

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: P944407

Luminaire Tested: **GALN-SB9B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944407
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-SB9B-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46118 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

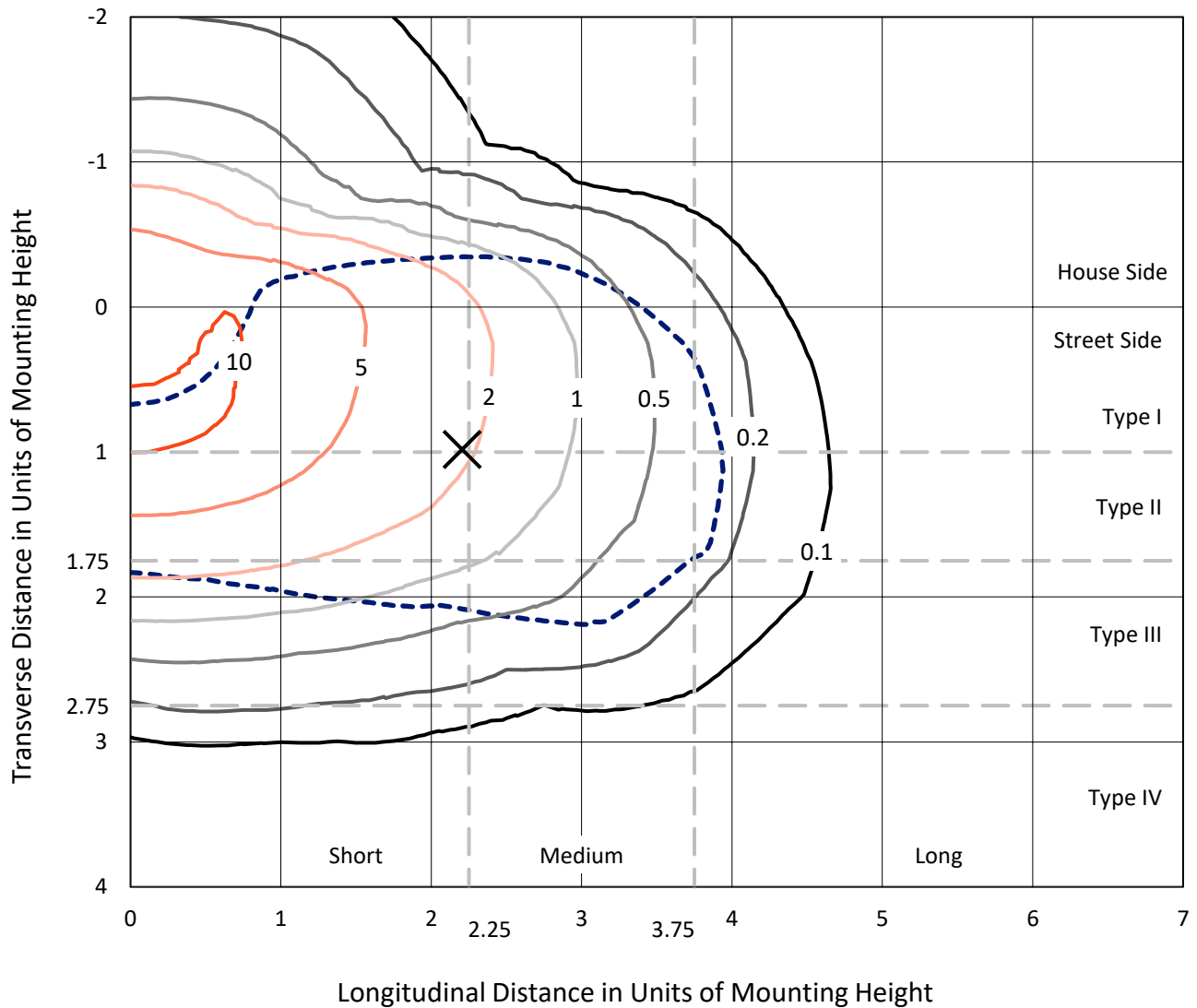
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

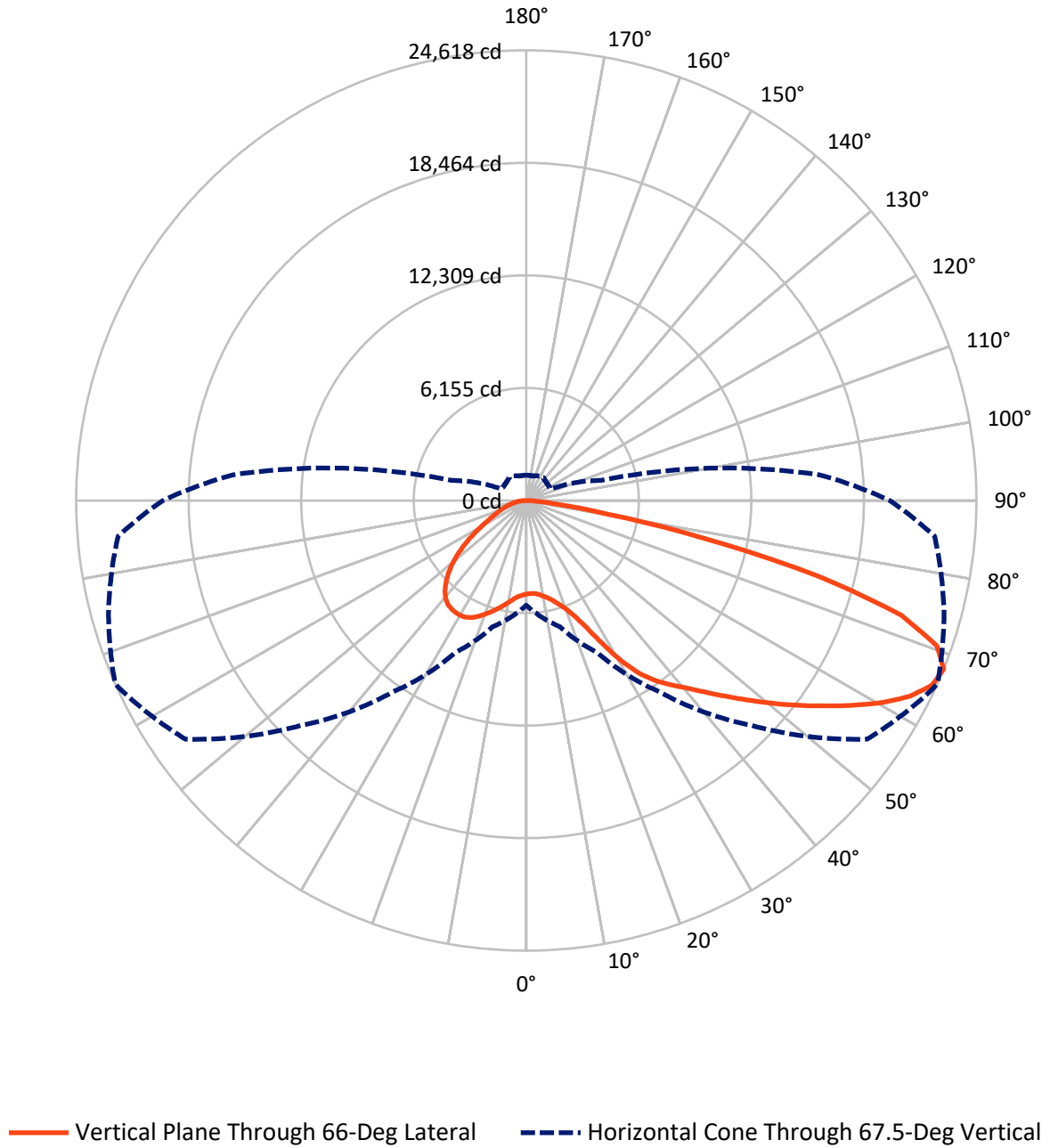
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	11467.1	0.0	11467.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34650.9	0.0	34650.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	46118.0	0.0	46118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	1.1
10°-20°	1675.5	3.6
20°-30°	3229.5	7.0
30°-40°	5662.5	12.3
40°-50°	8418.3	18.3
50°-60°	10671.0	23.1
60°-70°	10441.3	22.6
70°-80°	4980.6	10.8
80°-90°	532.3	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°	46118.0	100.0
0°-180°	46118.0	100.0

Coefficient of Utilization



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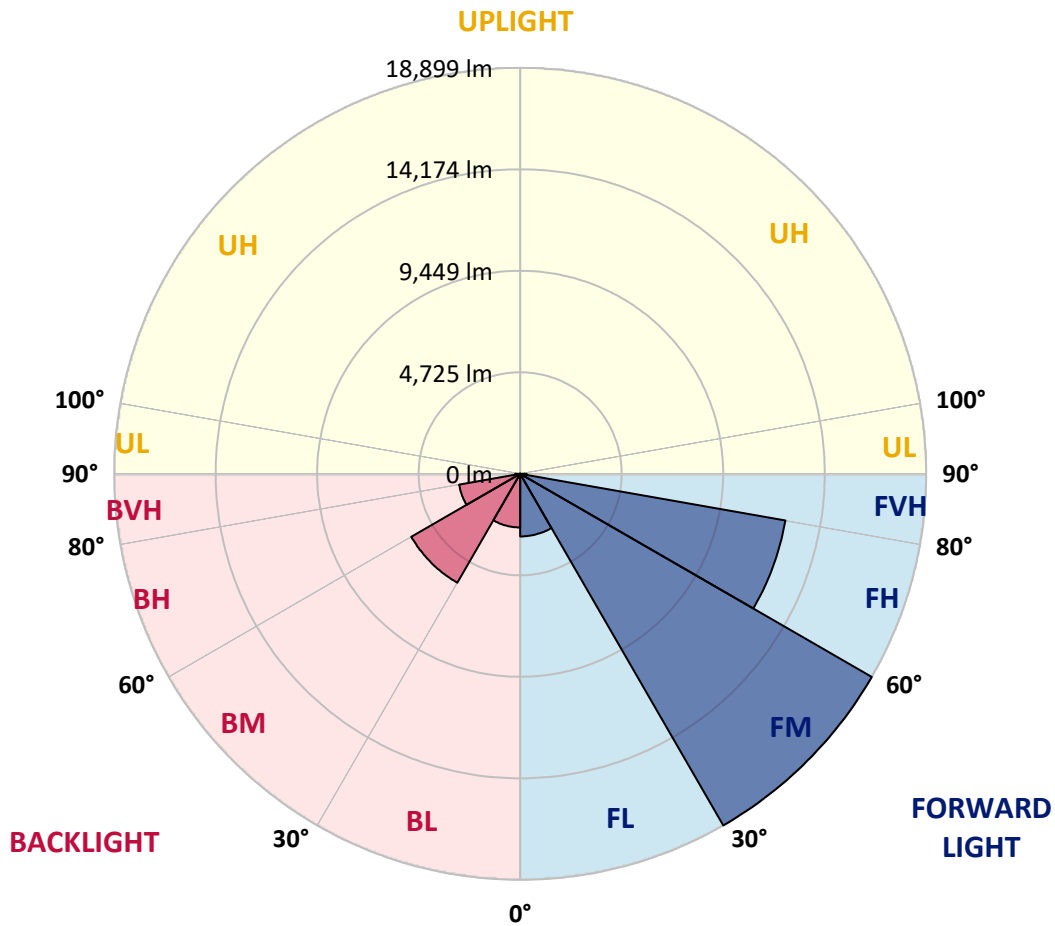
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.2	6.3			
FM (30°-60°)	18898.8	41.0			
FH (60°-80°)	12536.1	27.2			G5
FVH (80°-90°)	301.8	0.7			G3/500
BL (0°-30°)	2498.0	5.4	B3/2500		
BM (30°-60°)	5852.9	12.7	B4/8500		
BH (60°-80°)	2885.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	230.5	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°	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1
2.5°	5061.8	5090.9	5083.6	5071.5	5069.1	5073.9	5081.2	5088.4	5086.0	5098.1
5°	5047.2	5076.3	5073.9	5073.9	5083.6	5103.0	5115.1	5127.2	5115.1	5129.6
7.5°	5056.9	5078.7	5088.4	5098.1	5122.4	5158.7	5187.8	5214.4	5199.9	5216.9
10°	5180.5	5197.5	5207.2	5207.2	5224.1	5265.3	5294.4	5342.9	5330.7	5357.4
12.5°	5405.9	5422.8	5422.8	5413.1	5425.2	5451.9	5461.6	5514.9	5493.1	5536.7
15°	5682.1	5716.0	5689.4	5672.4	5677.2	5703.9	5701.5	5742.7	5720.9	5757.2
17.5°	5987.4	6031.0	5987.4	5985.0	5975.3	6004.4	6006.8	6043.1	6004.4	6031.0
20°	6348.4	6409.0	6372.7	6384.8	6363.0	6375.1	6387.2	6440.5	6379.9	6399.3
22.5°	6857.3	6930.0	6891.2	6937.2	6922.7	6913.0	6910.6	7005.1	6910.6	6917.9
25°	7598.7	7686.0	7618.1	7681.1	7681.1	7712.6	7749.0	7870.1	7712.6	7666.6
27.5°	8694.0	8781.2	8647.9	8686.7	8674.6	8752.1	8713.4	9013.8	8844.2	8769.1
30°	10012.1	10167.2	9915.2	9905.5	9893.4	10017.0	10072.7	10271.4	10099.3	10024.2
32.5°	11436.9	11599.2	11298.8	11211.5	11165.5	11240.6	11194.6	11354.5	11235.8	11119.5
35°	12944.0	13103.9	12818.0	12648.4	12464.3	12306.8	12142.0	12183.2	12071.7	11894.8
37.5°	14368.8	14662.0	14359.1	14177.4	13838.1	13530.4	13070.0	12878.6	12774.4	12612.1
40°	15820.2	15987.4	15757.2	15602.1	15233.8	14751.6	14015.0	13610.4	13469.8	13312.3
42.5°	16888.8	17048.7	16925.1	16818.5	16530.2	15970.4	15018.2	14511.8	14308.2	14131.3
45°	17736.9	17855.6	17778.0	17816.8	17693.2	17150.5	16057.7	15478.6	15267.7	15052.1
47.5°	18078.5	18204.5	18328.1	18558.3	18769.1	18369.3	17174.7	16525.3	16302.4	16081.9
50°	18039.7	18168.2	18526.8	19016.2	19670.5	19537.2	18352.3	17639.9	17434.0	17182.0
52.5°	17729.6	17875.0	18335.4	19149.5	20191.4	20411.9	19551.7	18790.9	18597.0	18296.6
55°	16915.4	17002.7	17693.2	18846.6	20315.0	21022.5	20726.9	20017.0	19823.1	19403.9
57.5°	15405.9	15531.9	16537.4	18030.0	20004.8	21436.9	21759.1	21306.0	21119.5	20516.1
60°	13435.9	13637.0	14788.0	16658.6	19214.9	21434.5	22696.9	22573.3	22418.2	21611.3
62.5°	11206.7	11439.3	12546.6	14720.1	17833.8	20826.3	23283.3	23634.6	23554.6	22621.8
65°	8606.7	8766.7	9869.2	12212.3	15684.5	19520.2	23351.1	24359.1	24373.6	23389.9
67.5°	5730.6	6190.9	7148.0	9164.0	12805.9	17385.5	22755.0	24477.8	24618.4	23654.0
70°	2796.2	3402.0	4339.7	5955.9	9164.0	14111.9	21197.0	23503.8	23816.3	22883.5
72.5°	1160.6	1356.9	1868.2	2939.2	5260.5	9522.7	18066.4	20862.6	21441.7	20276.2
75°	782.7	848.1	1068.6	1507.1	2396.4	4695.9	13028.8	15556.1	16489.0	15313.8
77.5°	603.3	644.5	777.8	1054.0	1424.8	1776.1	6973.6	9374.8	9857.0	9125.3
80°	474.9	506.4	581.5	768.1	1010.4	949.8	2377.0	4247.6	4526.3	3796.9
82.5°	411.9	424.0	416.8	521.0	671.2	554.9	780.2	1567.7	1730.1	1255.1
85°	298.0	332.0	346.5	322.3	356.2	281.1	319.8	554.9	610.6	545.2
87.5°	121.2	179.3	220.5	208.4	130.8	80.0	99.3	162.3	186.6	203.5
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°
5115.1	0°	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1	5115.1
5117.5	2.5°	5119.9	5136.9	5149.0	5163.6	5173.2	5187.8	5216.9	5233.8	5236.2	5248.4
5156.3	5°	5166.0	5190.2	5216.9	5255.6	5299.2	5335.6	5391.3	5430.1	5444.6	5456.7
5250.8	7.5°	5265.3	5299.2	5347.7	5415.6	5478.6	5527.0	5594.9	5640.9	5686.9	5703.9
5401.0	10°	5413.1	5461.6	5531.9	5623.9	5691.8	5754.8	5825.1	5863.8	5909.9	5929.2
5580.3	12.5°	5597.3	5648.2	5740.2	5868.7	5931.7	5975.3	5999.5	5989.8	5999.5	6016.5
5796.0	15°	5808.1	5863.8	5968.0	6106.1	6149.7	6111.0	6057.7	6009.2	6001.9	6006.8
6057.7	17.5°	6057.7	6098.9	6220.0	6336.3	6304.8	6144.9	6028.6	5951.1	5912.3	5900.2
6392.1	20°	6406.6	6406.6	6505.9	6578.6	6367.8	6096.4	5914.7	5788.7	5708.7	5674.8
6847.6	22.5°	6830.6	6791.9	6854.9	6804.0	6355.7	5960.7	5708.7	5490.7	5369.5	5321.1
7484.9	25°	7368.5	7322.5	7305.5	6990.5	6268.5	5745.1	5335.6	5071.5	4964.9	4938.2
8403.2	27.5°	8180.3	8064.0	7843.5	7092.3	6108.6	5405.9	4899.4	4654.7	4594.1	4596.6
9583.2	30°	9261.0	9028.3	8488.0	7109.3	5846.9	4926.1	4453.6	4279.1	4250.1	4262.2
10574.3	32.5°	10261.7	10041.2	9147.1	7031.7	5444.6	4456.0	4053.8	3937.5	3893.9	3908.4
11330.3	35°	11046.8	10986.2	9757.7	6922.7	4950.3	4015.0	3695.2	3595.8	3511.0	3491.6
12042.6	37.5°	11788.2	11764.0	10215.7	6770.1	4460.9	3702.4	3406.8	3276.0	3152.4	3084.6
12830.1	40°	12602.4	12578.1	10516.1	6535.0	4027.1	3431.1	3147.6	2975.5	2822.9	2699.3
13721.8	42.5°	13518.3	13375.3	10659.1	6198.2	3658.8	3200.9	2936.8	2704.1	2503.0	2389.1
14729.8	45°	14519.0	14196.8	10656.7	5769.3	3348.7	2990.1	2711.4	2381.9	2195.3	2088.7
15764.5	47.5°	15580.3	14981.8	10525.8	5294.4	3048.2	2757.5	2362.5	2110.5	1986.9	1921.5
16888.8	50°	16675.6	15716.0	10302.9	4749.2	2740.5	2493.3	2144.4	1972.4	1877.9	1817.3
18003.4	52.5°	17705.4	16382.4	10033.9	4131.3	2427.9	2236.5	2047.5	1914.2	1814.9	1747.0
19084.1	55°	18662.5	16956.6	9653.5	3498.9	2173.5	2064.5	2001.5	1890.0	1776.1	1696.1
20181.7	57.5°	19513.0	17329.8	8996.8	2905.3	1991.8	1945.7	1953.0	1848.8	1718.0	1650.1
21262.4	60°	20220.5	17603.6	8025.2	2355.2	1844.0	1829.4	1877.9	1771.3	1618.6	1541.1
22175.9	62.5°	20644.5	17598.7	6833.1	1928.8	1718.0	1722.8	1778.5	1674.3	1519.3	1446.6
22653.3	65°	20608.2	17167.4	5524.6	1650.1	1596.8	1601.6	1674.3	1567.7	1436.9	1393.3
22413.4	67.5°	19878.8	16115.8	4237.9	1468.4	1463.5	1485.3	1570.1	1495.0	1386.0	1381.1
20983.8	70°	17904.0	13932.6	3053.1	1323.0	1325.4	1356.9	1468.4	1449.0	1359.3	1369.0
17642.4	72.5°	14356.7	10622.7	2049.9	1170.3	1172.8	1223.6	1371.5	1412.6	1332.7	1461.1
12517.6	75°	9561.4	6624.7	1318.1	1008.0	1010.4	1075.8	1286.6	1342.4	1260.0	1456.3
6513.2	77.5°	4594.1	2978.0	954.7	848.1	848.1	908.7	1112.2	1201.8	1073.4	1131.6
2093.5	80°	1587.1	1119.5	751.2	683.3	668.8	710.0	937.7	1041.9	925.6	852.9
683.3	82.5°	625.2	581.5	603.3	530.7	482.2	508.8	729.3	860.2	680.9	615.5
385.3	85°	358.6	378.0	426.5	351.3	278.7	312.6	535.5	617.9	513.7	453.1
126.0	87.5°	96.9	133.3	196.3	181.7	126.0	133.3	254.4	341.7	295.6	227.8
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°
5115.1
5245.9
5454.3
5706.3
5938.9
6021.3
6023.7
5917.1
5667.6
5313.8
4943.1
4603.8
4303.4
3927.8
3506.2
3087.0
2711.4
2396.4
2083.8
1907.0
1795.5
1718.0
1664.6
1606.5
1507.1
1424.8
1390.8
1388.4
1366.6
1480.5
1468.4
1037.1
799.6
613.0
462.8
235.0
0.0

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