

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: P955721

Luminaire Tested: **GALN-SB8C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46072 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

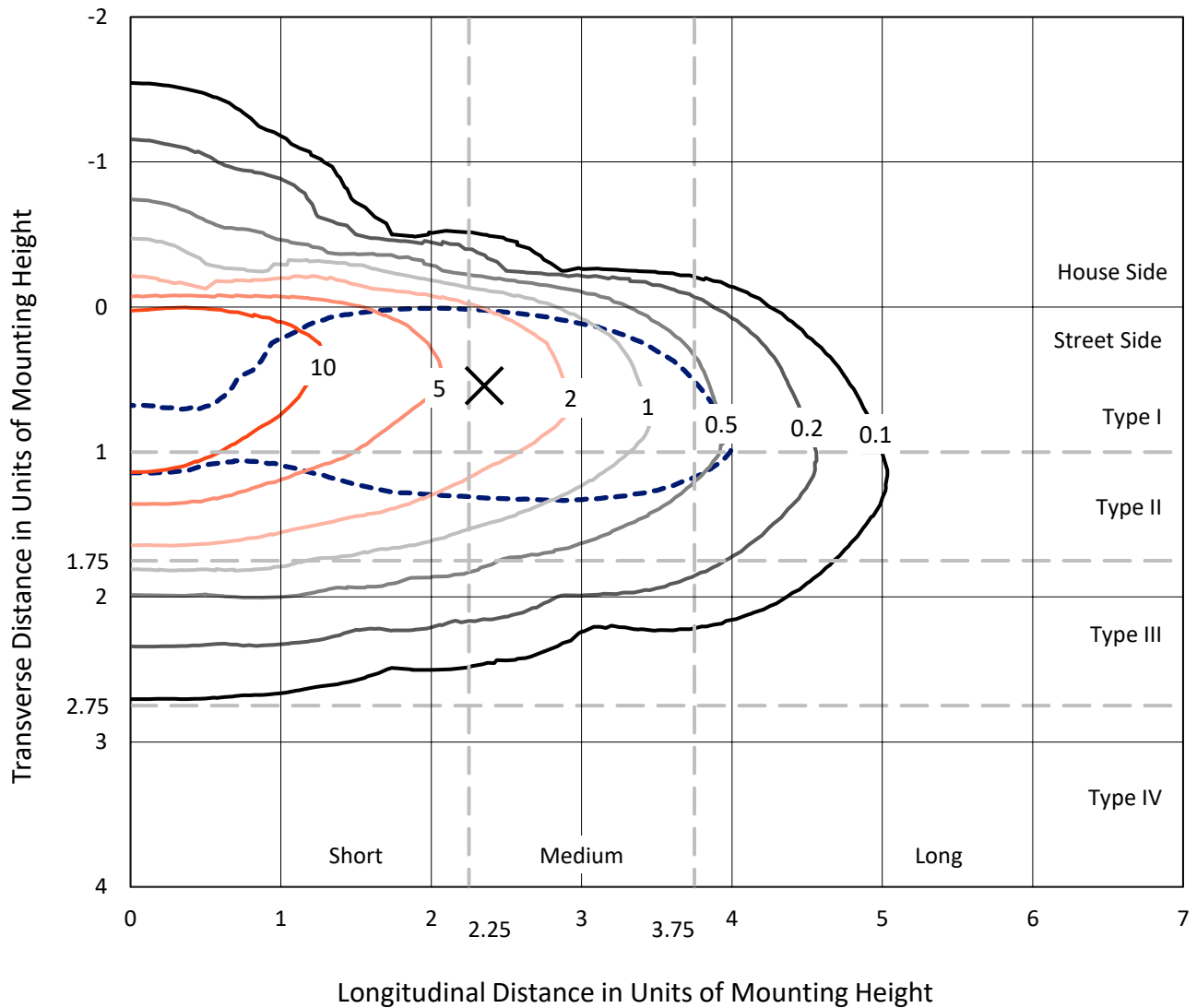
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

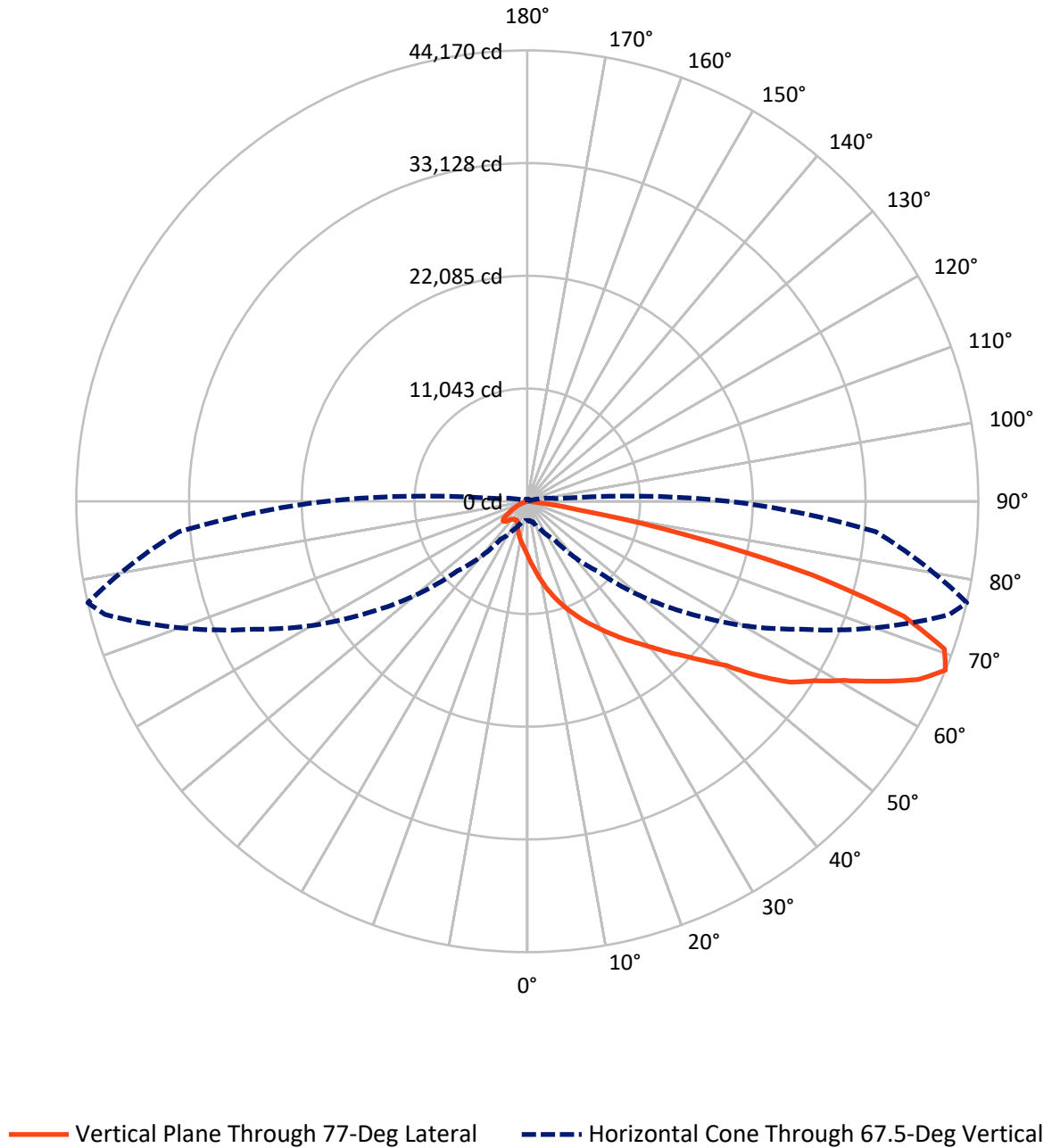
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.5	0.0	3389.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	42682.5	0.0	42682.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	46072.0	0.0	46072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.3	1.2
10°-20°	1898.9	4.1
20°-30°	3664.4	8.0
30°-40°	6361.6	13.8
40°-50°	9236.7	20.0
50°-60°	10607.2	23.0
60°-70°	9209.0	20.0
70°-80°	4337.5	9.4
80°-90°	214.5	0.5
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°	46072.0	100.0
0°-180°	46072.0	100.0

Coefficient of Utilization



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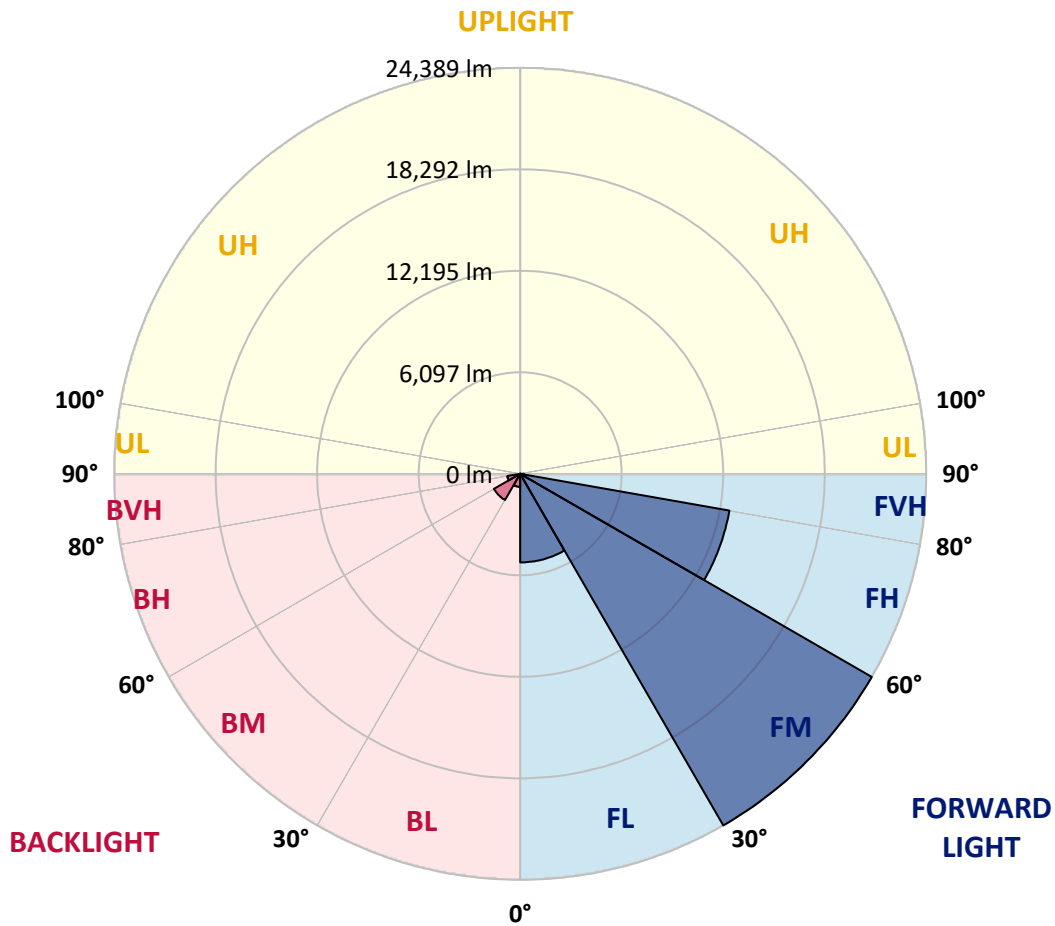
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5320.8	11.5			
FM (30°-60°)	24389.3	52.9			
FH (60°-80°)	12761.8	27.7			G5
FVH (80°-90°)	210.6	0.5			G2/225
BL (0°-30°)	784.7	1.7	B2/1000		
BM (30°-60°)	1816.2	3.9	B2/2500		
BH (60°-80°)	784.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8
2.5°	7355.5	7401.3	7335.5	7209.6	7020.8	6897.7	6597.3	6314.1	5999.4	5899.3
5°	8966.2	9006.3	8931.9	8794.6	8542.8	8302.5	7907.7	7315.4	6700.3	6502.9
7.5°	10159.2	10182.1	10153.5	10027.6	9787.3	9515.5	9074.9	8374.0	7461.4	7243.9
10°	11017.5	11091.9	11083.3	11034.7	10874.5	10654.2	10185.0	9386.8	8313.9	8033.5
12.5°	11586.8	11669.8	11718.4	11827.2	11818.6	11678.4	11266.4	10422.4	9163.6	8834.6
15°	11752.8	11841.5	12027.4	12279.2	12502.3	12573.9	12284.9	11438.1	10099.1	9678.6
17.5°	11658.4	11795.7	12018.8	12416.5	12905.7	13229.0	13197.5	12419.4	10948.8	10468.2
20°	11867.2	11998.8	12173.3	12508.1	13077.4	13663.9	13898.5	13357.8	11792.8	11289.3
22.5°	13023.0	13000.1	13017.3	13071.7	13412.1	13992.9	14476.4	14210.3	12628.2	12113.3
25°	14854.0	14751.0	14576.5	14281.8	14196.0	14476.4	14979.9	14965.6	13509.4	12957.2
27.5°	16954.0	16936.8	16527.7	15818.2	15417.6	15308.9	15549.2	15700.9	14382.0	13792.6
30°	18965.2	19011.0	18458.8	17669.2	16933.9	16507.7	16290.2	16398.9	15268.9	14693.8
32.5°	20716.1	20764.8	20164.0	19239.9	18330.1	17815.1	17357.4	17088.4	16235.9	15609.3
35°	22195.2	22243.9	21554.4	20533.0	19563.2	19096.8	18579.0	17843.7	17208.6	16625.0
37.5°	23517.0	23502.7	22578.6	21548.7	20596.0	20226.9	19955.1	18773.5	18209.9	17646.3
40°	24298.0	24358.1	23568.5	22432.7	21508.6	21239.7	21222.5	19926.5	19365.8	18819.3
42.5°	24526.9	24632.8	24060.6	23127.9	22289.6	21997.8	22447.0	21173.9	20710.4	20178.3
45°	24114.9	24217.9	23957.6	23311.0	22821.8	22633.0	23499.8	22467.0	22146.6	21620.2
47.5°	22913.3	23042.1	23105.0	22967.7	22962.0	23153.6	24443.9	23828.8	23851.7	23313.9
50°	20587.4	20804.8	21382.7	21869.1	22621.5	23565.6	25362.3	25305.1	25774.3	25310.8
52.5°	16358.9	16667.9	18659.1	19989.4	21680.3	23488.4	26372.2	27673.9	29147.3	28469.3
55°	13146.1	13146.1	14765.3	17254.4	19843.5	22979.1	26812.8	29213.1	31444.7	31284.5
57.5°	10717.1	10845.9	11878.7	14078.7	17185.7	21766.1	27084.6	30180.1	33295.7	33178.4
60°	6614.5	6892.0	8843.2	11014.6	14161.7	19606.1	26912.9	31158.6	35541.5	35636.0
62.5°	3725.0	3827.9	4697.7	7924.8	11011.8	16702.2	25599.8	31705.0	38413.9	38814.5
65°	2572.0	2623.5	2958.2	4932.3	7633.0	13297.7	23033.5	31364.6	41292.1	42101.7
67.5°	1868.2	1893.9	2102.8	3012.6	4528.9	9641.4	19011.0	29648.0	42816.9	44170.2
70°	1436.2	1453.4	1605.0	1979.8	2675.0	5950.8	13806.9	26234.9	41712.6	43329.0
72.5°	1167.3	1184.4	1301.7	1464.8	1773.8	3519.0	8368.3	21305.5	36837.6	38582.7
75°	984.2	1007.1	1112.9	1218.8	1390.4	2260.1	3925.2	14836.9	27702.6	28846.9
77.5°	546.4	503.5	904.1	1009.9	1173.0	1430.5	1836.7	8731.6	15514.9	15832.5
80°	340.5	351.9	718.1	812.5	901.2	721.0	841.1	3361.6	5378.6	5109.7
82.5°	20.0	45.8	552.2	586.5	618.0	309.0	317.6	1141.5	1296.0	1190.2
85°	0.0	0.0	251.8	203.1	214.6	88.7	91.6	266.1	174.5	188.8
87.5°	0.0	0.0	0.0	5.7	0.0	8.6	17.2	22.9	8.6	11.4
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°
5312.8	0°	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8
5584.6	2.5°	5384.3	5184.0	4777.8	4380.1	4056.8	3756.4	3541.9	3338.7	3235.7	3230.0
5945.0	5°	5547.4	5126.8	4314.3	3596.2	3018.3	2554.8	2254.4	2039.9	1931.1	1893.9
6388.5	7.5°	5776.3	5144.0	3908.1	2909.6	2228.7	1831.0	1659.3	1590.7	1567.8	1542.1
6889.2	10°	6065.2	5184.0	3544.7	2343.1	1756.6	1556.4	1487.7	1459.1	1441.9	1424.8
7452.8	12.5°	6388.5	5221.2	3184.2	1945.4	1544.9	1441.9	1393.3	1358.9	1336.1	1316.0
8030.7	15°	6703.2	5244.1	2809.5	1667.9	1436.2	1353.2	1301.7	1264.5	1233.1	1210.2
8597.1	17.5°	7015.0	5275.6	2457.6	1502.0	1347.5	1264.5	1213.0	1167.3	1141.5	1115.8
9192.2	20°	7361.2	5269.9	2125.7	1384.7	1258.8	1175.8	1121.5	1078.6	1052.8	1024.2
9821.6	22.5°	7681.6	5241.3	1833.9	1284.6	1167.3	1087.2	1027.1	984.2	958.4	935.5
10465.3	25°	8050.7	5218.4	1590.7	1193.0	1081.4	1001.3	935.5	895.5	866.9	846.8
11111.9	27.5°	8405.5	5184.0	1413.3	1110.0	998.5	921.2	858.3	812.5	786.8	772.5
11778.5	30°	8754.5	5175.5	1347.5	1029.9	924.1	846.8	783.9	741.0	721.0	715.2
12510.9	32.5°	9175.1	5198.3	1376.1	1001.3	855.4	778.2	718.1	686.6	666.6	666.6
13326.3	35°	9624.2	5192.6	1419.0	1027.1	809.6	709.5	663.7	643.7	623.7	623.7
14230.4	37.5°	10187.8	5201.2	1453.4	1070.0	792.5	652.3	626.5	600.8	589.4	589.4
15220.2	40°	11029.0	5484.4	1436.2	1107.2	786.8	612.2	560.7	552.2	543.6	543.6
16338.9	42.5°	12058.9	6099.5	1459.1	1110.0	783.9	583.6	515.0	532.1	512.1	509.2
17600.5	45°	13186.1	6771.9	1605.0	1050.0	781.0	569.3	492.1	512.1	480.6	480.6
19062.5	47.5°	14304.7	7438.5	1753.8	964.1	772.5	566.5	472.1	460.6	452.0	454.9
20967.9	50°	15846.8	7982.0	1811.0	846.8	752.4	560.7	434.9	437.7	432.0	437.7
23654.3	52.5°	17526.2	8096.5	1742.3	715.2	695.2	543.6	409.1	420.6	417.7	423.4
25545.4	55°	18573.3	7973.5	1439.1	595.1	606.5	474.9	383.4	406.3	406.3	406.3
27393.6	57.5°	19654.7	7449.9	1021.4	483.5	503.5	389.1	360.5	391.9	389.1	386.2
29619.4	60°	20432.9	6603.1	672.3	397.7	400.5	320.4	334.7	369.1	366.2	351.9
31913.9	62.5°	21013.7	5667.5	432.0	337.6	306.1	289.0	306.1	334.7	323.3	291.8
33859.3	65°	20947.9	4371.5	331.9	289.0	251.8	251.8	266.1	291.8	257.5	206.0
34231.2	67.5°	19726.2	2958.2	274.7	243.2	211.7	208.8	220.3	243.2	220.3	174.5
32325.8	70°	17543.3	1934.0	220.3	188.8	168.8	154.5	177.4	208.8	186.0	140.2
27519.5	72.5°	14238.9	1178.7	165.9	137.3	123.0	100.1	140.2	171.7	148.8	103.0
19136.9	75°	9212.2	600.8	114.4	88.7	65.8	60.1	103.0	128.7	103.0	62.9
8491.3	77.5°	3524.7	251.8	62.9	40.1	34.3	28.6	57.2	77.2	42.9	14.3
1645.0	80°	678.0	105.9	31.5	20.0	17.2	11.4	8.6	5.7	0.0	0.0
291.8	82.5°	117.3	34.3	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
57.2	85°	40.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	87.5°	14.3	0.0	0.0	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>
5312.8
3224.3
1888.2
1536.3
1419.0
1310.3
1207.3
1112.9
1021.4
932.7
844.0
772.5
712.4
666.6
623.7
589.4
543.6
506.4
480.6
454.9
437.7
423.4
406.3
386.2
351.9
286.1
200.3
168.8
134.5
97.3
54.4
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