

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: P954635

Luminaire Tested: **GALN-SB7D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954635
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-SB7D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA 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: 48474 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

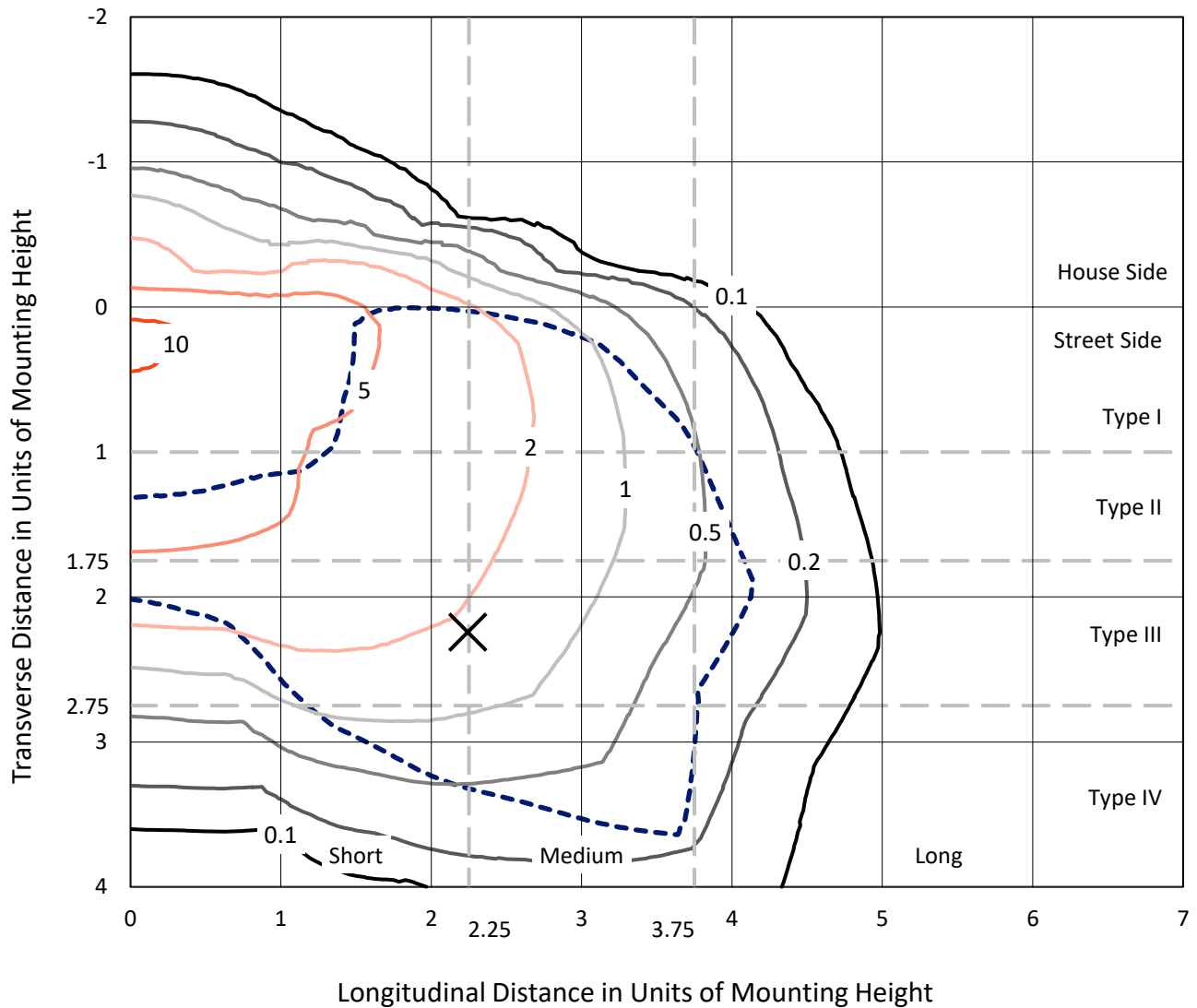
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

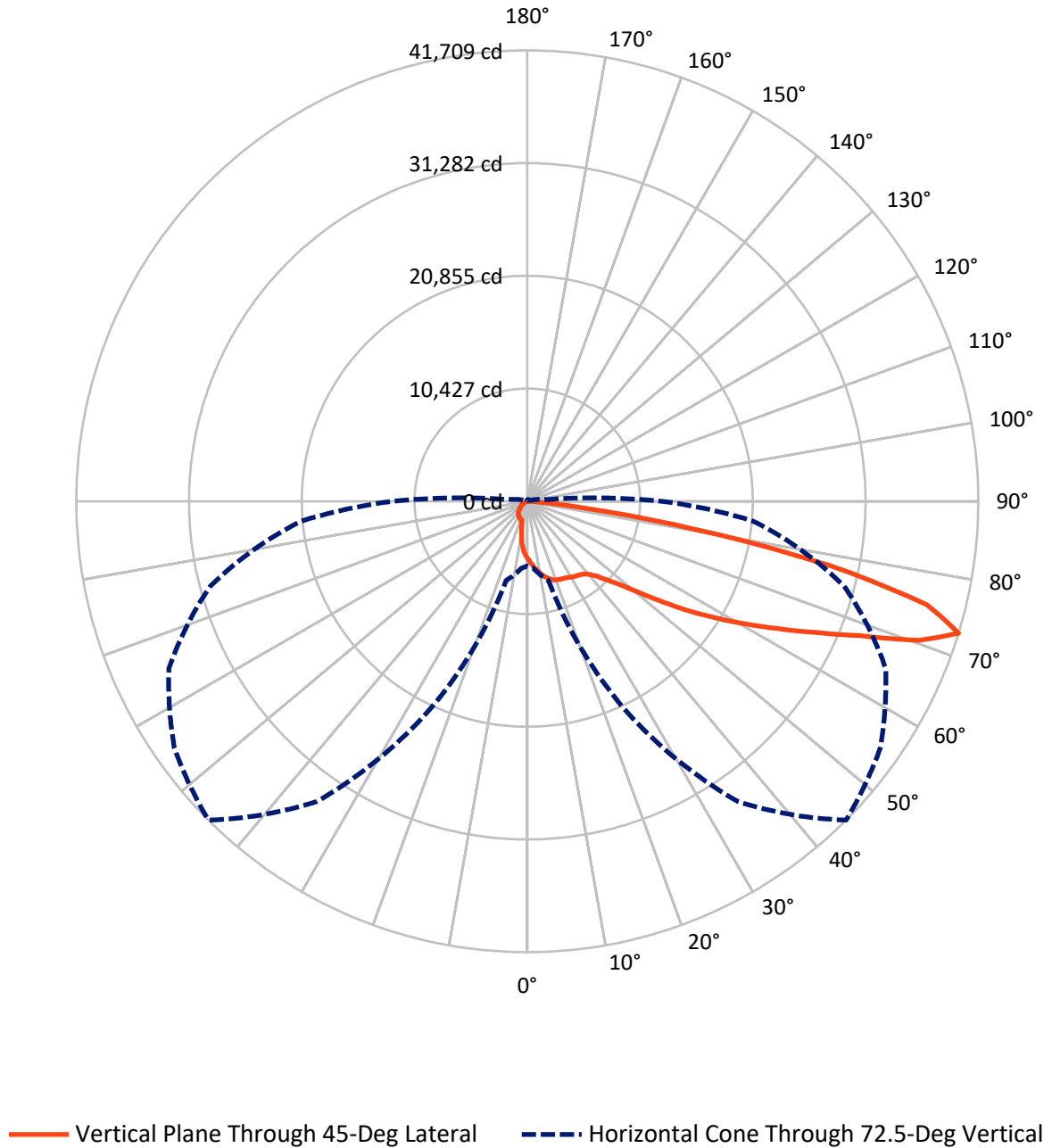
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5093.3	0.0	5093.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	43380.7	0.0	43380.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	48474.0	0.0	48474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.3	1.0
10°-20°	1462.3	3.0
20°-30°	2401.3	5.0
30°-40°	3405.7	7.0
40°-50°	5629.2	11.6
50°-60°	10112.2	20.9
60°-70°	14041.4	29.0
70°-80°	10185.2	21.0
80°-90°	736.3	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°	48474.0	100.0
0°-180°	48474.0	100.0

Coefficient of Utilization



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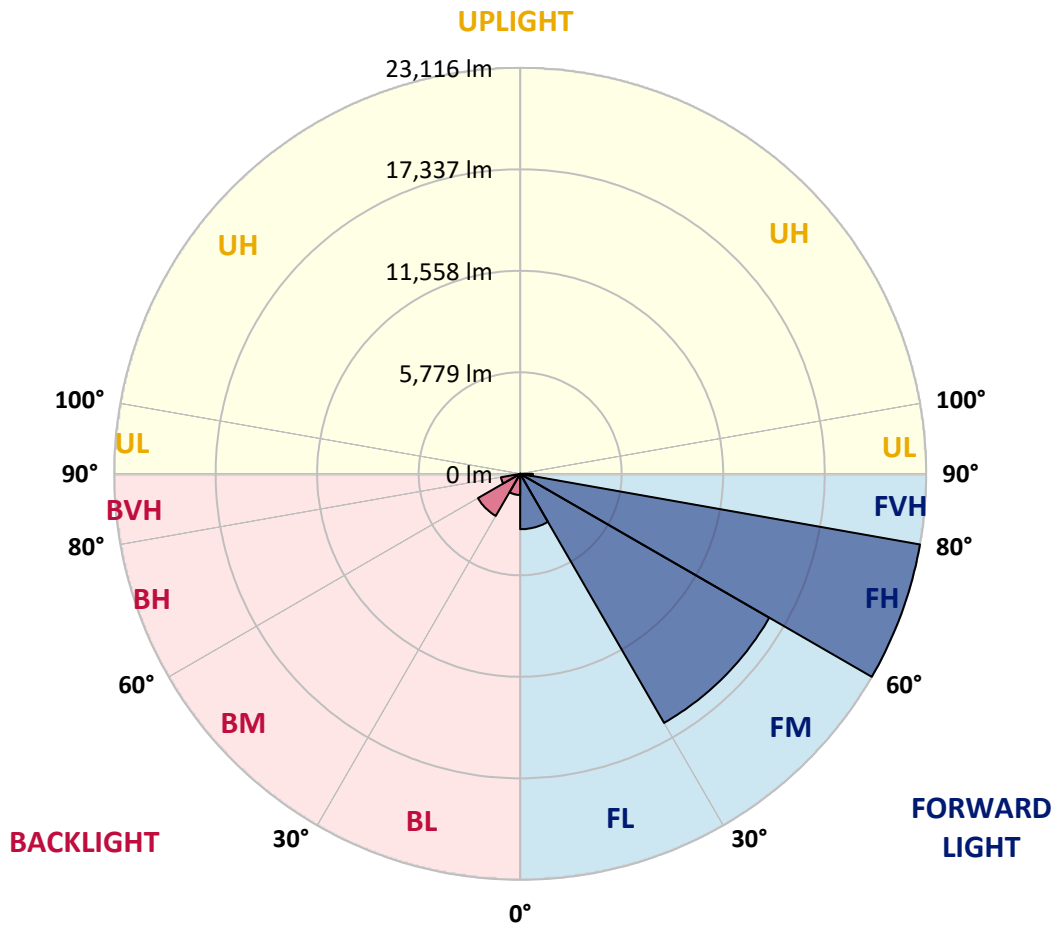
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.6	6.5			
FM (30°-60°)	16377.1	33.8			
FH (60°-80°)	23115.9	47.7			G5
FVH (80°-90°)	730.2	1.5			G4/750
BL (0°-30°)	1206.4	2.5	B3/2500		
BM (30°-60°)	2770.0	5.7	B3/5000		
BH (60°-80°)	1110.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4
2.5°	5800.1	5810.0	5803.4	5763.7	5697.5	5661.1	5641.3	5575.1	5532.1	5456.0
5°	6332.8	6372.5	6349.4	6269.9	6144.2	6054.9	6028.4	5892.8	5770.3	5628.1
7.5°	6898.6	6918.4	6875.4	6772.9	6604.1	6451.9	6428.8	6240.2	6045.0	5826.6
10°	7388.3	7411.4	7345.3	7196.4	7004.5	6815.9	6782.8	6574.3	6342.7	6074.7
12.5°	7798.6	7821.7	7735.7	7557.0	7345.3	7150.1	7117.0	6898.6	6643.8	6346.0
15°	8109.6	8152.6	8036.8	7844.9	7616.6	7421.4	7404.8	7189.8	6941.6	6610.7
17.5°	8291.5	8334.6	8225.4	7993.8	7798.6	7633.1	7613.3	7434.6	7203.0	6885.4
20°	8321.3	8361.0	8245.2	8043.4	7881.3	7748.9	7739.0	7610.0	7441.2	7136.8
22.5°	8232.0	8281.6	8175.7	8013.6	7901.1	7831.6	7818.4	7745.6	7649.7	7391.6
25°	8139.4	8179.1	8099.6	7957.4	7897.8	7891.2	7901.1	7887.9	7868.0	7649.7
27.5°	8132.7	8175.7	8086.4	7950.8	7917.7	7987.2	7997.1	8059.9	8076.5	7884.6
30°	8189.0	8218.8	8132.7	7990.5	7973.9	8132.7	8136.0	8248.5	8275.0	8083.1
32.5°	8311.4	8344.5	8258.5	8050.0	8026.9	8248.5	8258.5	8407.4	8450.4	8294.9
35°	8599.3	8639.0	8539.7	8215.4	8132.7	8357.7	8387.5	8562.9	8648.9	8519.8
37.5°	9317.2	9201.4	9065.8	8549.6	8374.3	8529.8	8579.4	8784.5	8936.7	8787.9
40°	11100.6	10736.7	10313.2	9118.7	8797.8	8897.0	8936.7	9141.9	9350.3	9204.7
42.5°	13777.3	13347.2	12665.6	10429.0	9436.4	9486.0	9515.8	9694.4	9988.9	9873.1
45°	16162.9	16007.4	15312.6	12665.6	10630.8	10385.9	10422.3	10515.0	10948.4	10905.4
47.5°	17995.9	17906.6	17370.6	15233.2	12649.1	11487.7	11590.3	11633.3	12258.7	12410.9
50°	19405.4	19372.3	18892.6	17516.1	15286.1	13112.3	13148.7	13056.0	13992.4	14369.6
52.5°	20735.5	20848.0	20494.0	19637.0	18101.8	15239.8	15233.2	14796.4	16060.3	16629.4
55°	21936.5	21976.2	22012.6	21800.9	20934.0	17661.7	17598.9	16884.2	18459.1	19048.1
57.5°	23064.8	23081.3	23405.6	23839.0	23882.0	20262.4	20146.5	19289.6	21079.6	21499.8
60°	23822.5	23898.6	24583.5	25787.8	26313.9	22945.7	22882.8	22009.3	23746.4	23941.6
62.5°	22730.6	23193.8	24921.0	27309.8	28610.1	25920.2	25890.4	25069.9	26552.1	26393.3
65°	18399.6	19183.7	22221.1	28338.8	30863.4	29242.1	29285.1	28411.6	29434.0	28917.9
67.5°	12870.8	13697.9	17291.2	28421.6	33381.3	33143.0	33391.2	32021.4	32494.5	31336.5
70°	8900.3	9327.2	11666.4	26641.5	35343.3	38516.3	38509.7	36455.0	35538.5	32438.3
72.5°	5985.4	6207.1	7576.9	21135.8	33900.7	41709.2	41517.3	39843.1	36564.2	30337.3
75°	2524.5	2686.6	3507.2	11878.2	26820.2	38159.0	37639.5	35211.0	32487.9	23888.7
77.5°	800.7	870.2	1383.0	4251.7	14773.3	28682.9	28133.7	21989.5	21774.4	11984.0
80°	380.5	443.4	777.5	1707.3	5813.3	15600.4	15524.3	9975.7	9366.9	3235.9
82.5°	165.4	195.2	430.1	913.2	2600.6	5565.2	5677.7	3394.7	2809.1	1227.5
85°	52.9	69.5	198.5	420.2	1098.5	1383.0	1366.5	807.3	1131.6	668.4
87.5°	0.0	0.0	66.2	96.0	112.5	79.4	89.3	69.5	314.3	185.3
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°
5310.4	0°	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4	5310.4
5376.6	2.5°	5336.9	5284.0	5191.3	5105.3	5029.2	4953.1	4906.8	4840.6	4834.0	4834.0
5462.6	5°	5373.3	5287.3	5121.8	4946.5	4744.6	4552.7	4360.8	4175.6	4116.0	4073.0
5601.6	7.5°	5479.2	5343.5	5082.1	4748.0	4364.1	3943.9	3649.5	3331.8	3209.4	3143.2
5786.9	10°	5631.4	5446.1	5049.0	4463.4	3841.4	3269.0	2848.8	2504.7	2372.3	2316.1
5988.7	12.5°	5800.1	5571.8	4989.5	4109.4	3269.0	2584.1	2173.8	2015.0	1995.1	1995.1
6230.2	15°	6001.9	5724.0	4886.9	3692.5	2670.1	2044.8	1899.2	1905.8	1925.7	1938.9
6465.2	17.5°	6210.4	5886.1	4724.8	3226.0	2140.7	1839.6	1842.9	1852.9	1869.4	1882.6
6719.9	20°	6435.4	6048.3	4509.7	2729.7	1836.3	1780.1	1790.0	1799.9	1813.2	1819.8
6958.2	22.5°	6676.9	6200.5	4255.0	2243.3	1733.7	1730.4	1733.7	1743.7	1760.2	1760.2
7236.1	25°	6935.0	6369.2	3963.8	1889.3	1680.8	1680.8	1687.4	1694.0	1707.3	1707.3
7504.1	27.5°	7199.7	6524.7	3656.1	1704.0	1634.5	1631.2	1631.2	1641.1	1647.7	1651.0
7768.8	30°	7490.8	6706.7	3348.4	1664.3	1598.1	1581.5	1571.6	1578.2	1584.9	1588.2
8046.7	32.5°	7788.6	6882.1	3073.8	1680.8	1561.7	1531.9	1498.8	1492.2	1492.2	1505.4
8334.6	35°	8119.5	7074.0	2862.0	1737.1	1541.8	1459.1	1406.2	1376.4	1379.7	1399.6
8678.7	37.5°	8516.5	7305.6	2706.5	1786.7	1528.6	1376.4	1290.4	1254.0	1230.8	1254.0
9151.8	40°	9036.0	7646.4	2594.0	1826.4	1512.1	1280.5	1164.7	1105.1	1062.1	1075.3
9886.3	42.5°	9800.3	8182.4	2551.0	1829.7	1475.7	1168.0	1035.6	956.2	893.3	896.7
10991.4	45°	10872.3	9029.4	2772.7	1786.7	1396.3	1045.5	900.0	794.1	754.4	744.5
12642.5	47.5°	12341.4	10263.5	3285.5	1697.4	1280.5	926.4	767.6	678.3	648.5	632.0
14809.6	50°	14310.0	11848.4	3854.6	1598.1	1164.7	813.9	658.4	602.2	582.3	565.8
17380.5	52.5°	16593.0	13456.4	4321.1	1498.8	1048.9	714.7	588.9	555.9	539.3	526.1
19862.0	55°	18687.4	14564.8	4294.7	1393.0	936.4	635.3	539.3	519.5	499.6	486.4
21999.4	57.5°	19991.0	14720.3	3540.3	1277.2	807.3	572.4	493.0	479.8	456.6	440.1
23849.0	60°	20589.9	13833.6	2481.5	1125.0	678.3	512.8	443.4	436.7	407.0	383.8
25599.2	62.5°	20699.1	12185.9	1654.3	936.4	565.8	456.6	393.7	383.8	344.1	304.4
27022.0	65°	20255.7	9830.1	1144.8	731.2	483.1	397.0	337.5	317.6	274.6	234.9
27359.5	67.5°	18852.9	6901.9	797.4	526.1	410.3	314.3	268.0	261.4	228.3	195.2
25639.0	70°	16282.0	3934.0	532.7	393.7	324.3	215.1	211.8	218.4	185.3	158.8
20947.2	72.5°	12483.6	1799.9	330.9	287.9	221.7	145.6	168.7	172.1	142.3	119.1
13069.3	75°	7348.6	770.9	208.4	185.3	112.5	96.0	122.4	125.7	96.0	76.1
4777.7	77.5°	2501.4	291.2	132.3	109.2	56.2	52.9	79.4	79.4	52.9	29.8
959.5	80°	569.1	109.2	66.2	43.0	26.5	23.2	26.5	23.2	13.2	3.3
294.5	82.5°	162.1	43.0	26.5	16.5	9.9	9.9	3.3	0.0	0.0	0.0
102.6	85°	46.3	19.9	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
36.4	87.5°	19.9	3.3	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>
5310.4
4850.5
4092.8
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1995.1
1938.9
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1710.6
1654.3
1594.8
1515.4
1409.5
1247.4
1068.7
883.4
731.2
622.0
562.5
522.8
479.8
436.7
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