

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: P942538

Luminaire Tested: **GALN-SB6C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30897 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

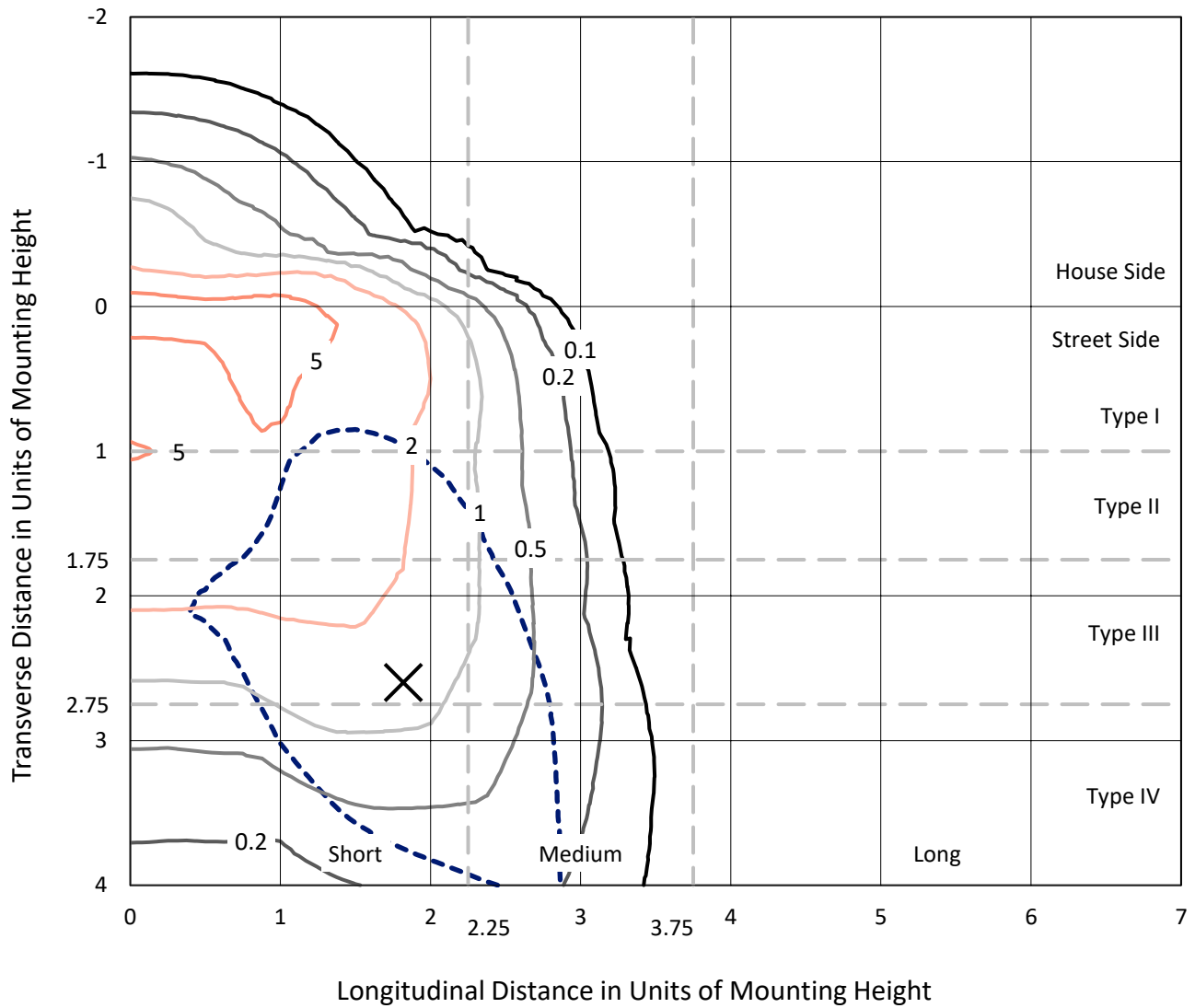
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

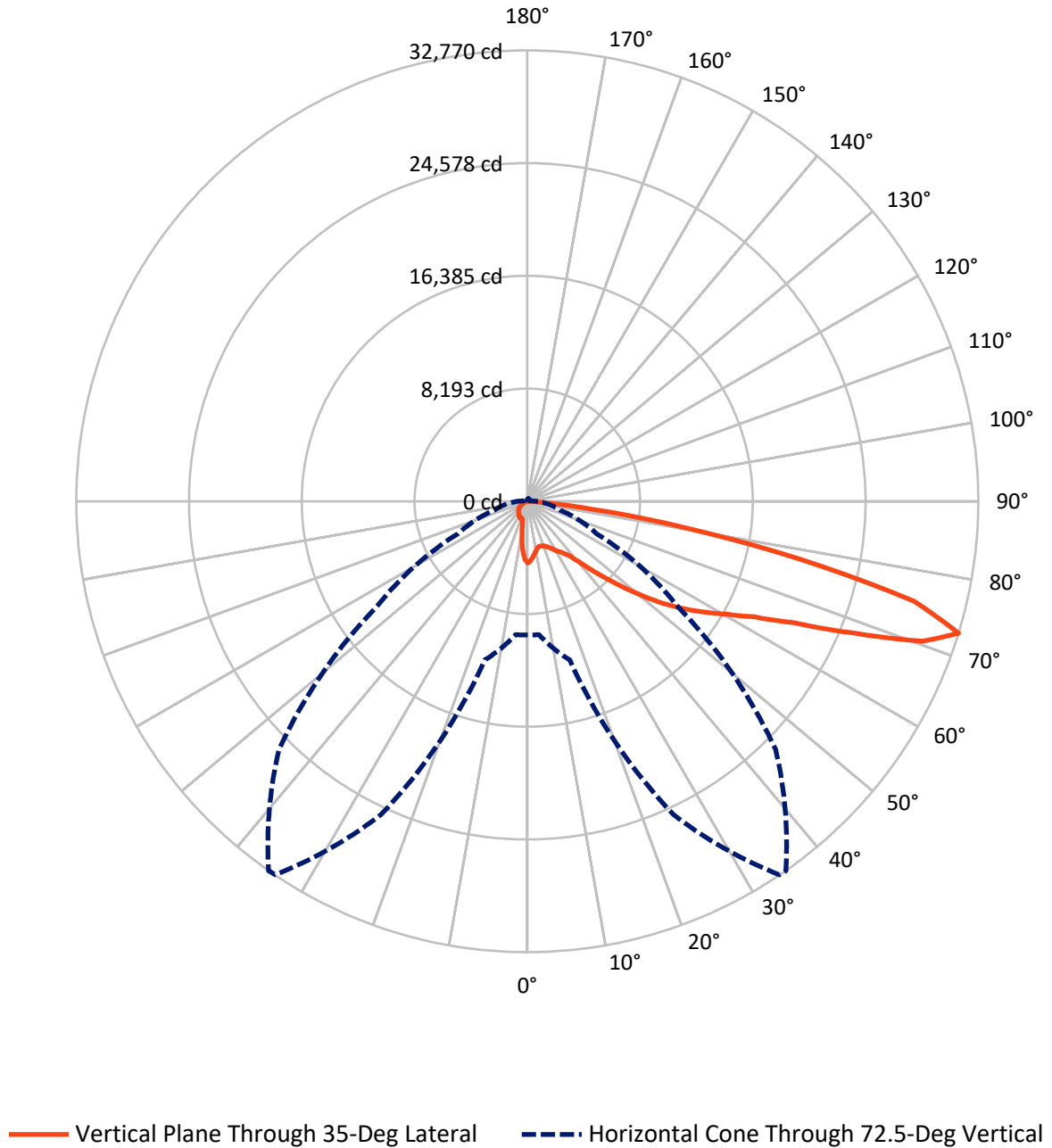
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.3	0.0	3477.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27419.7	0.0	27419.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	30897.0	0.0	30897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	1.2
10°-20°	860.8	2.8
20°-30°	1398.4	4.5
30°-40°	2333.2	7.6
40°-50°	4414.5	14.3
50°-60°	7014.6	22.7
60°-70°	8677.6	28.1
70°-80°	5394.0	17.5
80°-90°	435.9	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°	30897.0	100.0
0°-180°	30897.0	100.0

Coefficient of Utilization



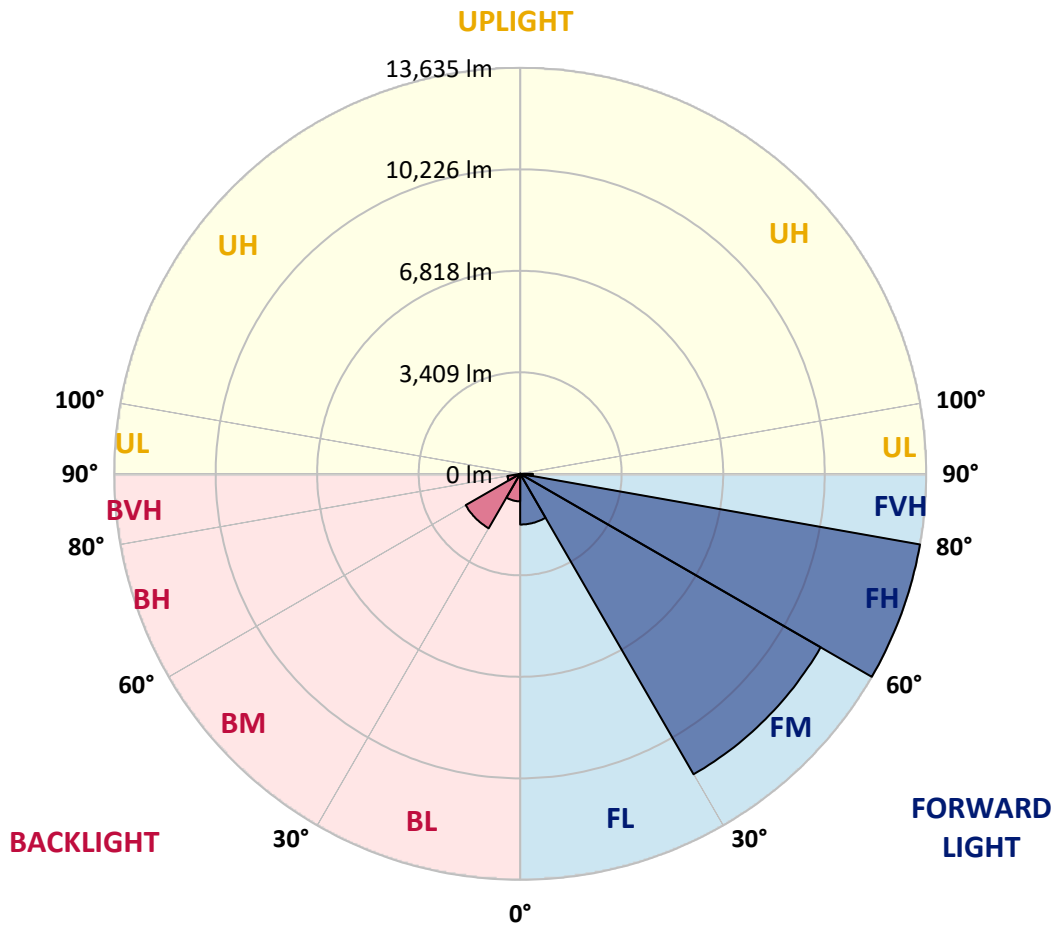
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.2	5.5			
FM (30°-60°)	11651.3	37.7			
FH (60°-80°)	13635.2	44.1			G5
FVH (80°-90°)	430.0	1.4			G3/500
BL (0°-30°)	924.0	3.0	B2/1000		
BM (30°-60°)	2111.0	6.8	B2/2500		
BH (60°-80°)	436.4	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0
2.5°	4278.8	4315.0	4321.8	4333.1	4333.1	4346.7	4369.3	4401.0	4453.1	4480.3
5°	3943.7	3970.9	4004.9	4032.0	4084.1	4090.9	4179.2	4265.2	4385.2	4475.7
7.5°	3606.4	3638.1	3683.4	3749.0	3816.9	3837.3	3970.9	4115.8	4306.0	4475.7
10°	3368.7	3371.0	3411.7	3477.4	3586.0	3610.9	3773.9	3980.0	4217.7	4448.6
12.5°	3235.1	3251.0	3269.1	3318.9	3423.0	3438.9	3613.2	3855.4	4129.4	4432.7
15°	3235.1	3246.4	3257.8	3282.7	3366.4	3380.0	3534.0	3776.2	4084.1	4439.5
17.5°	3269.1	3287.2	3278.1	3307.6	3395.9	3404.9	3540.8	3753.6	4081.8	4482.5
20°	3350.6	3364.2	3346.1	3364.2	3452.5	3470.6	3610.9	3796.6	4120.3	4557.2
22.5°	3479.6	3486.4	3443.4	3457.0	3547.5	3570.2	3733.2	3918.8	4213.1	4677.2
25°	3642.6	3656.2	3590.6	3606.4	3692.4	3719.6	3907.5	4102.2	4360.3	4842.5
27.5°	3830.5	3837.3	3780.7	3778.5	3889.4	3927.9	4118.0	4328.6	4557.2	5050.8
30°	4045.6	4066.0	4011.6	4002.6	4143.0	4174.6	4362.6	4607.1	4847.0	5363.2
32.5°	4215.4	4231.2	4199.6	4222.2	4364.8	4389.7	4659.1	5001.0	5302.1	5806.9
35°	4459.9	4469.0	4396.5	4437.3	4600.3	4663.7	5064.4	5553.4	5874.8	6363.8
37.5°	5345.1	5345.1	5037.2	4835.7	4991.9	5048.5	5619.0	6248.4	6581.2	7110.9
40°	6569.9	6549.5	6099.0	5686.9	5666.6	5777.5	6409.1	7124.5	7493.5	8007.4
42.5°	7876.1	7844.4	7230.9	6823.4	6755.5	6794.0	7321.5	8204.4	8580.2	9100.9
45°	9035.3	9026.2	8464.8	7916.9	7794.6	7916.9	8460.2	9467.7	9737.1	10284.9
47.5°	10006.5	10006.5	9596.7	9239.0	9175.6	9248.1	10001.9	10869.0	10844.1	11545.9
50°	11124.8	11115.8	10726.4	10572.5	10638.1	10740.0	11776.9	12345.1	11989.7	12784.3
52.5°	11908.2	11962.5	11828.9	11804.0	12139.1	12315.7	13578.9	13789.5	13015.2	13959.3
55°	12528.5	12591.9	12745.8	12920.1	13565.3	13796.3	15324.4	15159.1	13873.2	14978.0
57.5°	13406.9	13316.3	13554.0	13898.1	14941.8	15220.3	17015.5	16451.8	14563.7	15804.3
60°	14473.2	14486.8	14527.5	14962.2	16316.0	16673.7	18681.8	17674.3	15007.5	16311.5
62.5°	15754.5	15774.9	15858.7	16526.5	18161.1	18498.4	20456.7	18675.0	15211.2	16168.8
65°	15666.2	15752.3	16687.3	18971.6	20966.1	21298.9	22528.2	19376.8	14903.3	14864.8
67.5°	14271.7	14412.0	15976.4	21892.0	25195.0	25566.3	25032.0	19514.9	13574.4	11559.5
70°	12442.4	12492.2	14373.6	24518.1	30091.9	30467.7	27273.3	17995.8	10300.8	6447.6
72.5°	9716.7	9728.0	11935.3	25127.1	32749.7	32770.1	25514.2	13359.3	5539.8	2476.7
75°	6941.1	6873.2	7993.9	20377.4	28812.8	29043.7	19127.8	6266.5	2116.8	1170.4
77.5°	3721.9	3796.6	4523.3	12084.7	19904.3	20298.2	10436.6	1806.6	1077.6	796.9
80°	1150.1	1213.5	1854.1	5533.0	11274.3	11512.0	3869.0	803.7	751.6	568.2
82.5°	362.2	375.8	864.8	2325.0	4679.5	4788.2	1120.6	455.0	513.9	375.8
85°	104.1	106.4	384.9	867.1	1156.9	1179.5	314.7	176.6	294.3	233.2
87.5°	11.3	36.2	144.9	144.9	101.9	99.6	34.0	38.5	83.8	29.4
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°
4478.0	0°	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0
4498.4	2.5°	4487.1	4489.3	4459.9	4410.1	4355.8	4310.5	4253.9	4208.6	4176.9	4167.9
4539.1	5°	4518.8	4502.9	4419.1	4267.5	4086.4	3930.1	3755.8	3617.7	3527.2	3488.7
4582.2	7.5°	4566.3	4521.0	4337.6	4038.8	3692.4	3384.5	3072.1	2829.9	2675.9	2599.0
4622.9	10°	4607.1	4516.5	4201.8	3708.3	3178.5	2712.2	2291.1	1999.0	1836.0	1759.1
4670.4	12.5°	4645.5	4514.2	4025.2	3316.6	2599.0	2028.5	1636.8	1491.9	1446.6	1430.8
4747.4	15°	4718.0	4521.0	3803.4	2868.4	2021.7	1532.7	1390.0	1387.8	1396.8	1392.3
4865.1	17.5°	4817.6	4527.8	3552.1	2393.0	1559.8	1351.6	1344.8	1365.1	1378.7	1371.9
5012.3	20°	4946.6	4555.0	3284.9	1922.1	1340.2	1306.3	1322.1	1340.2	1351.6	1340.2
5209.3	22.5°	5127.8	4602.5	2992.9	1544.0	1270.1	1279.1	1292.7	1313.1	1324.4	1308.5
5460.5	25°	5349.6	4677.2	2705.4	1342.5	1236.1	1247.4	1267.8	1290.4	1304.0	1288.2
5777.5	27.5°	5637.1	4797.2	2440.5	1297.2	1202.1	1208.9	1238.4	1272.3	1290.4	1270.1
6228.0	30°	6053.7	4994.2	2211.8	1317.6	1181.8	1165.9	1206.7	1254.2	1274.6	1256.5
6841.5	32.5°	6606.1	5272.6	2071.5	1349.3	1172.7	1116.1	1154.6	1215.7	1249.7	1238.4
7643.0	35°	7330.5	5696.0	2017.1	1385.5	1165.9	1064.0	1091.2	1156.9	1215.7	1227.0
8652.7	37.5°	8208.9	6284.6	2033.0	1401.4	1145.5	1021.0	1034.6	1091.2	1168.2	1204.4
9789.1	40°	9207.3	6970.6	2123.5	1385.5	1122.9	984.8	987.1	1030.1	1098.0	1152.3
11011.7	42.5°	10237.4	7772.0	2291.1	1326.7	1102.5	953.1	946.3	975.7	1021.0	1059.5
12231.9	45°	11217.7	8596.1	2456.3	1245.1	1077.6	921.4	905.6	916.9	925.9	941.8
13420.5	47.5°	12073.4	9175.6	2408.8	1170.4	1043.7	885.2	858.0	853.5	826.3	824.1
14482.2	50°	12664.3	9302.4	2139.4	1095.7	993.9	844.4	801.4	774.3	726.7	704.1
15276.9	52.5°	12852.2	8802.1	1747.7	1021.0	912.4	790.1	729.0	686.0	627.1	606.7
15734.2	55°	12603.2	7821.8	1396.8	930.5	799.2	717.7	649.7	593.1	545.6	520.7
15784.0	57.5°	11994.2	6574.4	1104.8	824.1	679.2	636.2	568.2	511.6	470.9	446.0
15231.6	60°	10984.5	5220.6	873.9	697.3	579.6	547.9	477.7	441.5	405.2	375.8
13805.3	62.5°	9451.8	3726.4	686.0	552.4	484.5	448.3	407.5	380.3	337.3	296.6
11240.3	65°	7375.8	2279.8	529.8	405.2	389.4	371.3	346.4	321.5	269.4	228.7
7332.8	67.5°	4652.3	1079.9	378.1	305.6	307.9	298.8	287.5	267.1	228.7	192.4
3284.9	70°	2048.8	523.0	249.0	233.2	228.7	228.7	237.7	230.9	194.7	160.7
1141.0	72.5°	697.3	280.7	185.6	176.6	165.3	163.0	199.2	192.4	156.2	124.5
568.2	75°	364.5	187.9	135.8	126.8	99.6	120.0	158.5	149.4	110.9	81.5
375.8	77.5°	237.7	133.6	92.8	81.5	56.6	79.2	117.7	104.1	65.7	40.8
246.8	80°	149.4	88.3	54.3	38.5	27.2	43.0	63.4	45.3	24.9	9.1
144.9	82.5°	79.2	45.3	20.4	13.6	11.3	13.6	15.8	11.3	4.5	0.0
74.7	85°	31.7	15.8	6.8	4.5	2.3	0.0	4.5	2.3	0.0	0.0
13.6	87.5°	11.3	2.3	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>
4478.0
4183.7
3502.3
2610.3
1761.3
1426.3
1390.0
1369.7
1338.0
1306.3
1285.9
1270.1
1254.2
1238.4
1227.0
1213.5
1170.4
1075.4
950.8
821.8
706.3
604.5
520.7
441.5
369.0
289.8
221.9
187.9
153.9
117.7
74.7
36.2
6.8
0.0
0.0
0.0
0.0

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