

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: P951073

Luminaire Tested: **GALN-SB5B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25404 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

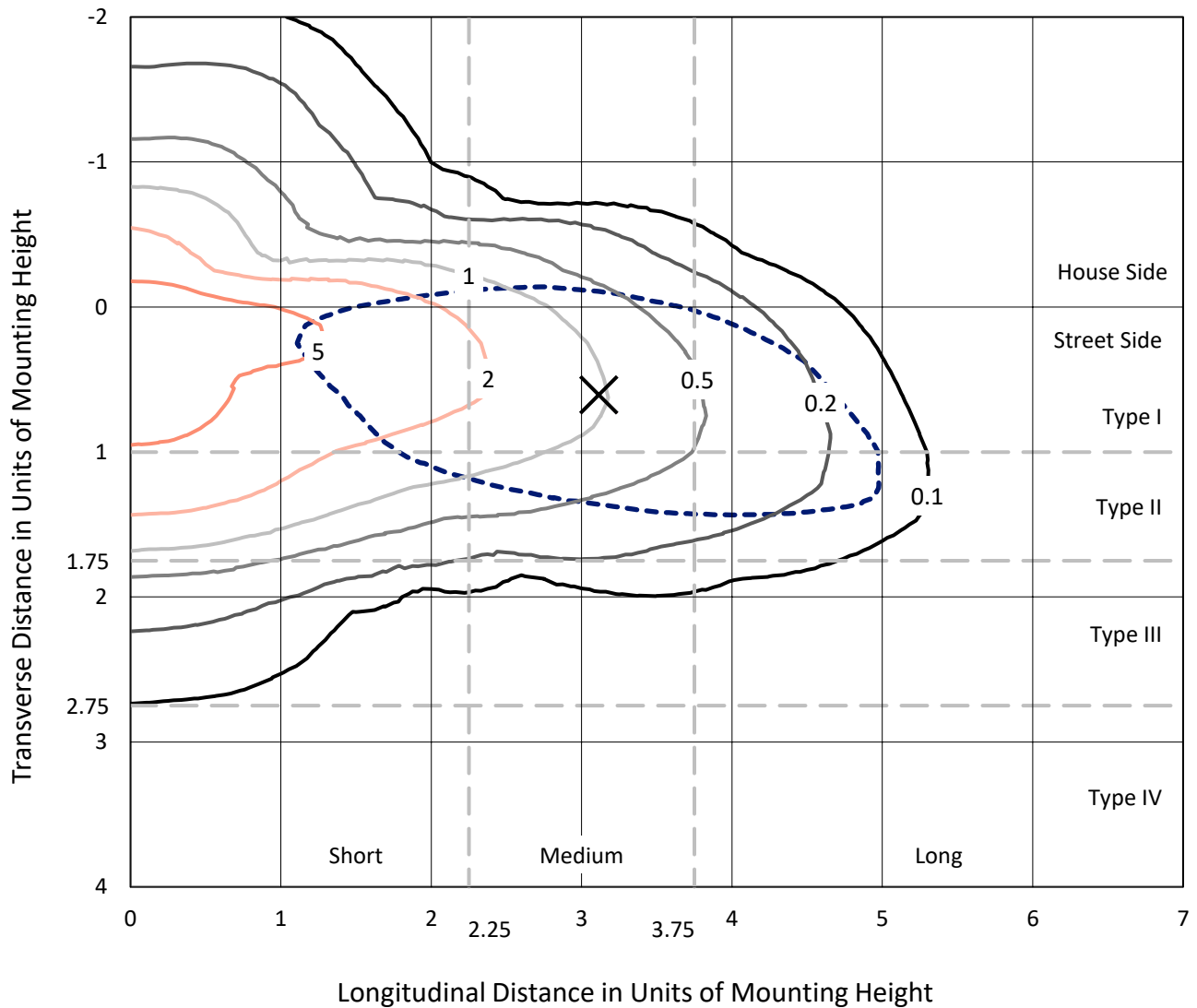
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

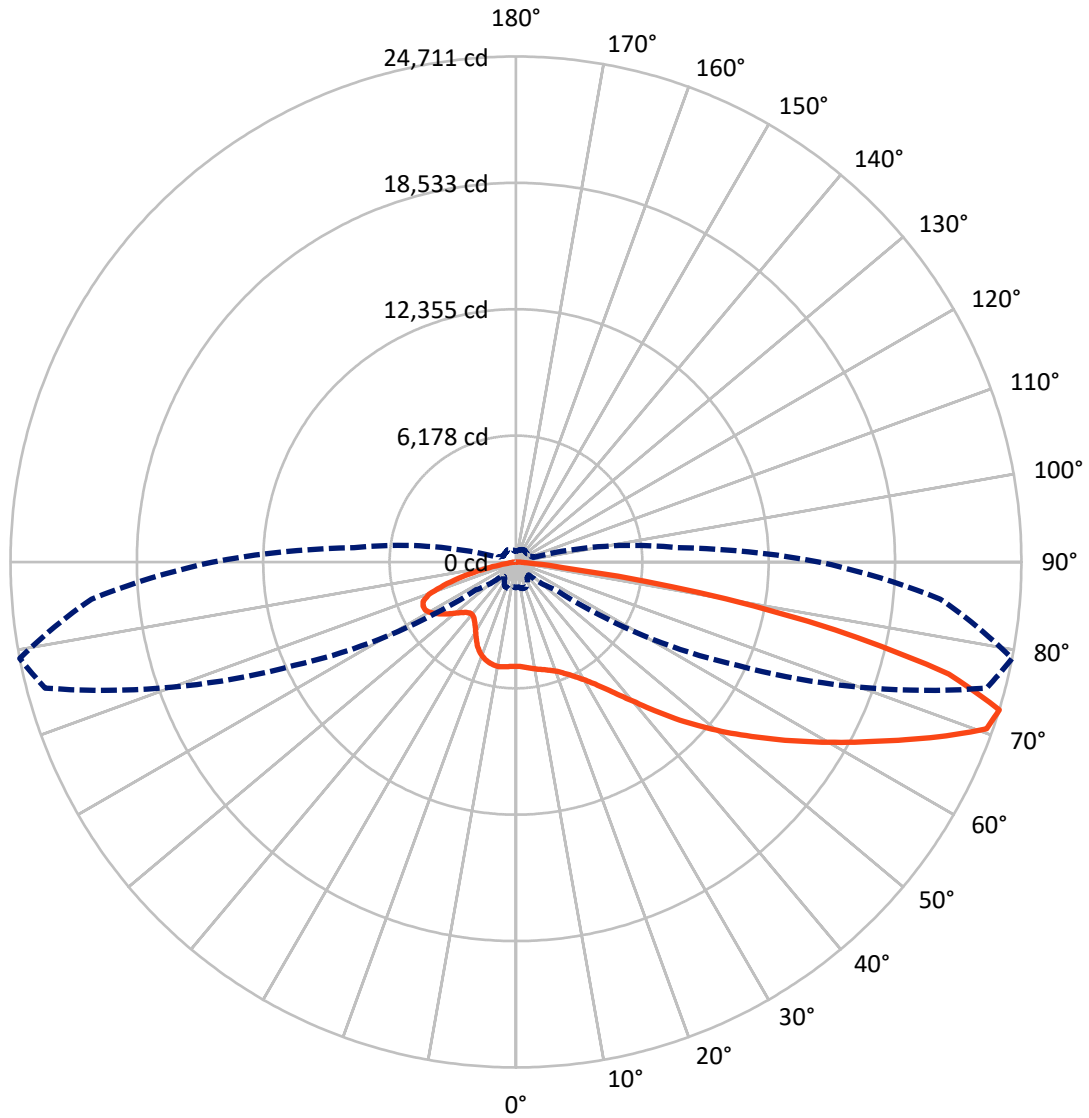
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5590.3	0.0	5590.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19813.7	0.0	19813.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	25404.0	0.0	25404.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	1.8
10°-20°	1210.2	4.8
20°-30°	1952.8	7.7
30°-40°	2930.9	11.5
40°-50°	4157.7	16.4
50°-60°	5250.6	20.7
60°-70°	5332.7	21.0
70°-80°	3634.5	14.3
80°-90°	471.5	1.9
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°	25404.0	100.0
0°-180°	25404.0	100.0



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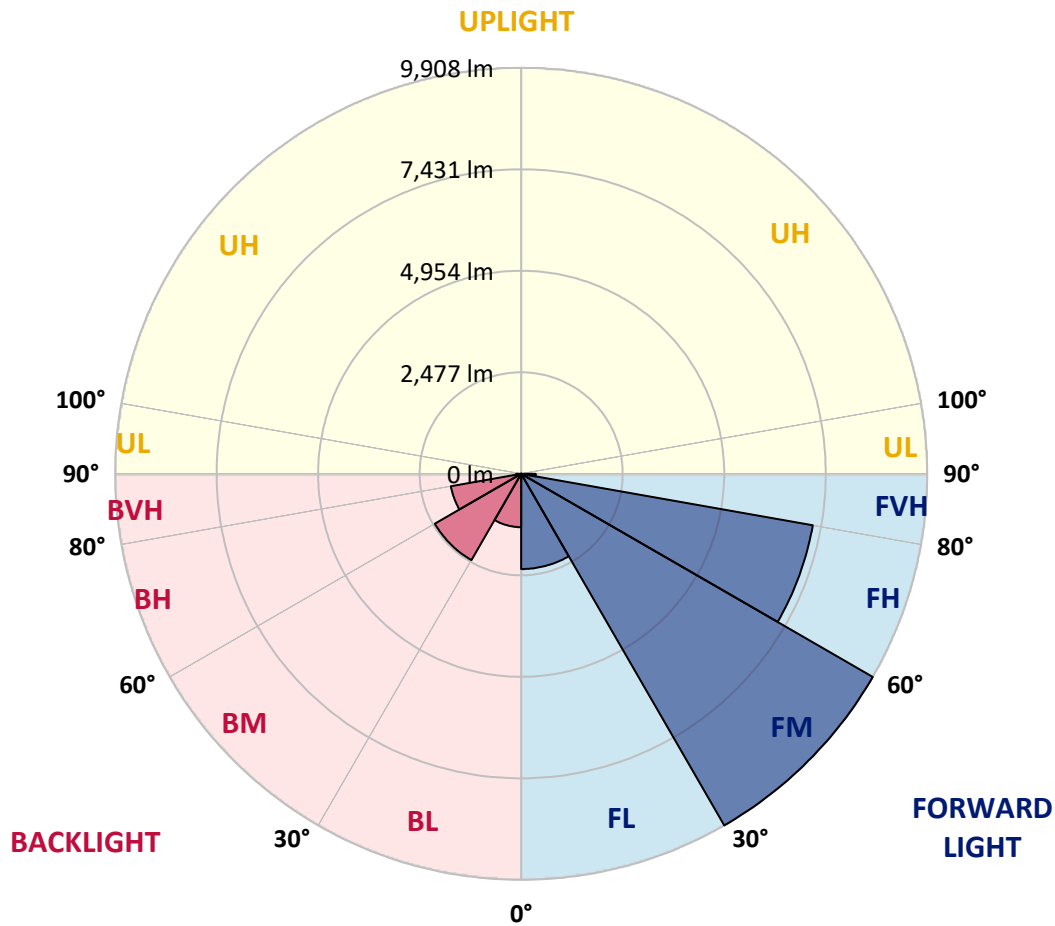
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.9	9.1			
FM (30°-60°)	9908.1	39.0			
FH (60°-80°)	7226.6	28.4			G3/7500
FVH (80°-90°)	355.2	1.4			G3/500
BL (0°-30°)	1302.1	5.1	B3/2500		
BM (30°-60°)	2431.2	9.6	B2/2500		
BH (60°-80°)	1740.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	116.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6
2.5°	5102.3	5078.1	5092.9	5087.5	5094.2	5102.3	5105.0	5109.0	5122.5	5121.1
5°	5091.5	5067.4	5087.5	5080.8	5098.3	5117.1	5133.2	5148.0	5169.5	5178.9
7.5°	5068.7	5052.6	5072.7	5092.9	5125.1	5153.4	5176.2	5209.8	5240.7	5246.1
10°	4935.7	4923.6	4970.6	5023.0	5111.7	5188.3	5238.0	5277.0	5310.6	5316.0
12.5°	4797.3	4782.5	4834.9	4906.1	5049.9	5188.3	5293.1	5344.2	5373.7	5391.2
15°	4774.4	4762.3	4791.9	4853.7	4973.3	5152.0	5330.7	5424.8	5450.3	5470.5
17.5°	4884.6	4861.8	4873.9	4895.4	4965.2	5118.4	5360.3	5516.2	5555.1	5576.7
20°	5139.9	5107.7	5088.9	5045.9	5033.8	5123.8	5357.6	5626.4	5677.4	5704.3
22.5°	5479.9	5458.4	5418.1	5309.2	5191.0	5189.6	5408.7	5767.5	5862.9	5888.4
25°	5891.1	5858.8	5807.8	5660.0	5432.9	5320.0	5494.7	5947.5	6107.4	6114.2
27.5°	6364.1	6315.7	6245.8	6051.0	5744.6	5524.2	5626.4	6154.5	6388.3	6385.6
30°	6862.6	6814.3	6740.4	6503.9	6118.2	5799.7	5809.1	6377.5	6721.5	6706.8
32.5°	7226.8	7190.5	7175.7	6993.0	6548.2	6124.9	6018.8	6624.8	7132.7	7119.3
35°	7506.3	7459.3	7476.7	7384.0	7017.2	6489.1	6275.4	6919.1	7632.6	7631.3
37.5°	7783.1	7741.5	7756.2	7694.4	7451.2	6951.3	6588.5	7279.2	8252.1	8281.7
40°	8035.8	7991.4	8050.5	7992.8	7788.5	7443.1	6944.6	7686.4	8969.7	9026.1
42.5°	8187.6	8152.7	8250.8	8252.1	8081.4	7858.4	7335.6	8135.2	9800.1	9926.4
45°	8240.0	8227.9	8375.7	8406.6	8340.8	8098.9	7687.7	8624.3	10695.1	10920.8
47.5°	8183.6	8160.7	8365.0	8479.2	8531.6	8211.8	7979.3	9153.8	11608.8	11939.4
50°	7898.7	7854.3	8158.0	8398.6	8585.4	8285.7	8273.6	9765.2	12647.6	13009.0
52.5°	7386.7	7353.1	7698.5	8116.4	8467.1	8322.0	8604.2	10433.0	13633.9	14101.5
55°	6732.3	6687.9	7068.2	7613.8	8172.8	8309.9	8934.7	11180.2	14797.6	15272.0
57.5°	5694.9	5606.2	6087.3	6732.3	7693.1	8295.1	9278.7	11923.3	15980.1	16548.5
60°	4181.8	4050.1	4640.0	5404.6	6755.1	8151.3	9704.7	12756.4	17399.1	17911.1
62.5°	2434.9	2358.3	2744.0	3457.5	5091.5	7304.7	9943.9	13725.3	18794.0	19331.5
65°	1890.7	1869.2	1902.8	1957.9	2834.0	5469.1	9206.2	14669.9	20567.8	20944.0
67.5°	1729.4	1713.3	1728.1	1624.6	1437.8	3046.3	7283.2	14909.1	22467.9	22696.3
70°	1537.3	1518.5	1566.8	1478.1	1131.5	1385.4	4705.9	14041.1	23979.6	24408.3
72.5°	1252.4	1230.9	1343.8	1303.5	952.7	889.6	2363.7	11978.4	23821.0	24710.6
75°	962.1	950.0	1084.4	1118.0	776.7	700.1	1134.1	8903.8	20962.8	21859.1
77.5°	747.1	737.7	806.3	928.5	626.2	542.9	697.4	5647.9	15797.4	15954.6
80°	560.4	533.5	596.6	718.9	487.8	396.4	473.0	3293.6	9985.6	9051.6
82.5°	350.7	337.3	389.7	479.7	344.0	272.8	307.7	1819.5	4001.8	2357.0
85°	200.2	194.8	212.3	274.1	186.8	157.2	176.0	803.6	731.0	502.6
87.5°	80.6	77.9	96.8	122.3	68.5	57.8	61.8	193.5	161.3	149.2
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°
5099.6	0°	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6
5119.8	2.5°	5114.4	5114.4	5095.6	5066.0	5032.4	5010.9	4976.0	4966.6	4930.3	4919.5
5165.5	5°	5176.2	5165.5	5107.7	5024.4	4910.1	4805.3	4689.8	4617.2	4515.1	4478.8
5255.5	7.5°	5254.1	5224.6	5125.1	4942.4	4703.2	4468.0	4223.5	4038.0	3860.7	3797.5
5329.4	10°	5325.4	5283.7	5114.4	4794.6	4380.7	3973.5	3583.8	3311.1	3104.1	3019.5
5411.4	12.5°	5396.6	5320.0	5043.2	4548.7	3922.5	3370.2	2955.0	2742.6	2615.0	2512.9
5478.6	15°	5463.8	5356.3	4933.0	4219.4	3419.9	2859.5	2553.2	2383.8	2281.7	2214.5
5576.7	17.5°	5541.7	5387.2	4767.7	3801.5	2941.5	2506.1	2256.2	2154.1	2133.9	2125.8
5711.0	20°	5650.6	5415.4	4550.0	3333.9	2589.4	2223.9	2094.9	2085.5	2084.2	2080.2
5872.3	22.5°	5767.5	5449.0	4262.4	2909.3	2289.8	2047.9	2025.1	2006.3	1994.2	1992.8
6067.1	25°	5905.9	5459.7	3902.3	2561.2	2034.5	1964.6	1937.7	1909.5	1901.4	1901.4
6288.8	27.5°	6040.3	5423.5	3483.1	2258.9	1890.7	1888.0	1853.1	1843.7	1842.3	1846.3
6541.5	30°	6174.6	5354.9	3066.5	1979.4	1807.4	1807.4	1795.3	1802.0	1807.4	1820.8
6888.2	32.5°	6356.0	5282.4	2718.4	1772.4	1734.8	1721.4	1733.5	1746.9	1752.3	1769.7
7343.7	35°	6622.1	5231.3	2441.6	1659.6	1659.6	1642.1	1648.8	1646.1	1634.0	1626.0
7894.7	37.5°	6974.2	5228.6	2213.2	1607.2	1596.4	1593.7	1595.1	1577.6	1530.6	1474.1
8561.2	40°	7397.5	5301.2	2037.2	1570.9	1562.8	1578.9	1570.9	1523.8	1394.8	1296.7
9380.9	42.5°	7965.9	5508.1	1924.3	1526.5	1550.7	1570.9	1538.6	1376.0	1288.7	1222.8
10314.8	45°	8635.1	5844.1	1866.5	1479.5	1527.9	1552.1	1396.2	1325.0	1255.1	1175.8
11333.4	47.5°	9393.0	6267.3	1853.1	1435.1	1476.8	1491.6	1335.7	1303.5	1224.2	1138.2
12357.3	50°	10218.0	6768.6	1889.3	1382.7	1402.9	1351.8	1315.6	1286.0	1204.0	1119.4
13406.8	52.5°	11071.3	7320.9	1961.9	1311.5	1329.0	1272.6	1307.5	1282.0	1191.9	1077.7
14491.2	55°	11909.8	7877.2	2031.8	1228.2	1253.7	1201.3	1284.6	1265.8	1136.8	1007.8
15648.2	57.5°	12761.8	8430.8	2100.3	1154.3	1181.2	1132.8	1248.4	1222.8	1075.0	943.3
16911.4	60°	13647.3	8968.3	2132.6	1083.1	1101.9	1069.6	1193.3	1148.9	1005.1	877.5
18153.0	62.5°	14476.4	9415.8	2080.2	1011.9	1024.0	1010.5	1120.7	1061.6	935.3	803.6
19447.1	65°	15308.2	9681.9	1918.9	942.0	944.7	938.0	1018.6	967.5	853.3	739.1
20579.9	67.5°	16062.1	9831.0	1662.2	866.7	860.0	857.3	923.2	865.4	774.0	674.6
21441.2	70°	16222.0	9452.1	1269.9	778.0	778.0	771.3	818.4	759.2	686.7	606.0
20824.4	72.5°	14816.4	7951.1	901.7	677.3	688.0	674.6	713.5	663.8	598.0	544.2
17947.4	75°	11947.5	5830.6	655.8	573.8	592.6	569.8	606.0	571.1	514.7	513.3
12368.1	77.5°	8209.1	3605.3	475.7	473.0	486.4	456.9	498.5	479.7	428.7	405.8
5383.1	80°	3503.2	1437.8	346.7	365.5	365.5	338.6	387.0	392.4	348.0	337.3
1038.7	82.5°	697.4	408.5	243.2	251.3	236.5	228.4	274.1	303.7	419.3	466.3
313.1	85°	209.6	150.5	146.5	137.1	120.9	122.3	161.3	305.0	376.3	215.0
103.5	87.5°	57.8	37.6	39.0	30.9	25.5	33.6	55.1	231.1	126.3	53.8
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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<u>180°</u>
5099.6
4937.0
4505.7
3805.6
3038.3
2546.4
2226.6
2131.2
2093.6
2007.6
1909.5
1857.1
1830.2
1784.5
1644.8
1475.5
1294.1
1220.1
1170.4
1131.5
1110.0
1069.6
1001.1
940.6
873.5
802.2
731.0
666.5
603.4
528.1
462.3
380.3
337.3
467.6
185.4
45.7
0.0

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