

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: P956794

Luminaire Tested: **GALN-SB9B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
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-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

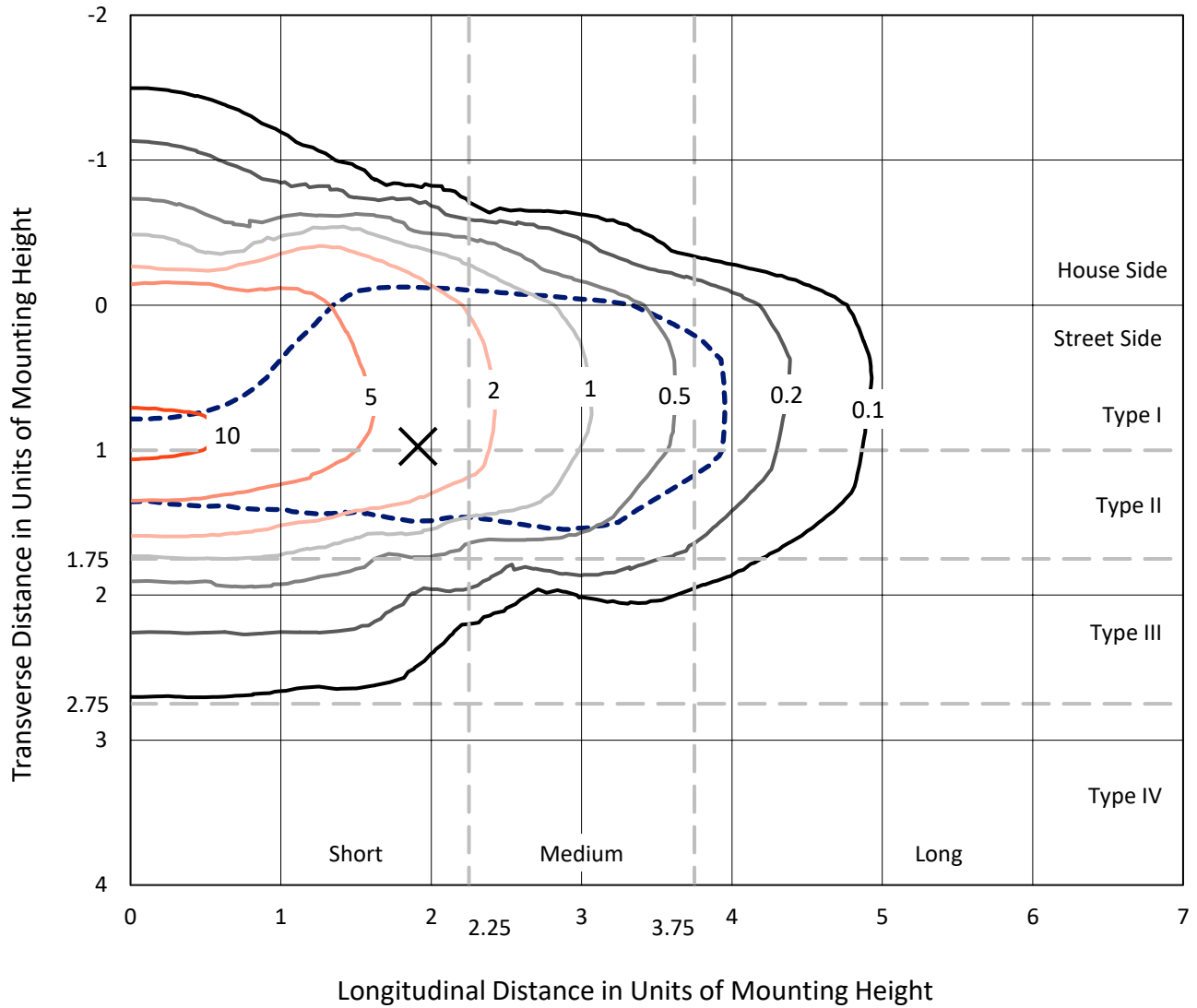
Lumens per Lamp: N/A  
Luminaire Lumens: 35221 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

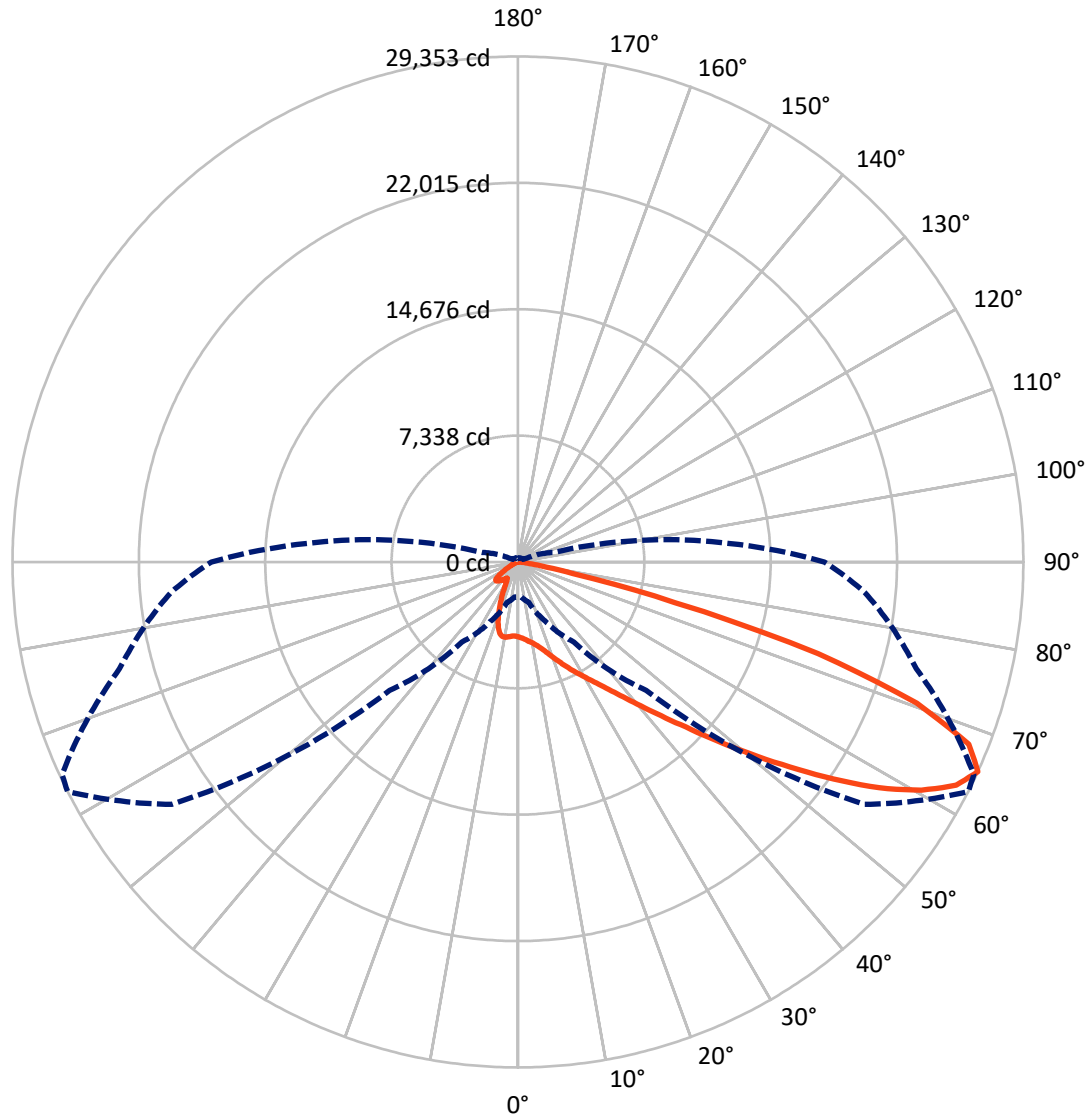
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5177.2	0.0	5177.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	30043.8	0.0	30043.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	35221.0	0.0	35221.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.6	1.2
10°-20°	1136.4	3.2
20°-30°	1978.7	5.6
30°-40°	3566.5	10.1
40°-50°	7073.5	20.1
50°-60°	9635.2	27.4
60°-70°	7690.8	21.8
70°-80°	3480.2	9.9
80°-90°	250.2	0.7
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°	35221.0	100.0
0°-180°	35221.0	100.0

**Coefficient of Utilization**



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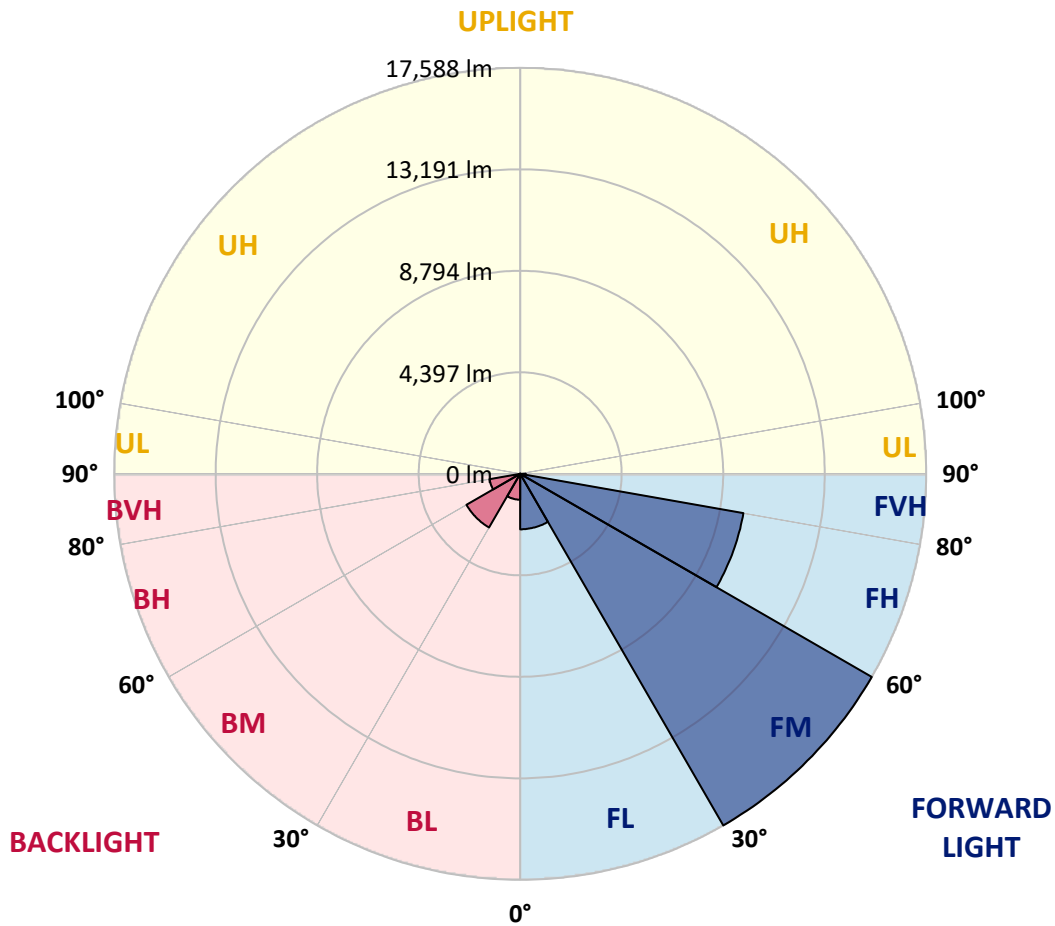
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.3	6.8			
FM (30°-60°)	17588.5	49.9			
FH (60°-80°)	9819.4	27.9			G4/12000
FVH (80°-90°)	231.6	0.7			G3/500
BL (0°-30°)	1120.4	3.2	B3/2500		
BM (30°-60°)	2686.7	7.6	B3/5000		
BH (60°-80°)	1351.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9
2.5°	4448.7	4436.6	4453.6	4446.3	4441.4	4431.7	4426.9	4422.1	4412.4	4405.1
5°	4460.8	4453.6	4470.5	4485.1	4499.6	4514.1	4521.4	4531.1	4521.4	4502.0
7.5°	4359.1	4354.2	4390.6	4434.2	4499.6	4555.3	4615.9	4649.8	4652.2	4645.0
10°	4351.8	4339.7	4376.0	4429.3	4514.1	4613.5	4720.1	4792.8	4802.5	4834.0
12.5°	4465.7	4453.6	4504.4	4562.6	4649.8	4754.0	4884.9	4986.6	5001.2	5044.8
15°	4657.1	4640.1	4698.3	4773.4	4884.9	5003.6	5141.7	5233.8	5245.9	5299.2
17.5°	4880.0	4863.0	4930.9	5010.9	5132.0	5294.3	5454.3	5556.0	5570.6	5604.5
20°	5165.9	5144.1	5197.4	5270.1	5398.5	5592.4	5783.8	5929.2	5926.8	5926.8
22.5°	5497.9	5464.0	5510.0	5568.1	5689.3	5924.3	6178.8	6350.8	6350.8	6282.9
25°	5854.1	5820.1	5871.0	5924.3	6031.0	6297.5	6595.5	6808.7	6818.4	6702.1
27.5°	6299.9	6256.3	6295.1	6358.1	6421.1	6692.4	7046.2	7293.4	7298.2	7118.9
30°	7157.7	7034.1	6912.9	6845.1	6874.2	7143.1	7521.1	7794.9	7819.2	7572.0
32.5°	8727.8	8703.6	8277.1	7719.8	7429.0	7627.7	8051.8	8381.3	8395.8	8078.4
35°	11167.8	11138.7	10453.0	9391.7	8444.3	8277.1	8696.3	9086.4	9076.7	8718.1
37.5°	14080.3	14053.6	13149.8	11729.9	10196.2	9258.4	9527.4	9936.9	9997.5	9527.4
40°	16568.8	16469.4	15897.6	14528.6	12522.3	10886.7	10709.8	10981.2	11044.2	10486.9
42.5°	18453.9	18369.1	18078.3	17223.0	15337.9	13295.2	12103.1	12207.3	12277.6	11608.8
45°	19430.4	19411.0	19527.3	19447.3	18206.7	16251.3	14094.8	13661.1	13687.8	12851.8
47.5°	19568.5	19558.8	20089.4	20840.6	20673.4	19585.4	16651.1	15473.5	15379.0	14254.8
50°	18754.3	18735.0	19752.6	21160.4	22321.1	22386.5	19553.9	17516.2	17307.8	15706.2
52.5°	16154.4	16149.6	17821.5	20164.6	22900.2	24838.6	22422.8	19759.9	19411.0	17242.4
55°	12430.2	12519.9	14436.5	17206.0	21843.7	26018.6	24998.5	22250.8	21715.3	18788.3
57.5°	8805.3	8936.2	10831.0	13297.7	18567.8	25320.8	26740.7	24746.5	24169.8	20329.3
60°	4729.8	4846.1	6743.3	9687.3	13813.8	22718.4	27659.0	26912.7	26367.5	21792.8
62.5°	2818.0	2856.8	3641.8	6253.9	9343.2	17356.2	27268.9	28562.8	28114.6	23021.3
65°	2023.2	2030.5	2425.5	3818.7	5672.3	10545.1	24533.3	29352.7	29214.6	23946.9
67.5°	1703.4	1698.6	1863.3	2536.9	3864.8	5282.2	18802.8	28235.7	28822.1	24533.3
70°	1461.1	1468.4	1662.2	1858.5	2905.2	2990.0	9348.1	24584.2	25834.5	24688.4
72.5°	1087.9	1112.2	1291.5	1693.7	2192.9	2057.2	3227.5	18228.5	20489.2	23261.2
75°	768.1	780.2	908.6	1424.7	1635.6	1497.4	1647.7	9423.2	12321.2	17833.6
77.5°	591.2	613.0	688.1	995.9	1611.3	1051.6	1008.0	3261.4	5010.9	10772.8
80°	319.8	358.6	496.7	719.6	1131.6	743.9	499.1	1298.8	1698.6	5037.5
82.5°	164.8	184.2	346.5	518.5	644.5	649.4	247.2	540.3	700.3	1555.6
85°	65.4	80.0	232.6	285.9	332.0	319.8	111.5	218.1	252.0	431.3
87.5°	14.5	24.2	84.8	65.4	63.0	67.8	26.7	50.9	48.5	50.9
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°
4346.9	0°	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9	4346.9
4376.0	2.5°	4373.6	4363.9	4337.2	4308.2	4274.2	4254.9	4242.7	4240.3	4223.4	4211.2
4472.9	5°	4446.3	4436.6	4385.7	4325.1	4259.7	4208.8	4160.4	4116.7	4053.7	4041.6
4613.5	7.5°	4591.7	4565.0	4482.6	4400.2	4276.7	4128.9	3949.6	3743.6	3559.4	3503.7
4800.0	10°	4771.0	4734.6	4630.4	4485.1	4211.2	3809.0	3375.3	2973.1	2653.2	2563.6
5020.5	12.5°	4974.5	4943.0	4804.9	4535.9	3937.4	3208.1	2544.2	2045.0	1734.9	1657.4
5255.6	15°	5216.8	5170.8	4979.4	4458.4	3448.0	2437.6	1747.0	1451.4	1339.9	1325.4
5524.5	17.5°	5473.7	5398.5	5134.4	4179.7	2788.9	1732.5	1349.6	1264.8	1216.4	1201.8
5795.9	20°	5708.7	5611.8	5226.5	3758.1	2083.8	1349.6	1209.1	1153.4	1109.8	1092.8
6067.3	22.5°	5943.7	5805.6	5226.5	3183.9	1562.9	1197.0	1109.8	1058.9	1008.0	986.2
6358.1	25°	6188.4	6004.3	5134.4	2544.2	1257.6	1097.6	1015.3	959.5	915.9	889.3
6634.3	27.5°	6425.9	6171.5	4923.6	1938.4	1119.4	1010.4	928.0	874.7	833.5	814.1
6934.7	30°	6651.2	6336.3	4628.0	1470.8	1029.8	925.6	848.1	802.0	760.8	741.5
7324.9	32.5°	6956.6	6544.6	4313.0	1206.7	952.3	845.6	775.4	731.8	695.4	680.9
7831.3	35°	7380.6	6852.4	4041.6	1184.9	886.8	780.2	710.0	668.8	632.4	620.3
8485.5	37.5°	7981.5	7349.1	3898.7	1330.2	833.5	722.1	656.6	613.0	579.1	569.4
9316.6	40°	8723.0	8022.7	3976.2	1475.6	797.2	671.2	608.2	564.6	535.5	523.4
10271.3	42.5°	9602.5	8853.8	4405.1	1587.1	773.0	627.6	562.1	513.7	494.3	489.5
11354.4	45°	10612.9	9767.3	5061.7	1705.8	734.2	586.4	516.1	479.8	465.2	462.8
12532.0	47.5°	11761.4	10770.4	5822.6	1853.6	695.4	547.6	479.8	455.5	443.4	438.6
13760.5	50°	12900.3	11780.8	6605.2	1936.0	663.9	511.3	450.7	431.3	421.6	419.2
15059.2	52.5°	14092.4	12820.3	7237.6	1858.5	637.3	482.2	426.5	411.9	402.2	399.8
16256.2	55°	15228.8	13661.1	7346.7	1577.4	584.0	453.1	399.8	392.5	380.4	380.4
17470.1	57.5°	16207.7	14082.7	6576.1	1158.2	530.6	409.5	373.1	365.9	356.2	353.8
18565.3	60°	17106.7	13961.6	5076.3	780.2	472.5	365.9	339.2	334.4	324.7	312.6
19517.6	62.5°	17613.1	13428.5	3472.2	508.8	414.3	319.8	300.5	298.0	276.2	252.0
20222.7	65°	17804.5	12333.3	2166.2	370.7	346.5	273.8	259.3	254.4	222.9	196.3
20622.5	67.5°	17637.3	10530.5	1092.8	293.2	273.8	227.8	213.2	213.2	191.4	167.2
20598.3	70°	16968.6	7894.3	460.4	235.0	210.8	174.5	174.5	184.2	162.3	135.7
19529.7	72.5°	15517.2	5311.3	244.7	179.3	157.5	123.6	143.0	150.2	128.4	101.8
15984.8	75°	12335.7	3239.6	169.6	133.3	99.3	87.2	109.0	113.9	87.2	67.8
10959.4	77.5°	8437.0	1860.9	113.9	84.8	63.0	50.9	75.1	70.3	46.0	31.5
4225.8	80°	3704.8	775.4	65.4	38.8	24.2	19.4	26.7	19.4	14.5	9.7
579.1	82.5°	433.7	181.7	24.2	14.5	9.7	4.8	2.4	0.0	0.0	0.0
176.9	85°	89.7	21.8	12.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0
31.5	87.5°	17.0	4.8	2.4	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>
4346.9
4223.4
4036.8
3477.1
2529.7
1635.6
1310.9
1194.6
1083.1
974.1
879.6
814.1
743.9
680.9
620.3
567.0
521.0
489.5
460.4
438.6
419.2
399.8
378.0
351.3
310.1
247.2
193.8
164.8
133.3
101.8
65.4
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