

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: P956060

Luminaire Tested: **GALN-SB8D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956060
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-SB8D-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72511 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

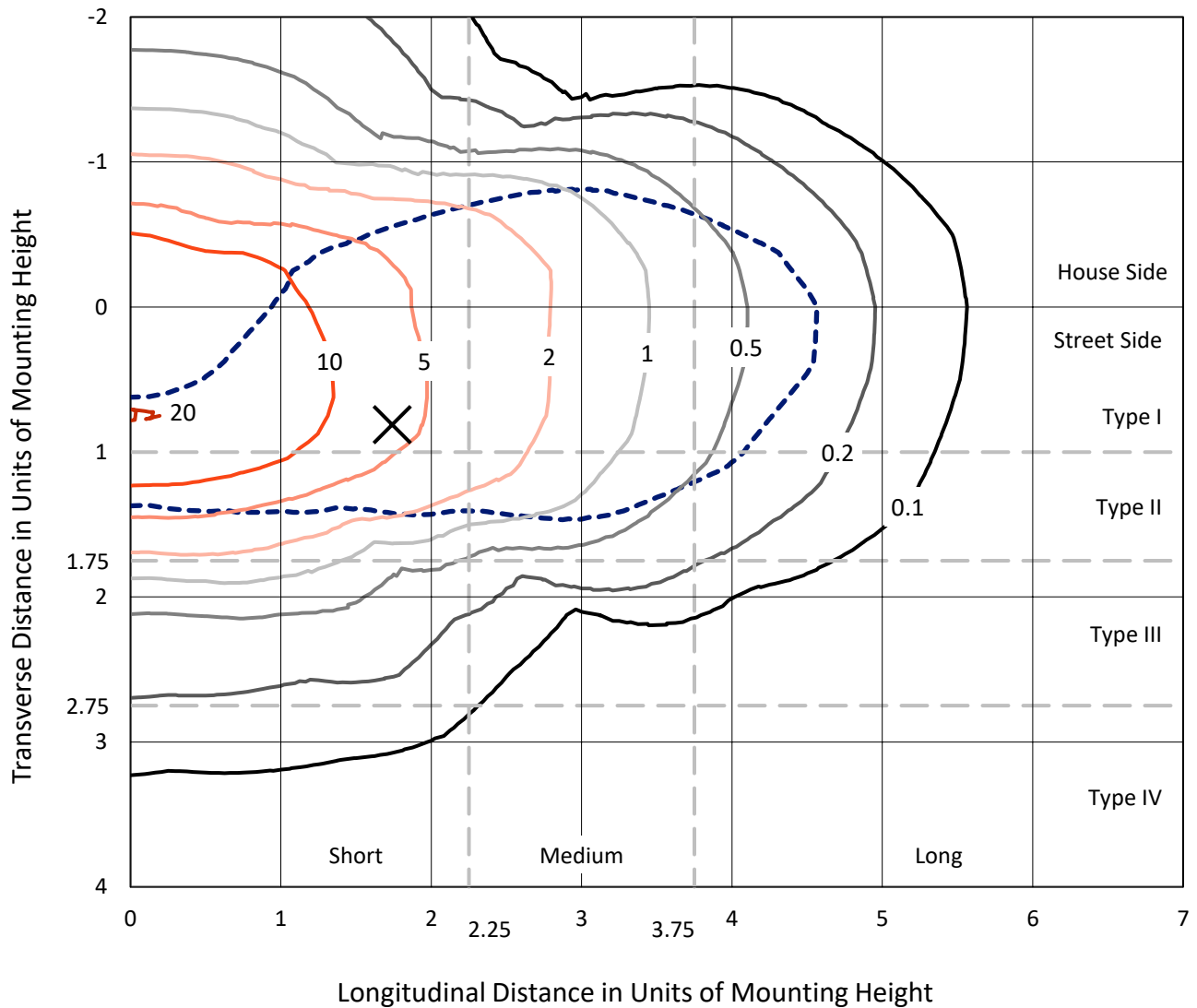
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

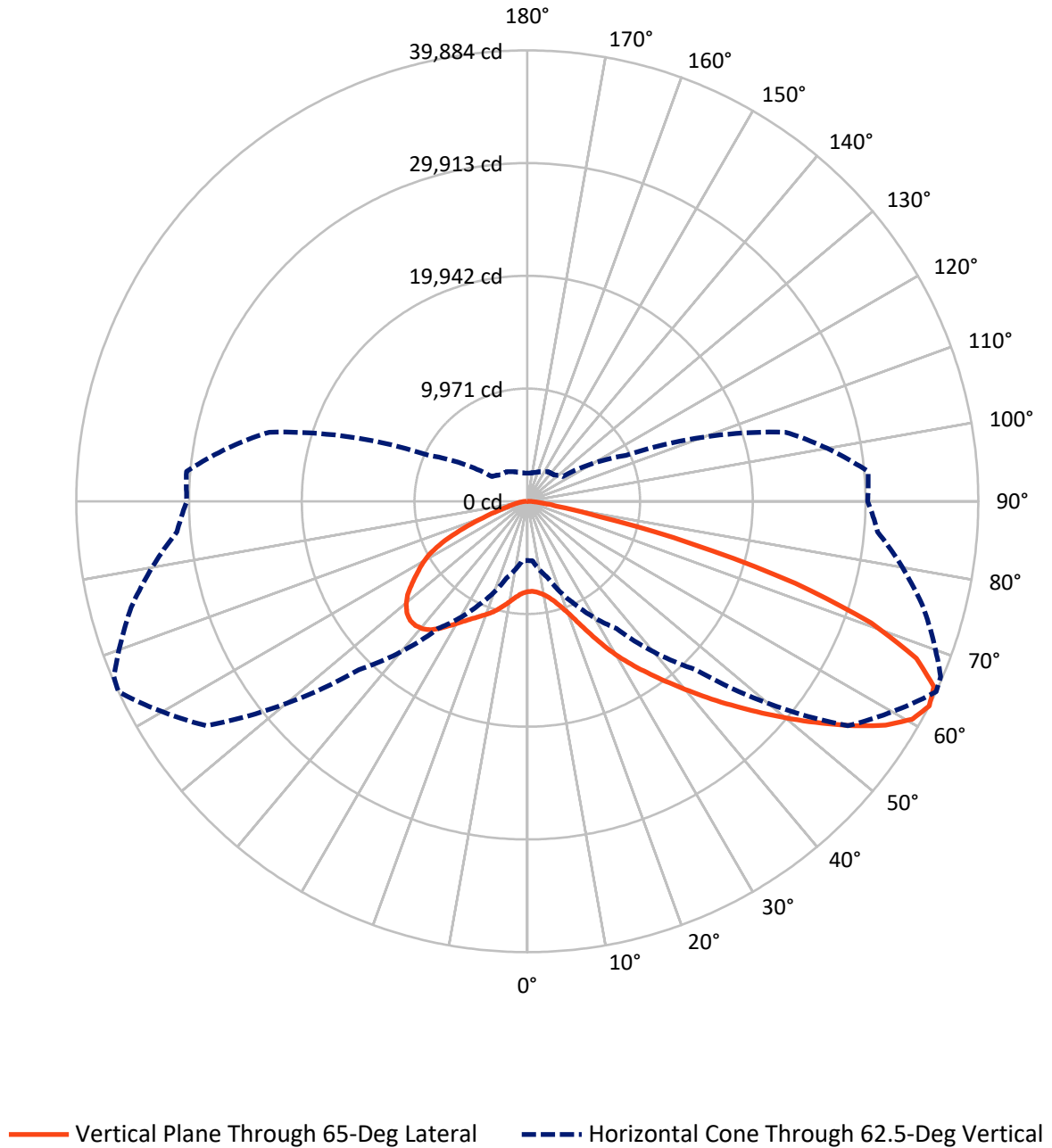
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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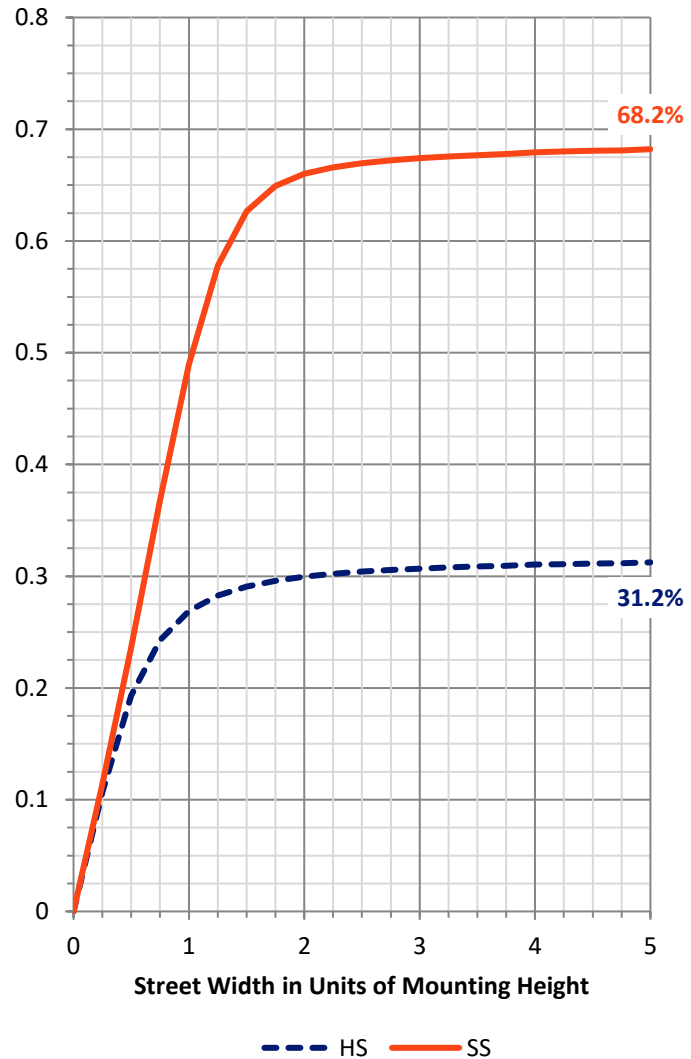
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22881.3	0.0	22881.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	49629.7	0.0	49629.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	72511.0	0.0	72511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.6	1.1
10°-20°	2701.5	3.7
20°-30°	5477.5	7.6
30°-40°	9478.7	13.1
40°-50°	14344.2	19.8
50°-60°	16817.7	23.2
60°-70°	14099.6	19.4
70°-80°	7784.1	10.7
80°-90°	1011.1	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°	72511.0	100.0
0°-180°	72511.0	100.0

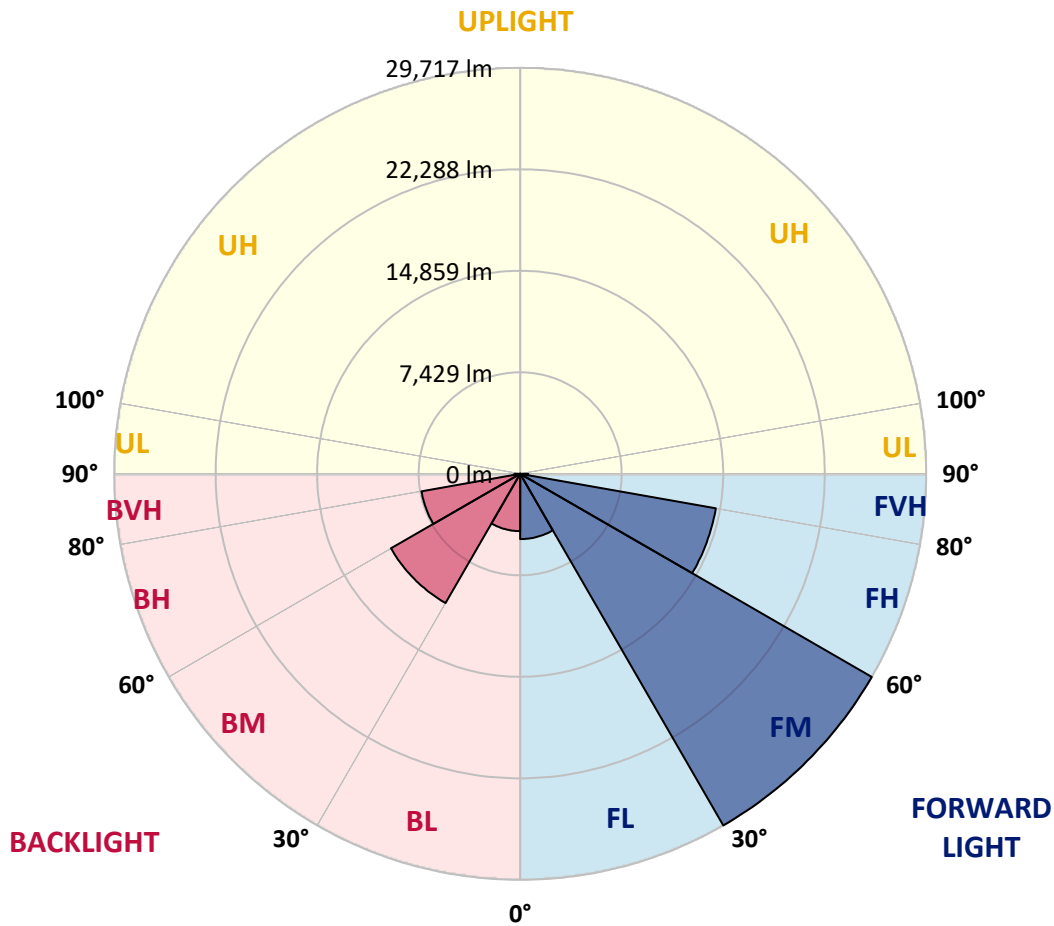


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4779.4	6.6			
FM (30°-60°)	29717.4	41.0			
FH (60°-80°)	14543.6	20.1			G5
FVH (80°-90°)	589.3	0.8			G4/750
BL (0°-30°)	4196.2	5.8	B4/5000		
BM (30°-60°)	10923.2	15.1	B5		
BH (60°-80°)	7340.1	10.1	B5		G5
BVH (80°-90°)	421.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4
2.5°	7937.7	7915.2	7934.0	7934.0	7941.5	7937.7	7964.1	7971.6	7982.9	8005.4
5°	7858.7	7855.0	7888.8	7918.9	7949.0	7975.3	8009.2	8058.1	8065.6	8092.0
7.5°	7832.4	7809.8	7862.5	7900.1	7971.6	8035.5	8125.8	8208.6	8242.4	8253.7
10°	8035.5	7997.9	8046.8	8069.4	8129.6	8193.5	8298.9	8430.5	8468.2	8513.3
12.5°	8381.6	8340.3	8411.7	8445.6	8502.0	8558.5	8629.9	8757.8	8776.6	8859.4
15°	8855.6	8806.7	8851.9	8893.3	8987.3	9040.0	9111.5	9235.6	9235.6	9299.6
17.5°	9498.9	9435.0	9468.8	9483.9	9544.1	9623.1	9743.5	9852.6	9909.0	9886.4
20°	10458.2	10379.2	10379.2	10304.0	10281.4	10345.4	10503.4	10653.9	10714.1	10597.4
22.5°	11899.1	11786.2	11722.3	11466.4	11364.9	11372.4	11530.4	11714.7	11763.6	11556.7
25°	13731.1	13554.3	13467.8	13091.6	12862.1	12662.7	12786.9	13023.9	13091.6	12835.8
27.5°	15563.2	15574.5	15491.7	15040.3	14660.3	14295.4	14231.5	14479.8	14551.3	14261.6
30°	18132.6	17865.5	17707.5	17165.8	16624.1	16112.5	15849.1	15950.7	15969.5	15623.4
32.5°	20348.4	20280.7	19942.1	19468.1	18772.2	17970.9	17530.7	17369.0	17338.9	16846.0
35°	22872.7	22835.1	22477.7	21913.4	21161.0	20047.5	19253.7	18791.0	18753.4	18061.2
37.5°	25438.4	25438.4	25088.5	24471.5	23692.8	22300.9	21093.3	20359.7	20239.3	19336.5
40°	27484.9	27360.7	27424.7	27165.1	26273.5	24795.1	23136.0	22071.4	21909.6	20826.2
42.5°	28647.3	28605.9	28989.6	29279.3	28914.4	27733.2	25385.7	23926.0	23700.3	22466.4
45°	28906.9	28861.7	29546.4	30607.3	31118.9	30633.6	27831.0	25878.5	25603.9	24181.9
47.5°	28308.7	28218.4	29222.9	30897.0	32537.2	33391.1	30479.4	27996.5	27597.7	25852.2
50°	26510.5	26424.0	27943.8	30167.1	33014.9	35264.6	33353.5	30242.4	29632.9	27642.9
52.5°	22601.8	22643.2	25024.5	28079.3	32386.7	36430.8	35828.9	32608.6	31875.1	29474.9
55°	17606.0	17696.2	20623.1	23986.2	29873.7	36254.0	37518.0	35046.4	34316.6	31197.9
57.5°	12606.3	13005.1	15747.6	19076.9	25047.1	33451.3	37886.7	37363.8	36656.5	33078.9
60°	8171.0	8242.4	11063.9	14419.6	19073.1	28470.5	37138.0	39120.6	38567.6	34997.5
62.5°	5236.6	5285.6	7004.8	10085.8	13727.4	21063.2	34617.5	39884.3	39715.0	36265.3
65°	3848.5	3810.9	4706.2	6666.2	9246.9	12990.0	29723.2	39515.6	39850.4	37059.0
67.5°	3212.7	3160.0	3600.2	4615.9	6812.9	7377.2	21992.4	37119.2	38345.6	36968.8
70°	2926.8	2881.7	3148.8	3427.1	5315.6	4939.5	11086.5	32270.1	34158.6	35941.7
72.5°	2479.1	2400.1	2765.0	3043.4	4134.4	3788.3	4582.1	24787.5	27089.9	32650.0
75°	1922.4	1869.7	2181.9	2678.5	3107.4	2956.9	2896.7	15051.6	17564.6	25250.3
77.5°	1523.6	1452.1	1738.0	2087.9	2795.1	2230.8	2110.5	6481.9	8972.3	16120.0
80°	1147.4	1083.4	1320.4	1651.5	2148.1	1681.6	1365.6	2644.7	3382.0	8167.2
82.5°	816.3	759.9	921.7	1211.4	1444.6	1508.5	838.9	1482.2	1666.5	3148.8
85°	522.9	489.1	617.0	759.9	917.9	970.6	511.6	775.0	850.2	1297.9
87.5°	285.9	233.2	331.1	353.6	425.1	387.5	244.5	282.1	304.7	470.2
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°
7990.4	0°	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4	7990.4
8005.4	2.5°	8020.5	8031.8	8069.4	8080.7	8107.0	8140.9	8163.4	8186.0	8186.0	8208.6
8125.8	5°	8129.6	8155.9	8234.9	8276.3	8344.0	8411.7	8453.1	8502.0	8532.1	8547.2
8317.7	7.5°	8340.3	8381.6	8494.5	8566.0	8682.6	8776.6	8840.6	8908.3	8923.4	8964.7
8584.8	10°	8626.2	8675.1	8803.0	8938.4	9077.6	9194.2	9254.4	9303.3	9322.1	9329.7
8927.1	12.5°	8953.5	9024.9	9190.5	9356.0	9502.7	9604.3	9619.3	9608.0	9555.4	9510.2
9348.5	15°	9356.0	9419.9	9604.3	9784.9	9927.8	9946.6	9852.6	9792.4	9728.4	9717.1
9818.7	17.5°	9837.5	9871.4	10040.7	10217.5	10228.8	10164.8	10025.6	9969.2	9909.0	9867.6
10431.9	20°	10398.1	10386.8	10507.1	10582.4	10503.4	10307.8	10097.1	10003.0	9942.9	9893.9
11184.3	22.5°	11067.7	10981.2	10966.1	10947.3	10736.6	10326.6	10040.7	9920.3	9826.2	9758.5
12233.9	25°	12042.0	11711.0	11481.5	11353.6	10879.6	10225.0	9860.1	9593.0	9416.2	9299.6
13516.7	27.5°	13260.9	12704.1	12124.8	11812.5	10879.6	10018.1	9423.7	8991.1	8701.4	8581.0
14758.2	30°	14423.3	13840.2	12986.3	12365.6	10853.2	9679.5	8720.2	8118.3	7779.7	7659.3
15819.0	32.5°	15416.5	14780.7	13900.4	12971.2	10789.3	9130.3	7847.4	7181.6	6854.3	6711.3
16868.6	35°	16338.2	15661.0	14818.4	13637.1	10620.0	8325.2	6888.1	6380.3	6015.4	5785.9
17937.0	37.5°	17282.4	16477.4	15687.4	14239.0	10315.3	7384.7	6150.8	5718.2	5289.3	4980.8
19073.1	40°	18309.4	17346.4	16616.6	14596.4	9814.9	6489.4	5579.0	5184.0	4728.8	4401.5
20382.3	42.5°	19509.5	18388.4	17651.1	14780.7	9130.3	5853.6	5206.5	4819.1	4390.2	4123.1
21785.5	45°	20762.2	19535.8	18595.4	14777.0	8366.6	5556.4	5086.2	4702.4	4228.4	3950.1
23226.3	47.5°	22075.2	20735.9	19411.7	14536.2	7704.5	5597.8	5018.5	4450.4	3927.5	3656.6
24682.2	50°	23391.9	22048.8	20201.7	14084.8	7422.3	5507.5	4766.4	4096.8	3479.8	3235.3
26047.8	52.5°	24697.3	23444.5	20882.6	13441.5	7136.4	5172.7	4442.9	3637.8	3295.5	3126.2
27458.5	55°	26010.2	24825.2	21623.7	12504.7	6421.7	4781.4	3901.1	3464.8	3148.8	2994.5
28839.2	57.5°	27326.9	26420.2	22327.2	11568.0	5522.6	4299.9	3604.0	3254.1	3002.0	2870.4
29994.1	60°	28696.2	28244.8	23053.3	10706.5	4634.7	3683.0	3385.8	3084.8	2829.0	2682.3
31103.9	62.5°	30106.9	30253.7	23621.3	9596.8	3818.4	3306.8	3190.1	2881.7	2633.4	2494.2
32021.8	65°	31529.0	32191.1	23993.8	8058.1	3096.1	2949.4	2979.5	2659.7	2407.7	2287.3
32695.2	67.5°	32601.1	33586.8	23888.4	6098.1	2539.3	2610.8	2716.1	2426.5	2189.5	2095.4
32586.1	70°	32721.5	33421.2	22850.1	4175.8	2125.5	2279.7	2422.7	2197.0	1952.5	1884.7
31051.2	72.5°	31118.9	31164.1	19957.2	2727.4	1798.2	2001.4	2114.2	1963.7	1726.7	1659.0
27165.1	75°	26916.8	25773.2	14652.8	1798.2	1504.8	1719.2	1824.5	1719.2	1489.7	1504.8
20325.9	77.5°	20393.6	18253.0	8897.0	1279.1	1256.5	1444.6	1587.5	1512.3	1316.7	1478.4
10221.2	80°	10507.1	9875.1	3968.9	955.5	993.2	1154.9	1305.4	1207.6	1042.1	993.2
2283.5	82.5°	2407.7	2798.9	1565.0	684.7	718.5	831.4	996.9	906.6	748.6	632.0
951.8	85°	842.7	921.7	692.2	428.9	421.3	519.2	677.2	605.7	507.9	406.3
402.5	87.5°	267.1	349.9	259.6	173.1	180.6	233.2	312.2	285.9	237.0	154.2
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>
7990.4
8208.6
8554.7
8949.7
9310.8
9510.2
9717.1
9871.4
9897.7
9781.1
9344.7
8641.2
7730.8
6782.8
5861.1
5063.6
4465.4
4175.8
3995.2
3694.2
3250.3
3126.2
2979.5
2847.8
2671.0
2490.4
2283.5
2099.2
1888.5
1655.3
1452.1
1301.6
906.6
624.5
428.9
161.8
0.0

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