

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: P956753

Luminaire Tested: **GALN-SB9B-760-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956753
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-SB9B-760-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54990 lumens
Efficiency: N/A
Efficacy: 166.9 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

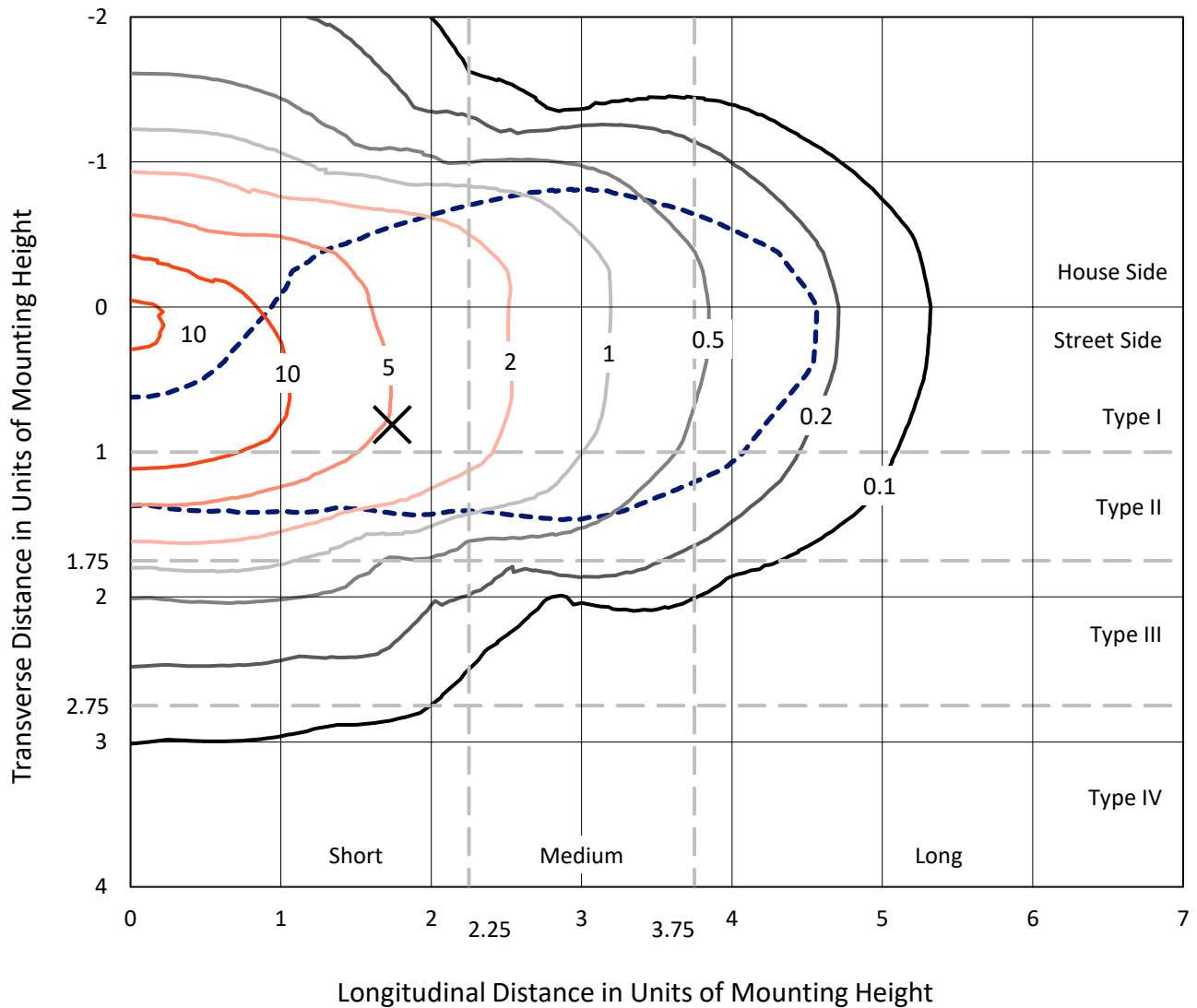
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

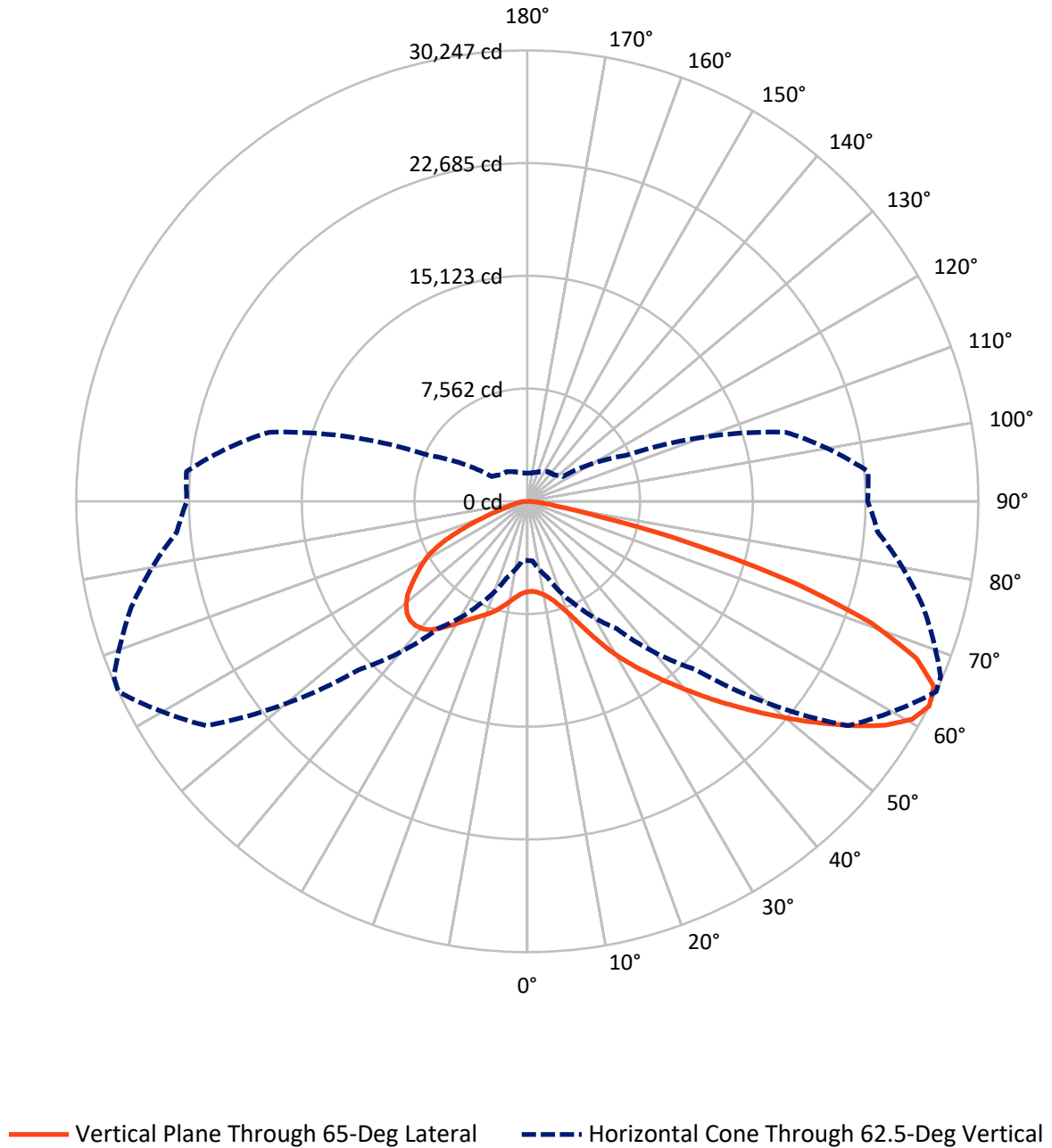
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	17352.4	0.0	17352.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	37637.6	0.0	37637.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	54990.0	0.0	54990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	1.1
10°-20°	2048.7	3.7
20°-30°	4154.0	7.6
30°-40°	7188.3	13.1
40°-50°	10878.2	19.8
50°-60°	12754.0	23.2
60°-70°	10692.7	19.4
70°-80°	5903.2	10.7
80°-90°	766.8	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°	54990.0	100.0
0°-180°	54990.0	100.0

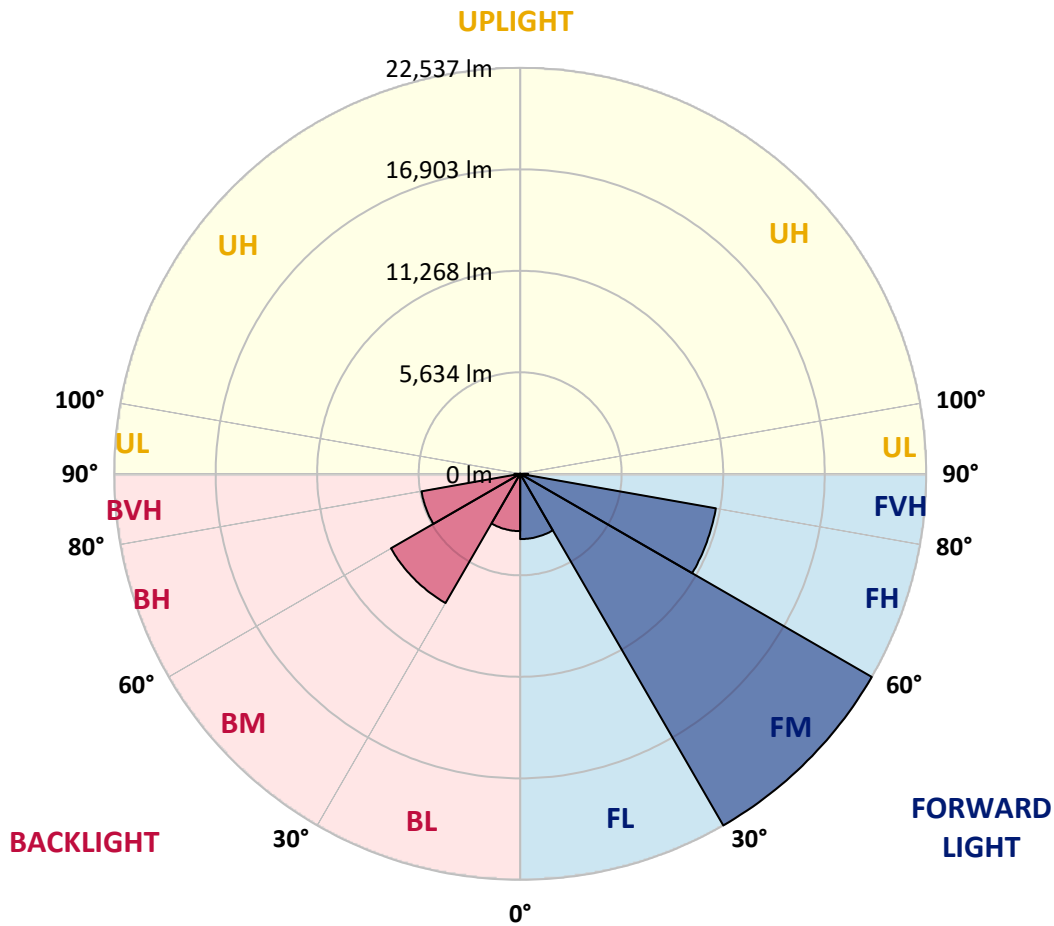


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3624.6	6.6			
FM (30°-60°)	22536.7	41.0			
FH (60°-80°)	11029.4	20.1			G4/12000
FVH (80°-90°)	446.9	0.8			G3/500
BL (0°-30°)	3182.2	5.8	B4/5000		
BM (30°-60°)	8283.8	15.1	B4/8500		
BH (60°-80°)	5566.5	10.1	B5		G5
BVH (80°-90°)	319.9	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°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6019.7	6002.6	6016.9	6016.9	6022.6	6019.7	6039.7	6045.4	6054.0	6071.1
5°	5959.8	5957.0	5982.6	6005.5	6028.3	6048.2	6073.9	6111.0	6116.7	6136.7
7.5°	5939.8	5922.7	5962.7	5991.2	6045.4	6093.9	6162.4	6225.1	6250.8	6259.4
10°	6093.9	6065.4	6102.5	6119.6	6165.2	6213.7	6293.6	6393.5	6422.0	6456.2
12.5°	6356.4	6325.0	6379.2	6404.9	6447.7	6490.5	6544.7	6641.7	6655.9	6718.7
15°	6715.8	6678.7	6713.0	6744.4	6815.7	6855.6	6909.8	7004.0	7004.0	7052.5
17.5°	7203.7	7155.2	7180.9	7192.3	7237.9	7297.8	7389.1	7471.9	7514.7	7497.5
20°	7931.2	7871.3	7871.3	7814.2	7797.1	7845.6	7965.4	8079.5	8125.2	8036.8
22.5°	9023.9	8938.3	8889.8	8695.8	8618.8	8624.5	8744.3	8884.1	8921.2	8764.3
25°	10413.3	10279.2	10213.6	9928.3	9754.2	9603.0	9697.2	9876.9	9928.3	9734.3
27.5°	11802.6	11811.2	11748.4	11406.1	11117.9	10841.2	10792.7	10981.0	11035.2	10815.5
30°	13751.2	13548.6	13428.8	13018.0	12607.2	12219.2	12019.5	12096.5	12110.8	11848.3
32.5°	15431.6	15380.2	15123.5	14764.0	14236.2	13628.5	13294.7	13172.1	13149.2	12775.5
35°	17345.9	17317.4	17046.4	16618.4	16047.8	15203.4	14601.4	14250.5	14221.9	13697.0
37.5°	19291.6	19291.6	19026.3	18558.4	17967.9	16912.3	15996.5	15440.1	15348.9	14664.1
40°	20843.6	20749.5	20798.0	20601.1	19925.0	18803.8	17545.6	16738.2	16615.6	15793.9
42.5°	21725.2	21693.8	21984.8	22204.5	21927.8	21031.9	19251.7	18144.7	17973.6	17037.8
45°	21922.0	21887.8	22407.0	23211.6	23599.6	23231.5	21106.1	19625.4	19417.2	18338.7
47.5°	21468.4	21400.0	22161.7	23431.3	24675.1	25322.8	23114.6	21231.6	20929.2	19605.5
50°	20104.7	20039.1	21191.7	22877.8	25037.5	26743.5	25294.2	22934.8	22472.7	20963.5
52.5°	17140.5	17171.9	18977.8	21294.4	24561.0	27627.9	27171.5	24729.3	24173.0	22352.8
55°	13351.8	13420.3	15639.9	18190.4	22655.3	27493.9	28452.4	26578.1	26024.6	23659.5
57.5°	9560.2	9862.6	11942.4	14467.3	18994.9	25368.4	28732.0	28335.5	27799.1	25086.0
60°	6196.6	6250.8	8390.5	10935.3	14464.4	21591.1	28164.3	29667.8	29248.4	26541.0
62.5°	3971.3	4008.4	5312.2	7648.8	10410.4	15973.7	26252.8	30246.9	30118.6	27502.4
65°	2918.6	2890.0	3569.0	5055.4	7012.5	9851.2	22541.1	29967.4	30221.3	28104.4
67.5°	2436.4	2396.5	2730.3	3500.6	5166.7	5594.6	16678.3	28150.0	29080.1	28035.9
70°	2219.6	2185.4	2387.9	2599.0	4031.2	3745.9	8407.6	24472.6	25904.8	27257.1
72.5°	1880.1	1820.2	2096.9	2308.0	3135.4	2872.9	3474.9	18798.1	20544.1	24760.7
75°	1457.9	1417.9	1654.7	2031.3	2356.5	2242.4	2196.8	11414.6	13320.4	19149.0
77.5°	1155.4	1101.2	1318.1	1583.4	2119.7	1691.8	1600.5	4915.6	6804.3	12224.9
80°	870.1	821.6	1001.4	1252.4	1629.0	1275.3	1035.6	2005.6	2564.8	6193.7
82.5°	619.1	576.3	699.0	918.6	1095.5	1144.0	636.2	1124.1	1263.9	2387.9
85°	396.6	370.9	467.9	576.3	696.1	736.1	388.0	587.7	644.8	984.3
87.5°	216.8	176.9	251.1	268.2	322.4	293.9	185.4	214.0	231.1	356.6
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°
6059.7	0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
6071.1	2.5°	6082.5	6091.0	6119.6	6128.1	6148.1	6173.8	6190.9	6208.0	6208.0	6225.1
6162.4	5°	6165.2	6185.2	6245.1	6276.5	6327.8	6379.2	6410.6	6447.7	6470.5	6481.9
6307.9	7.5°	6325.0	6356.4	6442.0	6496.2	6584.6	6655.9	6704.4	6755.8	6767.2	6798.6
6510.4	10°	6541.8	6578.9	6675.9	6778.6	6884.2	6972.6	7018.2	7055.3	7069.6	7075.3
6770.0	12.5°	6790.0	6844.2	6969.7	7095.3	7206.5	7283.6	7295.0	7286.4	7246.5	7212.3
7089.6	15°	7095.3	7143.8	7283.6	7420.5	7528.9	7543.2	7471.9	7426.2	7377.7	7369.2
7446.2	17.5°	7460.5	7486.1	7614.5	7748.6	7757.2	7708.7	7603.1	7560.3	7514.7	7483.3
7911.2	20°	7885.5	7877.0	7968.3	8025.3	7965.4	7817.1	7657.3	7586.0	7540.3	7503.3
8481.8	22.5°	8393.4	8327.8	8316.3	8302.1	8142.3	7831.3	7614.5	7523.2	7451.9	7400.5
9277.8	25°	9132.3	8881.2	8707.2	8610.2	8250.7	7754.3	7477.6	7275.0	7140.9	7052.5
10250.6	27.5°	10056.6	9634.4	9195.0	8958.3	8250.7	7597.4	7146.6	6818.5	6598.9	6507.6
11192.1	30°	10938.2	10496.0	9848.4	9377.6	8230.8	7340.6	6613.1	6156.7	5899.9	5808.6
11996.6	32.5°	11691.4	11209.2	10541.6	9837.0	8182.3	6924.1	5951.2	5446.3	5198.1	5089.7
12792.6	35°	12390.3	11876.8	11237.8	10341.9	8053.9	6313.6	5223.7	4838.6	4561.9	4387.8
13602.9	37.5°	13106.4	12495.9	11896.8	10798.4	7822.8	5600.3	4664.6	4336.5	4011.2	3777.3
14464.4	40°	13885.3	13154.9	12601.5	11069.4	7443.3	4921.3	4230.9	3931.4	3586.2	3337.9
15457.3	42.5°	14795.4	13945.2	13386.0	11209.2	6924.1	4439.2	3948.5	3654.6	3329.4	3126.8
16521.4	45°	15745.4	14815.4	14102.1	11206.4	6345.0	4213.8	3857.2	3566.2	3206.7	2995.6
17614.1	47.5°	16741.1	15725.4	14721.2	11023.8	5842.8	4245.2	3805.8	3375.0	2978.5	2773.1
18718.2	50°	17739.6	16721.1	15320.3	10681.4	5628.9	4176.7	3614.7	3106.9	2639.0	2453.5
19753.8	52.5°	18729.6	17779.6	15836.7	10193.6	5412.0	3922.8	3369.3	2758.8	2499.2	2370.8
20823.7	55°	19725.3	18826.6	16398.7	9483.2	4870.0	3626.1	2958.5	2627.6	2387.9	2270.9
21870.7	57.5°	20723.8	20036.2	16932.2	8772.8	4188.1	3260.9	2733.1	2467.8	2276.7	2176.8
22746.5	60°	21762.3	21419.9	17482.9	8119.5	3514.8	2793.0	2567.7	2339.4	2145.4	2034.2
23588.2	62.5°	22832.1	22943.4	17913.7	7277.9	2895.7	2507.7	2419.3	2185.4	1997.1	1891.5
24284.3	65°	23910.5	24412.7	18196.1	6111.0	2348.0	2236.7	2259.5	2017.0	1825.9	1734.6
24795.0	67.5°	24723.6	25471.1	18116.2	4624.6	1925.7	1979.9	2059.8	1840.2	1660.4	1589.1
24712.2	70°	24814.9	25345.6	17328.8	3166.8	1611.9	1728.9	1837.3	1666.1	1480.7	1429.3
23548.2	72.5°	23599.6	23633.8	15134.9	2068.4	1363.7	1517.8	1603.4	1489.2	1309.5	1258.1
20601.1	75°	20412.8	19545.5	11112.2	1363.7	1141.2	1303.8	1383.7	1303.8	1129.8	1141.2
15414.5	77.5°	15465.8	13842.5	6747.2	970.0	952.9	1095.5	1203.9	1146.9	998.5	1121.2
7751.5	80°	7968.3	7489.0	3009.9	724.6	753.2	875.9	990.0	915.8	790.3	753.2
1731.7	82.5°	1825.9	2122.6	1186.8	519.2	544.9	630.5	756.0	687.6	567.7	479.3
721.8	85°	639.1	699.0	524.9	325.2	319.5	393.7	513.5	459.3	385.1	308.1
305.3	87.5°	202.6	265.3	196.9	131.2	136.9	176.9	236.8	216.8	179.7	117.0
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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180°
6059.7
6225.1
6487.6
6787.2
7061.0
7212.3
7369.2
7486.1
7506.1
7417.7
7086.7
6553.2
5862.8
5143.9
4444.9
3840.1
3386.4
3166.8
3029.8
2801.6
2464.9
2370.8
2259.5
2159.7
2025.6
1888.7
1731.7
1591.9
1432.2
1255.3
1101.2
987.1
687.6
473.6
325.2
122.7
0.0

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