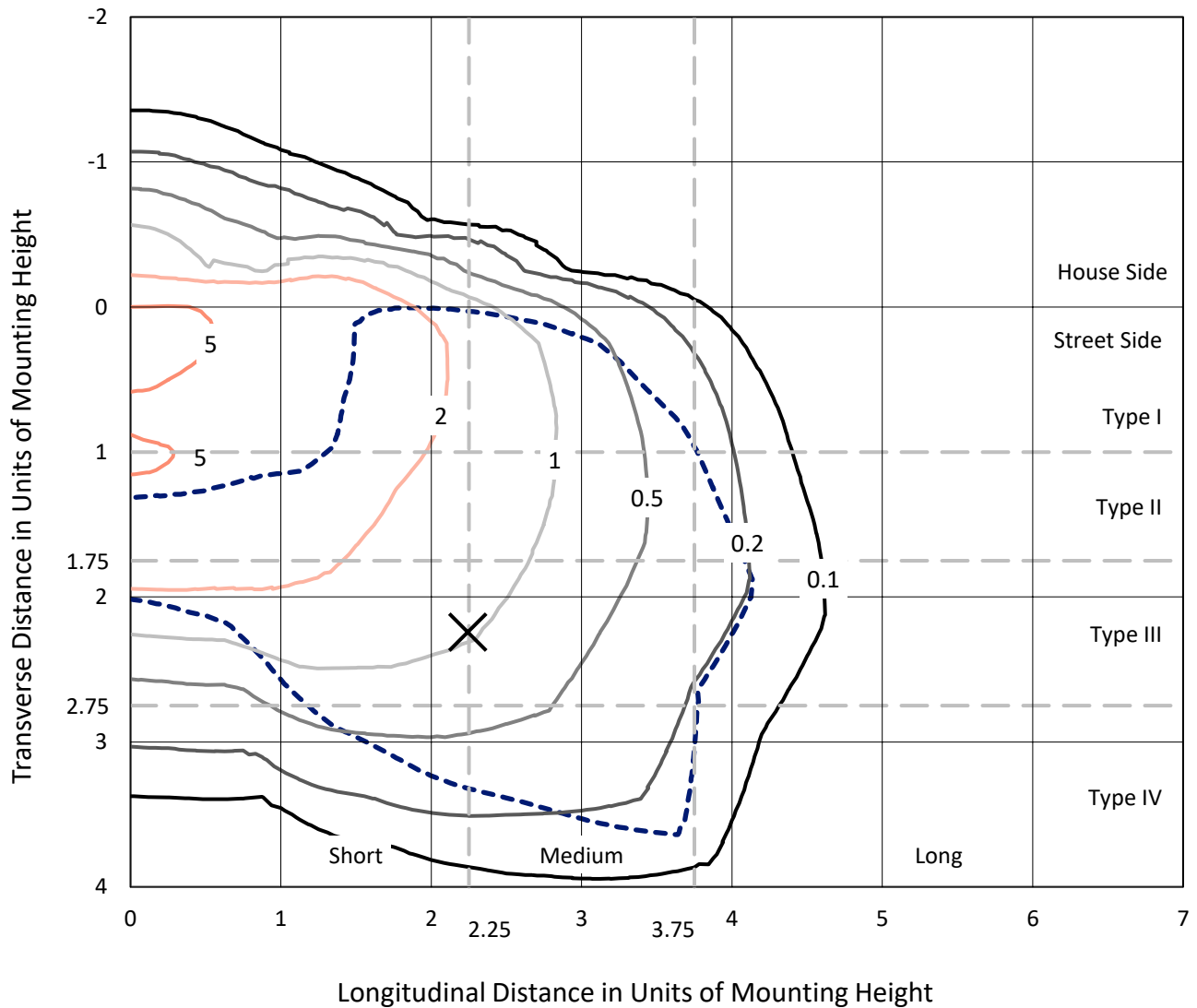
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

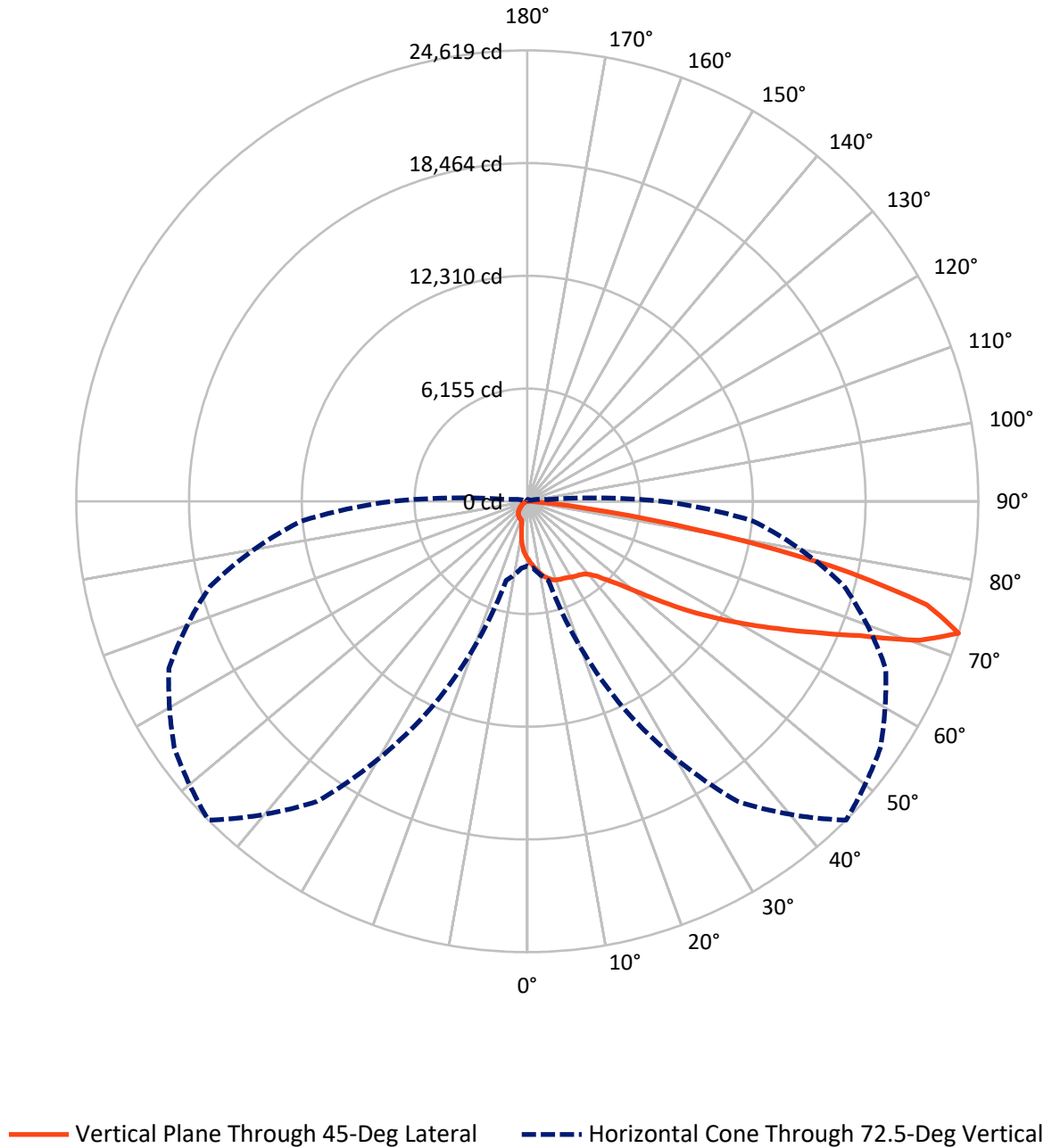
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3006.3	0.0	3006.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25605.7	0.0	25605.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	28612.0	0.0	28612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.0
10°-20°	863.1	3.0
20°-30°	1417.4	5.0
30°-40°	2010.2	7.0
40°-50°	3322.7	11.6
50°-60°	5968.8	20.9
60°-70°	8288.0	29.0
70°-80°	6011.8	21.0
80°-90°	434.6	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°	28612.0	100.0
0°-180°	28612.0	100.0

Coefficient of Utilization



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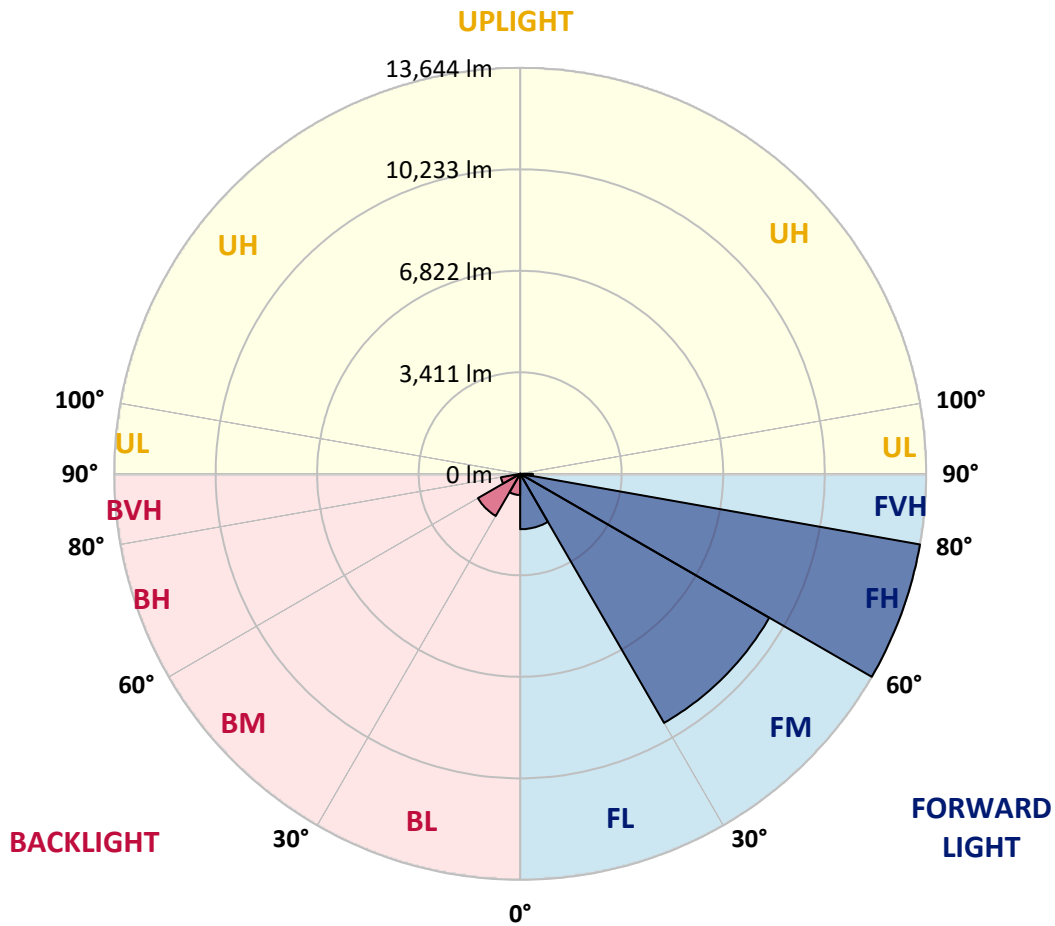
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.8	6.5			
FM (30°-60°)	9666.7	33.8			
FH (60°-80°)	13644.2	47.7			G5
FVH (80°-90°)	431.0	1.5			G3/500
BL (0°-30°)	712.1	2.5	B2/1000		
BM (30°-60°)	1635.0	5.7	B2/2500		
BH (60°-80°)	655.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.7	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°	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5
2.5°	3423.5	3429.4	3425.5	3402.1	3363.0	3341.5	3329.8	3290.7	3265.4	3220.4
5°	3738.0	3761.4	3747.7	3700.9	3626.7	3573.9	3558.3	3478.2	3406.0	3322.0
7.5°	4071.9	4083.6	4058.3	3997.7	3898.1	3808.3	3794.6	3683.3	3568.1	3439.2
10°	4361.0	4374.6	4335.6	4247.7	4134.4	4023.1	4003.6	3880.5	3743.8	3585.6
12.5°	4603.1	4616.8	4566.0	4460.6	4335.6	4220.4	4200.8	4071.9	3921.5	3745.8
15°	4786.7	4812.1	4743.7	4630.5	4495.7	4380.5	4370.7	4243.8	4097.3	3902.0
17.5°	4894.1	4919.5	4855.1	4718.4	4603.1	4505.5	4493.8	4388.3	4251.6	4064.1
20°	4911.7	4935.1	4866.8	4747.7	4652.0	4573.8	4568.0	4491.8	4392.2	4212.5
22.5°	4859.0	4888.3	4825.8	4730.1	4663.7	4622.7	4614.9	4571.9	4515.3	4362.9
25°	4804.3	4827.7	4780.9	4696.9	4661.7	4657.8	4663.7	4655.9	4644.1	4515.3
27.5°	4800.4	4825.8	4773.0	4693.0	4673.4	4714.5	4720.3	4757.4	4767.2	4653.9
30°	4833.6	4851.2	4800.4	4716.4	4706.6	4800.4	4802.3	4868.7	4884.4	4771.1
32.5°	4905.8	4925.4	4874.6	4751.6	4737.9	4868.7	4874.6	4962.5	4987.9	4896.1
35°	5075.8	5099.2	5040.6	4849.2	4800.4	4933.2	4950.8	5054.3	5105.0	5028.9
37.5°	5499.5	5431.2	5351.1	5046.5	4942.9	5034.7	5064.0	5185.1	5275.0	5187.1
40°	6552.2	6337.4	6087.4	5382.4	5192.9	5251.5	5275.0	5396.0	5519.1	5433.1
42.5°	8132.1	7878.3	7475.9	6155.7	5569.9	5599.1	5616.7	5722.2	5896.0	5827.6
45°	9540.2	9448.4	9038.3	7475.9	6274.9	6130.4	6151.8	6206.5	6462.4	6437.0
47.5°	10622.2	10569.4	10253.1	8991.4	7466.2	6780.7	6841.2	6866.6	7235.7	7325.6
50°	11454.1	11434.6	11151.4	10339.0	9022.7	7739.6	7761.1	7706.4	8259.1	8481.7
52.5°	12239.2	12305.6	12096.7	11590.8	10684.7	8995.3	8991.4	8733.7	9479.7	9815.6
55°	12948.1	12971.6	12993.1	12868.1	12356.4	10424.9	10387.8	9966.0	10895.6	11243.2
57.5°	13614.1	13623.9	13815.3	14071.1	14096.5	11959.9	11891.6	11385.8	12442.3	12690.4
60°	14061.3	14106.3	14510.5	15221.4	15531.9	13543.8	13506.7	12991.1	14016.4	14131.6
62.5°	13416.9	13690.3	14709.7	16119.8	16887.3	15299.5	15281.9	14797.6	15672.5	15578.8
65°	10860.4	11323.3	13116.1	16727.1	18217.2	17260.3	17285.7	16770.1	17373.6	17068.9
67.5°	7597.0	8085.3	10206.2	16776.0	19703.4	19562.8	19709.3	18900.8	19180.0	18496.5
70°	5253.5	5505.4	6886.1	15725.3	20861.5	22734.4	22730.5	21517.7	20976.8	19146.8
72.5°	3532.9	3663.8	4472.3	12475.5	20010.1	24619.1	24505.8	23517.6	21582.2	17906.7
75°	1490.1	1585.8	2070.1	7011.1	15830.7	22523.5	22216.9	20783.4	19176.1	14100.4
77.5°	472.6	513.6	816.3	2509.6	8720.0	16930.2	16606.0	12979.4	12852.4	7073.6
80°	224.6	261.7	458.9	1007.7	3431.4	9208.2	9163.3	5888.2	5528.8	1910.0
82.5°	97.6	115.2	253.9	539.0	1535.0	3284.9	3351.3	2003.7	1658.1	724.5
85°	31.2	41.0	117.2	248.0	648.4	816.3	806.6	476.5	667.9	394.5
87.5°	0.0	0.0	39.1	56.6	66.4	46.9	52.7	41.0	185.5	109.4
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°
3134.5	0°	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5
3173.6	2.5°	3150.1	3118.9	3064.2	3013.4	2968.5	2923.6	2896.2	2857.2	2853.3	2853.3
3224.3	5°	3171.6	3120.8	3023.2	2919.7	2800.5	2687.3	2574.0	2464.6	2429.5	2404.1
3306.4	7.5°	3234.1	3154.0	2999.8	2802.5	2576.0	2327.9	2154.1	1966.6	1894.4	1855.3
3415.7	10°	3323.9	3214.6	2980.2	2634.5	2267.4	1929.5	1681.5	1478.4	1400.3	1367.1
3534.9	12.5°	3423.5	3288.8	2945.1	2425.6	1929.5	1525.3	1283.1	1189.4	1177.6	1177.6
3677.4	15°	3542.7	3378.6	2884.5	2179.5	1576.0	1206.9	1121.0	1124.9	1136.6	1144.4
3816.1	17.5°	3665.7	3474.3	2788.8	1904.1	1263.6	1085.8	1087.8	1093.7	1103.4	1111.2
3966.5	20°	3798.5	3570.0	2661.9	1611.2	1083.9	1050.7	1056.6	1062.4	1070.2	1074.1
4107.1	22.5°	3941.1	3659.9	2511.5	1324.1	1023.4	1021.4	1023.4	1029.2	1039.0	1039.0
4271.1	25°	4093.4	3759.5	2339.6	1115.1	992.1	992.1	996.0	999.9	1007.7	1007.7
4429.3	27.5°	4249.6	3851.2	2158.0	1005.8	964.8	962.8	962.8	968.7	972.6	974.5
4585.6	30°	4421.5	3958.7	1976.4	982.3	943.3	933.5	927.7	931.6	935.5	937.4
4749.6	32.5°	4597.3	4062.2	1814.3	992.1	921.8	904.2	884.7	880.8	880.8	888.6
4919.5	35°	4792.6	4175.4	1689.3	1025.3	910.1	861.3	830.0	812.4	814.4	826.1
5122.6	37.5°	5026.9	4312.1	1597.5	1054.6	902.3	812.4	761.7	740.2	726.5	740.2
5401.9	40°	5333.5	4513.3	1531.1	1078.0	892.5	755.8	687.4	652.3	626.9	634.7
5835.5	42.5°	5784.7	4829.7	1505.7	1080.0	871.0	689.4	611.3	564.4	527.3	529.3
6487.7	45°	6417.4	5329.6	1636.6	1054.6	824.2	617.1	531.2	468.7	445.3	439.4
7462.3	47.5°	7284.6	6058.1	1939.3	1001.9	755.8	546.8	453.1	400.4	382.8	373.0
8741.5	50°	8446.6	6993.6	2275.2	943.3	687.4	480.4	388.6	355.4	343.7	334.0
10258.9	52.5°	9794.1	7942.7	2550.6	884.7	619.1	421.8	347.6	328.1	318.3	310.5
11723.6	55°	11030.3	8596.9	2534.9	822.2	552.7	375.0	318.3	306.6	294.9	287.1
12985.3	57.5°	11799.8	8688.7	2089.7	753.8	476.5	337.9	291.0	283.2	269.5	259.7
14077.0	60°	12153.3	8165.3	1464.7	664.0	400.4	302.7	261.7	257.8	240.2	226.5
15110.1	62.5°	12217.7	7192.8	976.5	552.7	334.0	269.5	232.4	226.5	203.1	179.7
15949.8	65°	11956.0	5802.3	675.7	431.6	285.1	234.4	199.2	187.5	162.1	138.7
16149.1	67.5°	11128.0	4073.9	470.7	310.5	242.2	185.5	158.2	154.3	134.8	115.2
15133.5	70°	9610.5	2322.1	314.4	232.4	191.4	126.9	125.0	128.9	109.4	93.7
12364.2	72.5°	7368.5	1062.4	195.3	169.9	130.8	85.9	99.6	101.6	84.0	70.3
7714.2	75°	4337.5	455.0	123.0	109.4	66.4	56.6	72.3	74.2	56.6	44.9
2820.1	77.5°	1476.4	171.9	78.1	64.4	33.2	31.2	46.9	46.9	31.2	17.6
566.4	80°	335.9	64.4	39.1	25.4	15.6	13.7	15.6	13.7	7.8	2.0
173.8	82.5°	95.7	25.4	15.6	9.8	5.9	5.9	2.0	0.0	0.0	0.0
60.5	85°	27.3	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.5	87.5°	11.7	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>
3134.5
2863.0
2415.8
1861.2
1367.1
1177.6
1144.4
1111.2
1076.1
1042.9
1009.7
976.5
941.3
894.5
832.0
736.3
630.8
521.4
431.6
367.2
332.0
308.6
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