

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: P942697

Luminaire Tested: **GALN-SB6D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53695 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

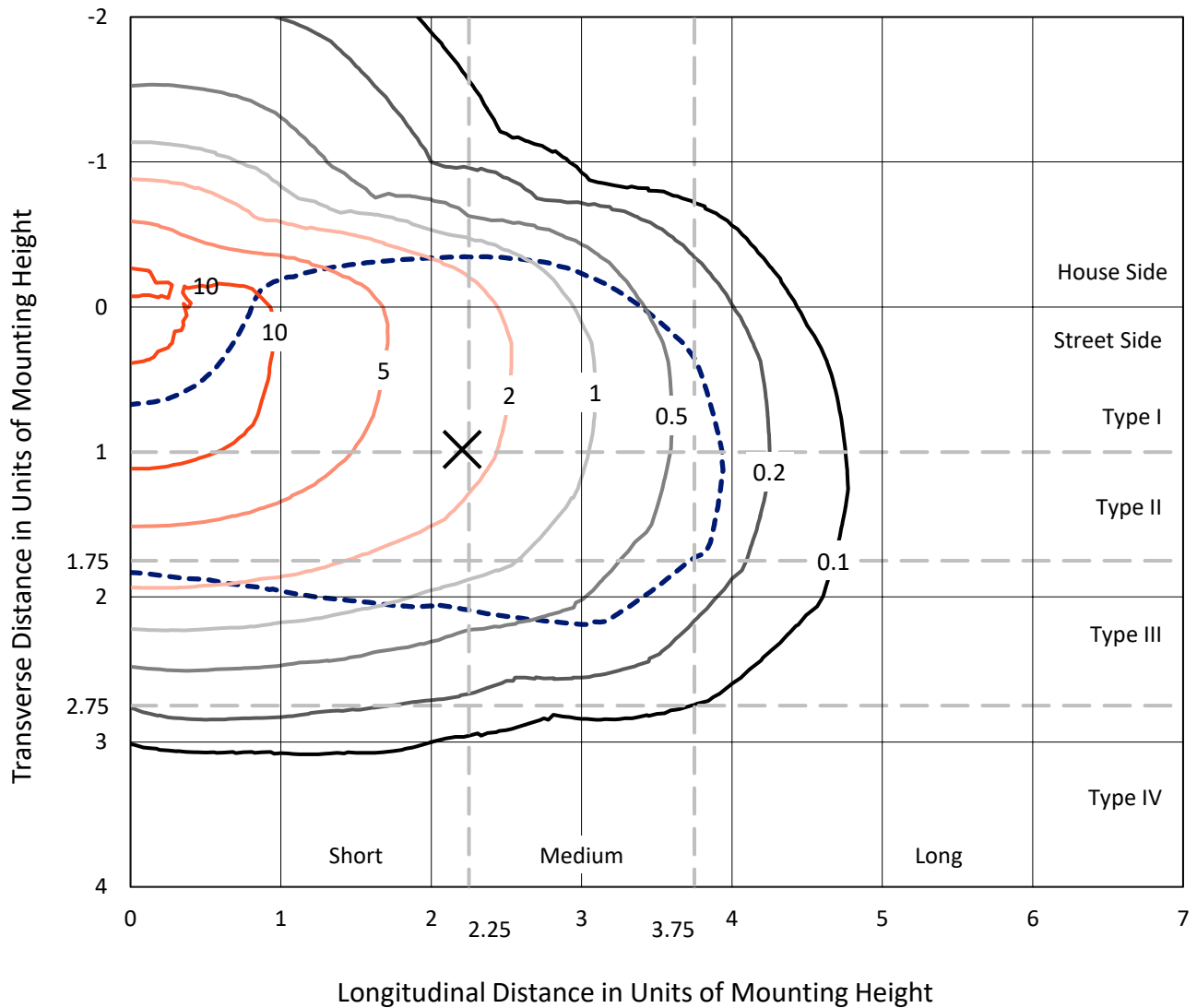
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

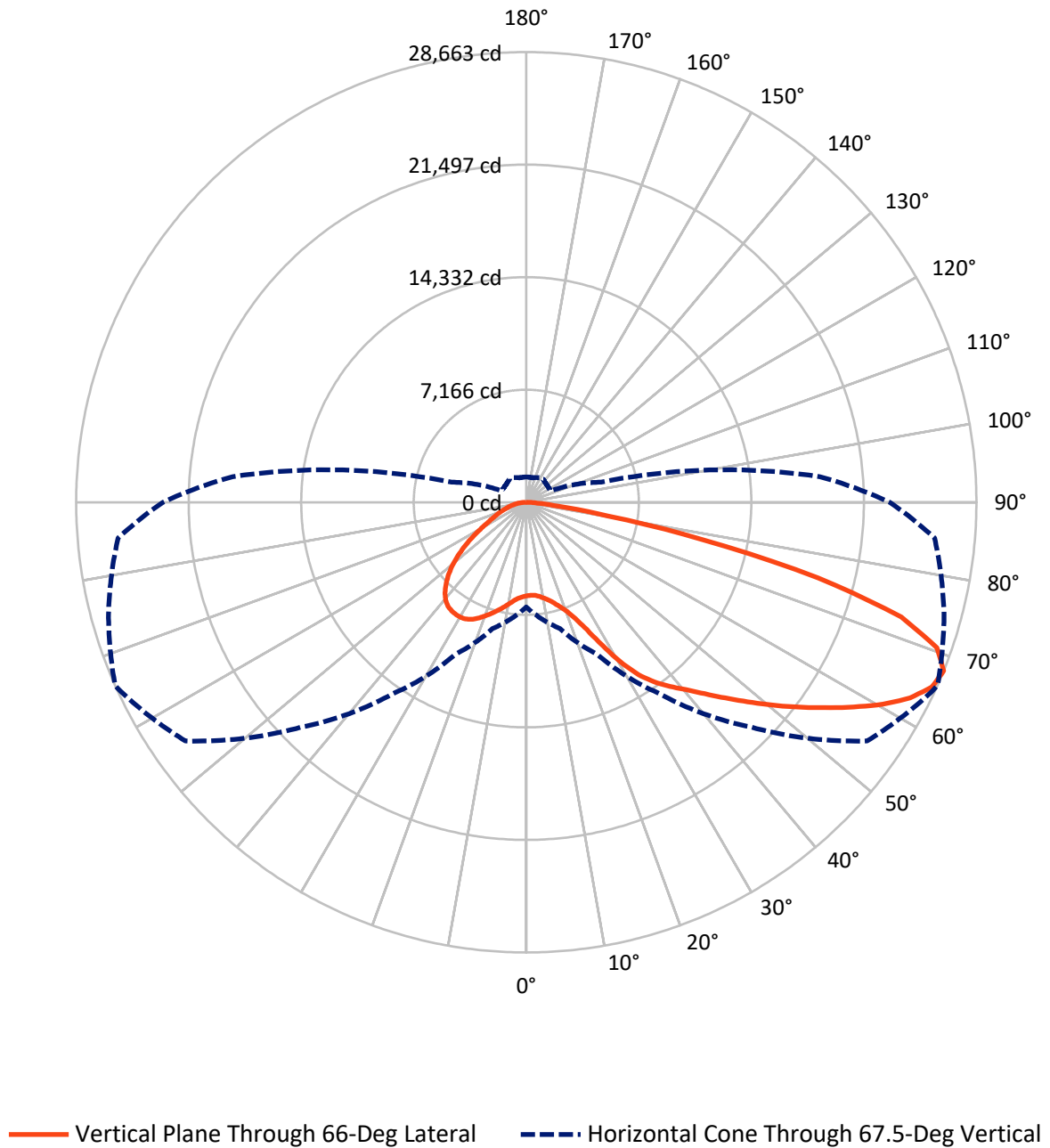
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13351.1	0.0	13351.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40343.9	0.0	40343.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	53695.0	0.0	53695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.5	1.1
10°-20°	1950.8	3.6
20°-30°	3760.1	7.0
30°-40°	6592.8	12.3
40°-50°	9801.3	18.3
50°-60°	12424.2	23.1
60°-70°	12156.7	22.6
70°-80°	5798.9	10.8
80°-90°	619.7	1.2
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°	53695.0	100.0
0°-180°	53695.0	100.0

Coefficient of Utilization



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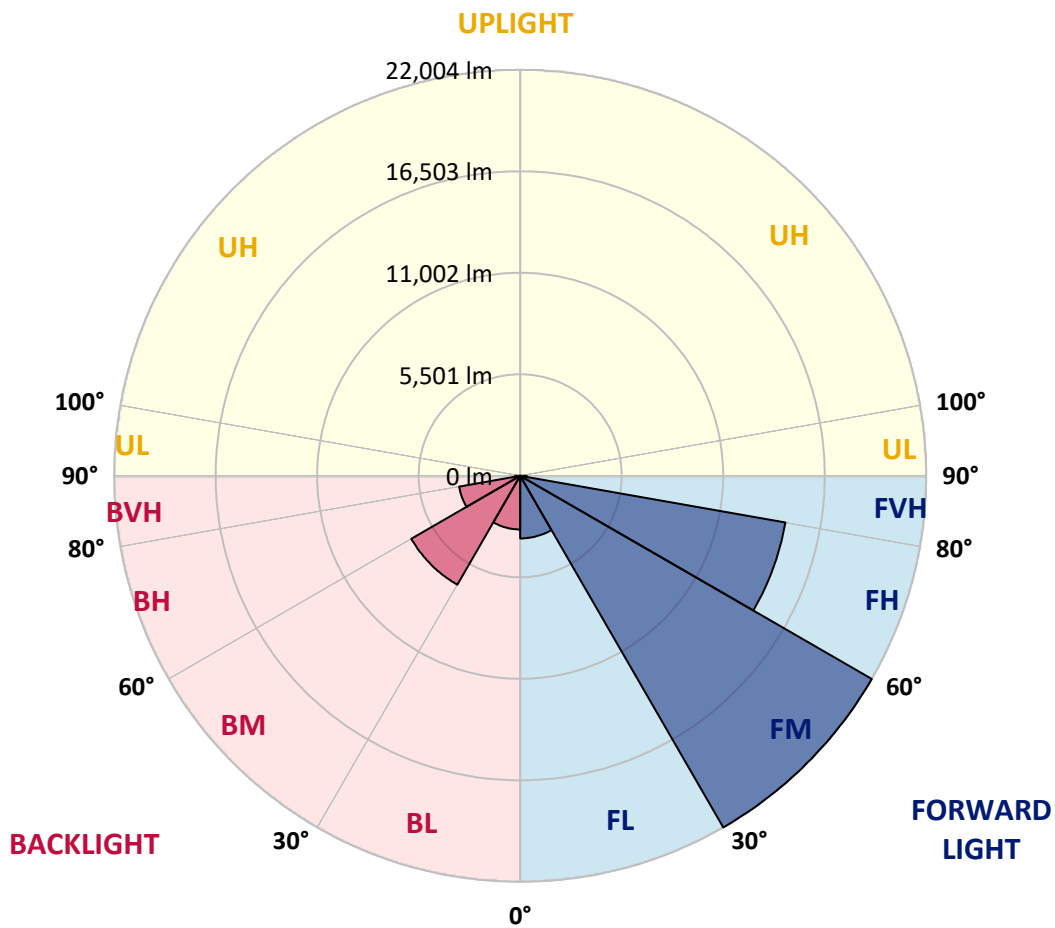
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3393.0	6.3			
FM (30°-60°)	22003.8	41.0			
FH (60°-80°)	14595.8	27.2			G5
FVH (80°-90°)	351.4	0.7			G3/500
BL (0°-30°)	2908.4	5.4	B4/5000		
BM (30°-60°)	6814.6	12.7	B4/8500		
BH (60°-80°)	3359.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	268.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5
2.5°	5893.4	5927.3	5918.8	5904.7	5901.9	5907.5	5916.0	5924.5	5921.6	5935.7
5°	5876.5	5910.3	5907.5	5907.5	5918.8	5941.4	5955.5	5969.6	5955.5	5972.4
7.5°	5887.8	5913.2	5924.5	5935.7	5963.9	6006.3	6040.1	6071.2	6054.2	6074.0
10°	6031.7	6051.4	6062.7	6062.7	6082.4	6130.4	6164.3	6220.7	6206.6	6237.6
12.5°	6294.0	6313.8	6313.8	6302.5	6316.6	6347.6	6358.9	6421.0	6395.6	6446.4
15°	6615.6	6655.1	6624.1	6604.4	6610.0	6641.0	6638.2	6686.2	6660.8	6703.1
17.5°	6971.1	7021.9	6971.1	6968.3	6957.0	6990.9	6993.7	7036.0	6990.9	7021.9
20°	7391.5	7462.0	7419.7	7433.8	7408.4	7422.5	7436.6	7498.7	7428.1	7450.7
22.5°	7983.9	8068.5	8023.4	8077.0	8060.1	8048.8	8046.0	8156.0	8046.0	8054.4
25°	8847.2	8948.7	8869.8	8943.1	8943.1	8979.8	9022.1	9163.2	8979.8	8926.2
27.5°	10122.3	10223.9	10068.7	10113.9	10099.8	10190.1	10144.9	10494.7	10297.3	10209.8
30°	11657.1	11837.6	11544.2	11532.9	11518.8	11662.7	11727.6	11958.9	11758.6	11671.2
32.5°	13315.9	13504.9	13155.1	13053.5	12999.9	13087.4	13033.8	13220.0	13081.8	12946.3
35°	15070.7	15256.9	14924.0	14726.5	14512.1	14328.7	14136.9	14184.8	14055.1	13849.1
37.5°	16729.5	17070.9	16718.2	16506.7	16111.7	15753.4	15217.4	14994.5	14873.2	14684.2
40°	18419.4	18614.1	18346.1	18165.5	17736.7	17175.3	16317.6	15846.5	15682.9	15499.5
42.5°	19663.5	19849.7	19705.9	19581.7	19246.0	18594.3	17485.6	16896.0	16659.0	16453.1
45°	20650.9	20789.2	20698.9	20744.0	20600.2	19968.2	18695.9	18021.6	17776.2	17525.1
47.5°	21048.7	21195.4	21339.3	21607.3	21852.8	21387.3	19996.4	19240.4	18980.8	18724.1
50°	21003.6	21153.1	21570.6	22140.5	22902.2	22747.1	21367.5	20538.1	20298.3	20004.9
52.5°	20642.5	20811.8	21347.8	22295.7	23508.8	23765.5	22764.0	21878.2	21652.5	21302.6
55°	19694.6	19796.1	20600.2	21943.0	23652.7	24476.5	24132.3	23305.7	23080.0	22591.9
57.5°	17937.0	18083.7	19254.5	20992.3	23291.6	24958.9	25334.1	24806.5	24589.3	23886.8
60°	15643.4	15877.5	17217.6	19395.5	22371.9	24956.0	26425.9	26282.0	26101.4	25162.0
62.5°	13047.9	13318.7	14608.0	17138.6	20763.8	24247.9	27108.6	27517.7	27424.6	26338.4
65°	10020.8	10207.0	11490.6	14218.7	18261.4	22727.3	27187.6	28361.2	28378.1	27232.7
67.5°	6672.1	7208.1	8322.4	10669.7	14909.9	20241.9	26493.6	28499.4	28663.1	27540.2
70°	3255.6	3960.9	5052.7	6934.4	10669.7	16430.5	24679.6	27365.3	27729.3	26643.1
72.5°	1351.3	1579.9	2175.1	3422.1	6124.8	11087.2	21034.6	24290.3	24964.5	23607.5
75°	911.2	987.4	1244.1	1754.8	2790.1	5467.4	15169.4	18111.9	19198.0	17829.8
77.5°	702.5	750.4	905.6	1227.2	1658.8	2067.9	8119.3	10915.1	11476.5	10624.5
80°	552.9	589.6	677.1	894.3	1176.4	1105.9	2767.6	4945.5	5269.9	4420.8
82.5°	479.6	493.7	485.2	606.6	781.5	646.0	908.4	1825.3	2014.3	1461.4
85°	347.0	386.5	403.4	375.2	414.7	327.3	372.4	646.0	710.9	634.8
87.5°	141.1	208.8	256.7	242.6	152.3	93.1	115.7	189.0	217.2	237.0
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°
5955.5	0°	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5	5955.5
5958.3	2.5°	5961.1	5980.9	5995.0	6011.9	6023.2	6040.1	6074.0	6093.7	6096.5	6110.6
6003.4	5°	6014.7	6042.9	6074.0	6119.1	6169.9	6212.2	6277.1	6322.2	6339.2	6353.3
6113.5	7.5°	6130.4	6169.9	6226.3	6305.3	6378.7	6435.1	6514.1	6567.7	6621.3	6641.0
6288.4	10°	6302.5	6358.9	6440.7	6547.9	6626.9	6700.3	6782.1	6827.2	6880.8	6903.4
6497.1	12.5°	6516.9	6576.1	6683.3	6832.9	6906.2	6957.0	6985.2	6973.9	6985.2	7005.0
6748.2	15°	6762.3	6827.2	6948.5	7109.3	7160.1	7115.0	7052.9	6996.5	6988.0	6993.7
7052.9	17.5°	7052.9	7100.9	7241.9	7377.4	7340.7	7154.5	7019.1	6928.8	6883.6	6869.5
7442.2	20°	7459.2	7459.2	7574.8	7659.5	7414.0	7098.1	6886.5	6739.8	6646.7	6607.2
7972.6	22.5°	7952.9	7907.7	7981.1	7921.8	7399.9	6940.1	6646.7	6392.8	6251.7	6195.3
8714.6	25°	8579.2	8525.6	8505.8	8139.1	7298.4	6689.0	6212.2	5904.7	5780.6	5749.5
9783.8	27.5°	9524.3	9388.8	9132.1	8257.6	7112.2	6294.0	5704.4	5419.5	5348.9	5351.8
11157.7	30°	10782.5	10511.7	9882.6	8277.3	6807.5	5735.4	5185.3	4982.2	4948.3	4962.4
12311.6	32.5°	11947.6	11690.9	10649.9	8187.0	6339.2	5188.1	4719.8	4584.4	4533.6	4550.5
13191.8	35°	12861.7	12791.2	11360.8	8060.1	5763.6	4674.7	4302.3	4186.6	4087.9	4065.3
14021.2	37.5°	13725.0	13696.8	11894.0	7882.3	5193.8	4310.7	3966.6	3814.2	3670.3	3591.3
14938.1	40°	14672.9	14644.7	12243.9	7608.7	4688.8	3994.8	3664.7	3464.4	3286.7	3142.8
15976.3	42.5°	15739.3	15572.8	12410.3	7216.5	4260.0	3726.8	3419.3	3148.4	2914.3	2781.7
17149.9	45°	16904.4	16529.2	12407.5	6717.2	3898.9	3481.3	3156.9	2773.2	2556.0	2431.8
18354.5	47.5°	18140.1	17443.3	12255.2	6164.3	3549.0	3210.5	2750.6	2457.2	2313.4	2237.2
19663.5	50°	19415.3	18298.1	11995.6	5529.5	3190.7	2903.0	2496.7	2296.4	2186.4	2115.9
20961.3	52.5°	20614.3	19073.9	11682.5	4810.1	2826.8	2603.9	2383.9	2228.7	2113.1	2034.1
22219.5	55°	21728.6	19742.5	11239.5	4073.8	2530.6	2403.6	2330.3	2200.5	2067.9	1974.8
23497.5	57.5°	22718.9	20177.0	10475.0	3382.6	2319.0	2265.4	2273.9	2152.6	2000.2	1921.2
24755.7	60°	23542.6	20495.8	9343.7	2742.2	2146.9	2130.0	2186.4	2062.3	1884.5	1794.3
25819.3	62.5°	24036.3	20490.1	7955.7	2245.6	2000.2	2005.9	2070.7	1949.4	1768.9	1684.2
26375.1	65°	23994.0	19988.0	6432.3	1921.2	1859.1	1864.8	1949.4	1825.3	1673.0	1622.2
26095.8	67.5°	23144.9	18763.6	4934.2	1709.6	1704.0	1729.4	1828.1	1740.7	1613.7	1608.1
24431.3	70°	20845.6	16221.7	3554.7	1540.4	1543.2	1579.9	1709.6	1687.1	1582.7	1594.0
20540.9	72.5°	16715.4	12368.0	2386.7	1362.6	1365.4	1424.7	1596.8	1644.7	1551.6	1701.2
14574.2	75°	11132.3	7713.1	1534.7	1173.6	1176.4	1252.6	1498.0	1562.9	1467.0	1695.5
7583.3	77.5°	5348.9	3467.2	1111.5	987.4	987.4	1057.9	1294.9	1399.3	1249.8	1317.5
2437.5	80°	1847.9	1303.4	874.6	795.6	778.6	826.6	1091.8	1213.1	1077.7	993.1
795.6	82.5°	727.9	677.1	702.5	617.8	561.4	592.4	849.2	1001.5	792.7	716.6
448.6	85°	417.5	440.1	496.5	409.1	324.4	363.9	623.5	719.4	598.1	527.6
146.7	87.5°	112.8	155.2	228.5	211.6	146.7	155.2	296.2	397.8	344.2	265.2
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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180°
5955.5
6107.8
6350.4
6643.9
6914.7
7010.6
7013.4
6889.3
6598.7
6186.8
5755.2
5360.2
5010.4
4573.1
4082.2
3594.2
3156.9
2790.1
2426.2
2220.3
2090.5
2000.2
1938.1
1870.4
1754.8
1658.8
1619.4
1616.5
1591.1
1723.7
1709.6
1207.5
931.0
713.8
538.8
273.7
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