

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: P954971

Luminaire Tested: **GALN-SB8A-760-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954971
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-SB8A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 350mA 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: 29560 lumens
Efficiency: N/A
Efficacy: 130.2 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

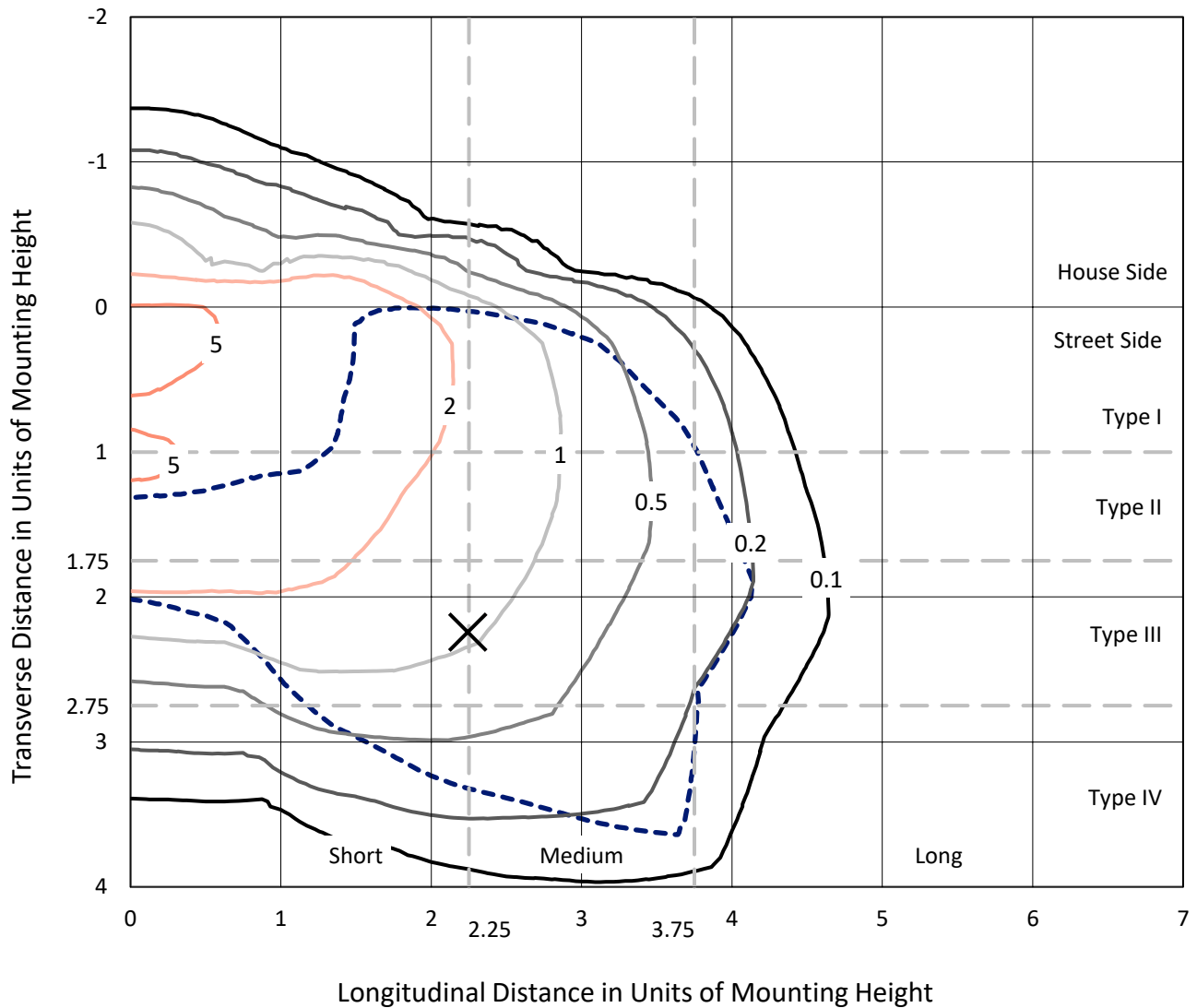
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

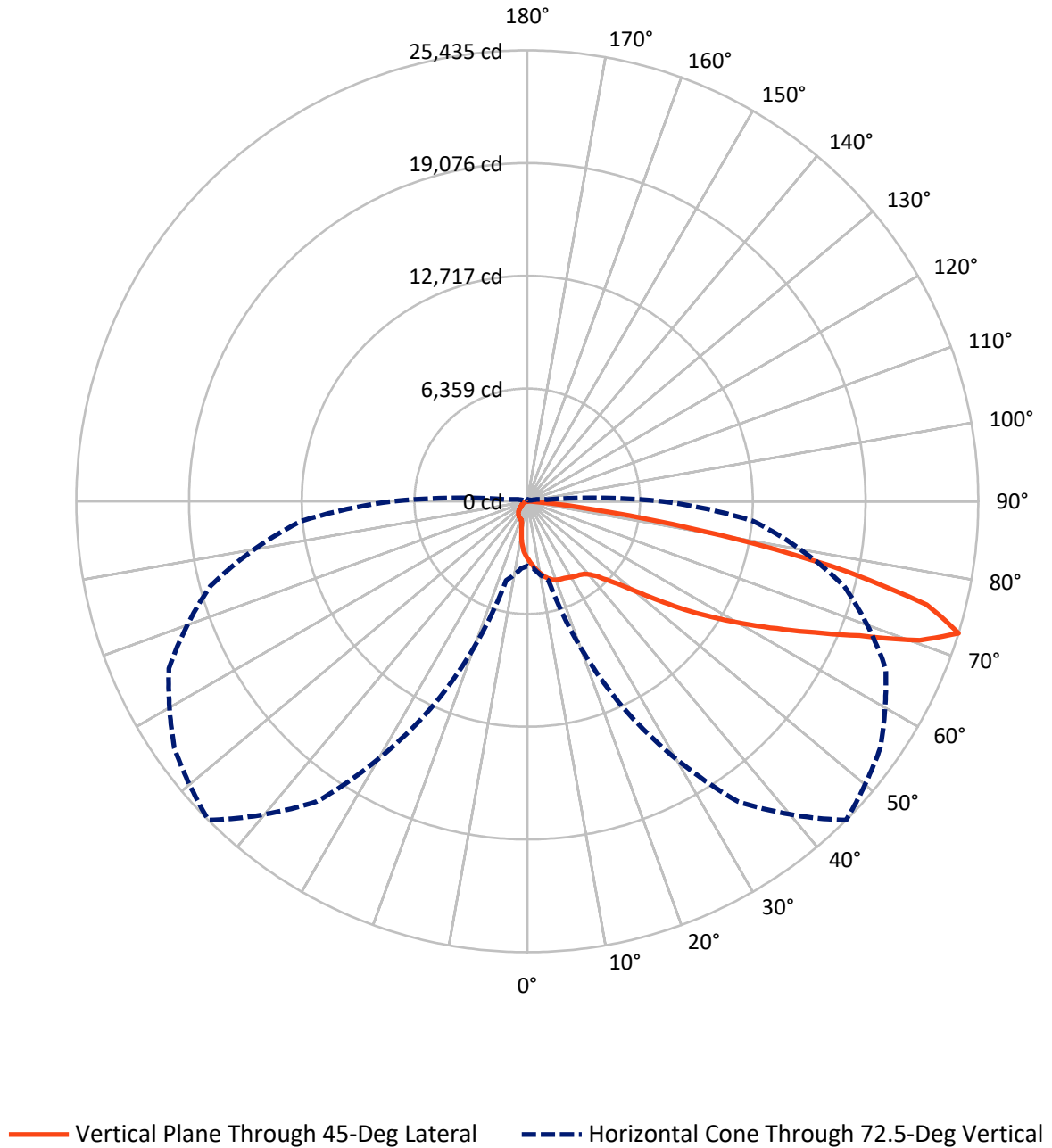
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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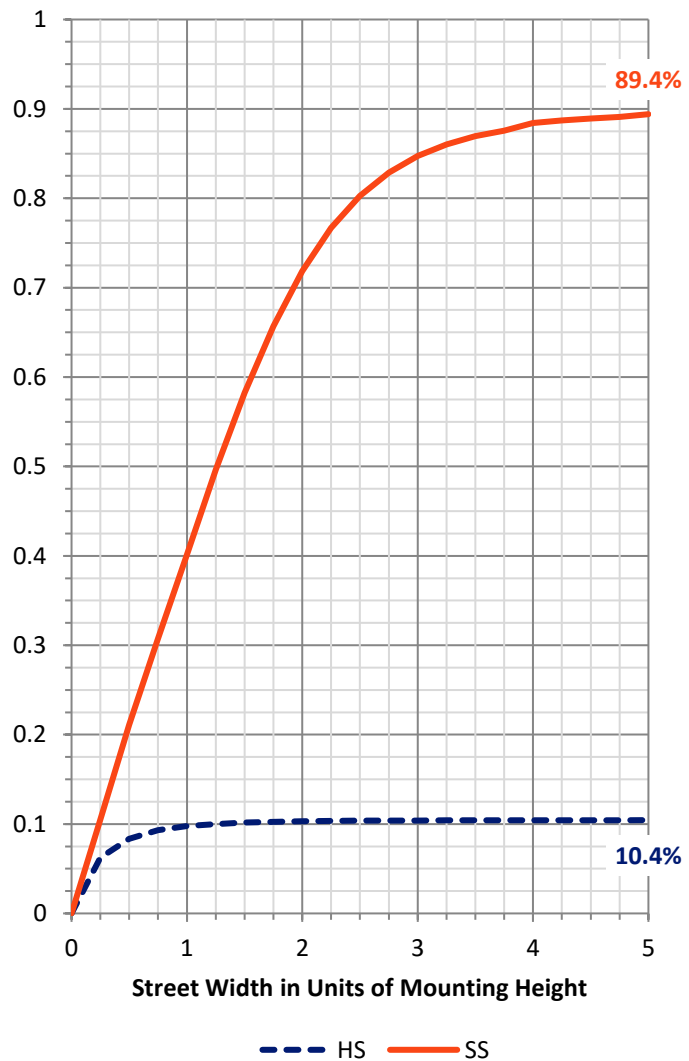
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.9	0.0	3105.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26454.1	0.0	26454.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	29560.0	0.0	29560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.0
10°-20°	891.7	3.0
20°-30°	1464.4	5.0
30°-40°	2076.8	7.0
40°-50°	3432.8	11.6
50°-60°	6166.6	20.9
60°-70°	8562.6	29.0
70°-80°	6211.0	21.0
80°-90°	449.0	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°	29560.0	100.0
0°-180°	29560.0	100.0

Coefficient of Utilization



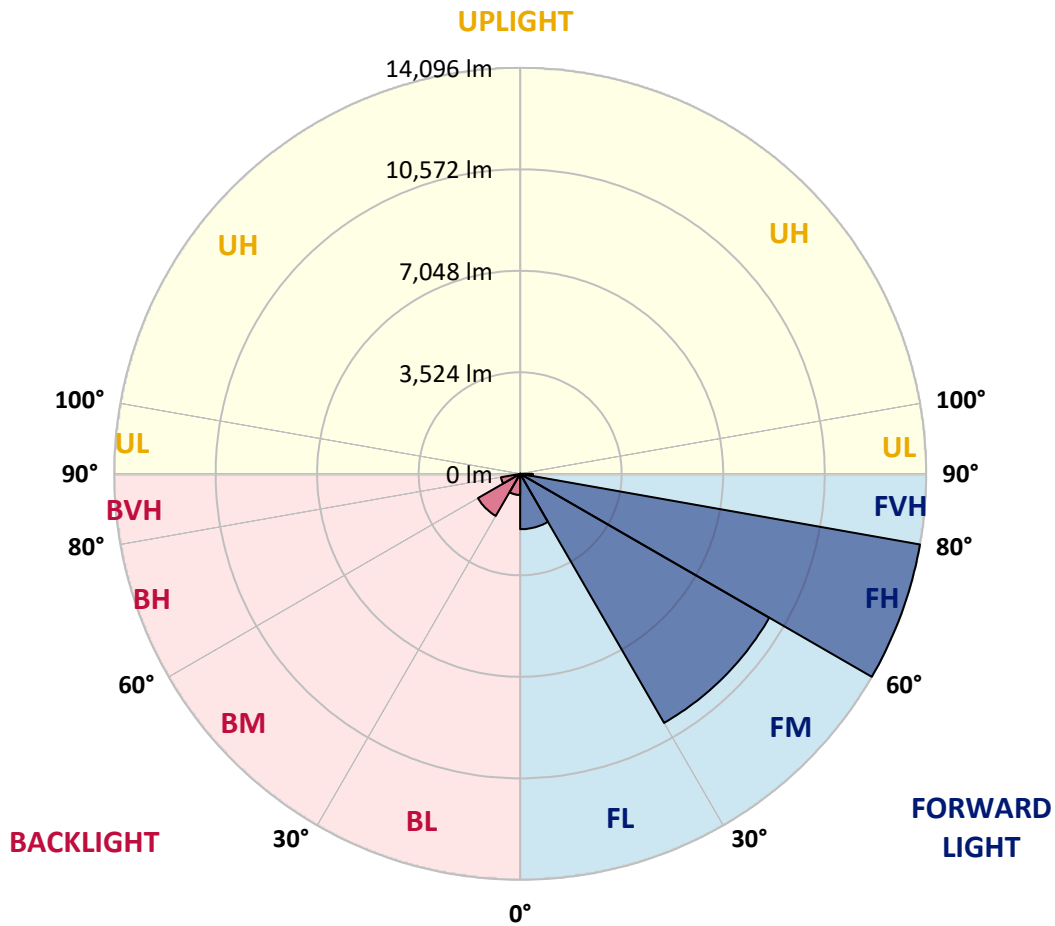
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.5	6.5			
FM (30°-60°)	9986.9	33.8			
FH (60°-80°)	14096.3	47.7			G5
FVH (80°-90°)	445.3	1.5			G3/500
BL (0°-30°)	735.7	2.5	B2/1000		
BM (30°-60°)	1689.2	5.7	B2/2500		
BH (60°-80°)	677.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	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°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3537.0	3543.0	3539.0	3514.8	3474.4	3452.2	3440.1	3399.8	3373.5	3327.1
5°	3861.8	3886.0	3871.9	3823.5	3746.8	3692.3	3676.2	3593.5	3518.8	3432.1
7.5°	4206.8	4218.9	4192.7	4130.2	4027.3	3934.5	3920.3	3805.3	3686.3	3553.1
10°	4505.5	4519.6	4479.2	4388.4	4271.4	4156.4	4136.2	4009.1	3867.9	3704.4
12.5°	4755.6	4769.8	4717.3	4608.4	4479.2	4360.2	4340.0	4206.8	4051.5	3869.9
15°	4945.3	4971.5	4900.9	4783.9	4644.7	4525.6	4515.5	4384.4	4233.1	4031.3
17.5°	5056.3	5082.5	5015.9	4874.7	4755.6	4654.8	4642.7	4533.7	4392.5	4198.8
20°	5074.4	5098.7	5028.0	4905.0	4806.1	4725.4	4719.3	4640.6	4537.7	4352.1
22.5°	5020.0	5050.2	4985.7	4886.8	4818.2	4775.8	4767.8	4723.4	4664.9	4507.5
25°	4963.5	4987.7	4939.3	4852.5	4816.2	4812.1	4818.2	4810.1	4798.0	4664.9
27.5°	4959.4	4985.7	4931.2	4848.5	4828.3	4870.7	4876.7	4915.0	4925.1	4808.1
30°	4993.7	5011.9	4959.4	4872.7	4862.6	4959.4	4961.5	5030.1	5046.2	4929.2
32.5°	5068.4	5088.6	5036.1	4909.0	4894.9	5030.1	5036.1	5126.9	5153.1	5058.3
35°	5243.9	5268.1	5207.6	5009.9	4959.4	5096.6	5114.8	5221.7	5274.2	5195.5
37.5°	5681.8	5611.1	5528.4	5213.7	5106.7	5201.6	5231.8	5356.9	5449.7	5358.9
40°	6769.3	6547.3	6289.1	5560.7	5365.0	5425.5	5449.7	5574.8	5701.9	5613.2
42.5°	8401.6	8139.3	7723.6	6359.7	5754.4	5784.7	5802.8	5911.8	6091.3	6020.7
45°	9856.3	9761.5	9337.8	7723.6	6482.8	6333.5	6355.7	6412.2	6676.5	6650.2
47.5°	10974.1	10919.6	10592.8	9289.4	7713.6	7005.4	7067.9	7094.1	7475.5	7568.3
50°	11833.6	11813.5	11520.9	10681.5	9321.6	7996.0	8018.2	7961.7	8532.7	8762.7
52.5°	12644.7	12713.3	12497.5	11974.9	11038.7	9293.4	9289.4	9023.0	9793.8	10140.8
55°	13377.2	13401.4	13423.6	13294.4	12765.8	10770.3	10732.0	10296.2	11256.6	11615.7
57.5°	14065.2	14075.3	14273.0	14537.3	14563.5	12356.2	12285.6	11763.0	12854.6	13110.8
60°	14527.2	14573.6	14991.3	15725.7	16046.5	13992.5	13954.2	13421.5	14480.8	14599.9
62.5°	13861.4	14143.9	15197.1	16653.9	17446.8	15806.4	15788.3	15287.9	16191.8	16095.0
65°	11220.3	11698.5	13550.7	17281.3	18820.8	17832.2	17858.4	17325.7	17949.2	17634.4
67.5°	7848.7	8353.2	10544.3	17331.8	20356.3	20211.0	20362.3	19527.0	19815.5	19109.4
70°	5427.5	5687.8	7114.3	16246.3	21552.8	23487.7	23483.7	22230.7	21671.8	19781.2
72.5°	3650.0	3785.1	4620.5	12888.9	20673.1	25434.8	25317.7	24296.8	22297.3	18500.0
75°	1539.5	1638.3	2138.7	7243.4	16355.2	23269.8	22953.0	21472.0	19811.5	14567.6
77.5°	488.3	530.6	843.4	2592.7	9008.9	17491.2	17156.3	13409.4	13278.3	7308.0
80°	232.0	270.4	474.2	1041.1	3545.0	9513.3	9466.9	6083.3	5712.0	1973.3
82.5°	100.9	119.0	262.3	556.9	1585.9	3393.7	3462.3	2070.1	1713.0	748.6
85°	32.3	42.4	121.1	256.2	669.9	843.4	833.3	492.3	690.0	407.6
87.5°	0.0	0.0	40.4	58.5	68.6	48.4	54.5	42.4	191.7	113.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3238.4	0°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
3278.7	2.5°	3254.5	3222.2	3165.7	3113.3	3066.9	3020.5	2992.2	2951.9	2947.8	2947.8
3331.2	5°	3276.7	3224.2	3123.4	3016.4	2893.3	2776.3	2659.3	2546.3	2510.0	2483.8
3415.9	7.5°	3341.3	3258.5	3099.1	2895.4	2661.3	2405.1	2225.5	2031.8	1957.1	1916.8
3528.9	10°	3434.1	3321.1	3079.0	2721.8	2342.5	1993.5	1737.2	1527.4	1446.7	1412.4
3652.0	12.5°	3537.0	3397.8	3042.6	2505.9	1993.5	1575.8	1325.6	1228.8	1216.7	1216.7
3799.3	15°	3660.1	3490.6	2980.1	2251.7	1628.3	1246.9	1158.1	1162.2	1174.3	1182.4
3942.5	17.5°	3787.2	3589.4	2881.2	1967.2	1305.4	1121.8	1123.8	1129.9	1140.0	1148.1
4097.9	20°	3924.4	3688.3	2750.1	1664.6	1119.8	1085.5	1091.6	1097.6	1105.7	1109.7
4243.2	22.5°	4071.7	3781.1	2594.7	1368.0	1057.3	1055.2	1057.3	1063.3	1073.4	1073.4
4412.6	25°	4229.0	3884.0	2417.2	1152.1	1025.0	1025.0	1029.0	1033.0	1041.1	1041.1
4576.1	27.5°	4390.5	3978.8	2229.5	1039.1	996.7	994.7	994.7	1000.8	1004.8	1006.8
4737.5	30°	4568.0	4089.8	2041.9	1014.9	974.5	964.4	958.4	962.4	966.5	968.5
4907.0	32.5°	4749.6	4196.8	1874.4	1025.0	952.3	934.2	914.0	910.0	910.0	918.0
5082.5	35°	4951.4	4313.8	1745.3	1059.3	940.2	889.8	857.5	839.4	841.4	853.5
5292.3	37.5°	5193.5	4455.0	1650.5	1089.5	932.2	839.4	786.9	764.7	750.6	764.7
5580.9	40°	5510.3	4662.8	1581.9	1113.8	922.1	780.8	710.2	673.9	647.7	655.7
6028.8	42.5°	5976.3	4989.7	1555.6	1115.8	899.9	712.2	631.5	583.1	544.8	546.8
6702.7	45°	6630.1	5506.2	1690.8	1089.5	851.5	637.6	548.8	484.2	460.0	454.0
7709.5	47.5°	7525.9	6258.8	2003.5	1035.1	780.8	564.9	468.1	413.6	395.5	385.4
9031.1	50°	8726.4	7225.3	2350.6	974.5	710.2	496.3	401.5	367.2	355.1	345.0
10598.8	52.5°	10118.6	8205.9	2635.1	914.0	639.6	435.8	359.1	339.0	328.9	320.8
12112.1	55°	11395.8	8881.8	2618.9	849.4	571.0	387.4	328.9	316.8	304.7	296.6
13415.5	57.5°	12190.8	8976.6	2158.9	778.8	492.3	349.1	300.6	292.6	278.4	268.4
14543.4	60°	12556.0	8435.9	1513.3	686.0	413.6	312.7	270.4	266.3	248.2	234.0
15610.7	62.5°	12622.5	7431.1	1008.8	571.0	345.0	278.4	240.1	234.0	209.8	185.6
16478.3	65°	12352.2	5994.5	698.1	445.9	294.6	242.1	205.8	193.7	167.5	143.3
16684.1	67.5°	11496.7	4208.9	486.3	320.8	250.2	191.7	163.4	159.4	139.2	119.0
15634.9	70°	9929.0	2399.0	324.8	240.1	197.7	131.1	129.1	133.2	113.0	96.8
12773.9	72.5°	7612.7	1097.6	201.8	175.5	135.2	88.8	102.9	104.9	86.8	72.6
7969.8	75°	4481.2	470.1	127.1	113.0	68.6	58.5	74.7	76.7	58.5	46.4
2913.5	77.5°	1525.4	177.6	80.7	66.6	34.3	32.3	48.4	48.4	32.3	18.2
585.1	80°	347.0	66.6	40.4	26.2	16.1	14.1	16.1	14.1	8.1	2.0
179.6	82.5°	98.9	26.2	16.1	10.1	6.1	6.1	2.0	0.0	0.0	0.0
62.5	85°	28.2	12.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
22.2	87.5°	12.1	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>
3238.4
2957.9
2495.9
1922.8
1412.4
1216.7
1182.4
1148.1
1111.7
1077.4
1043.1
1008.8
972.5
924.1
859.5
760.7
651.7
538.7
445.9
379.3
343.0
318.8
292.6
266.3
230.0
173.5
135.2
113.0
88.8
64.6
40.4
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