

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: P943728

Luminaire Tested: **GALN-SB8B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943728
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-SB8B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA 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: 30978 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

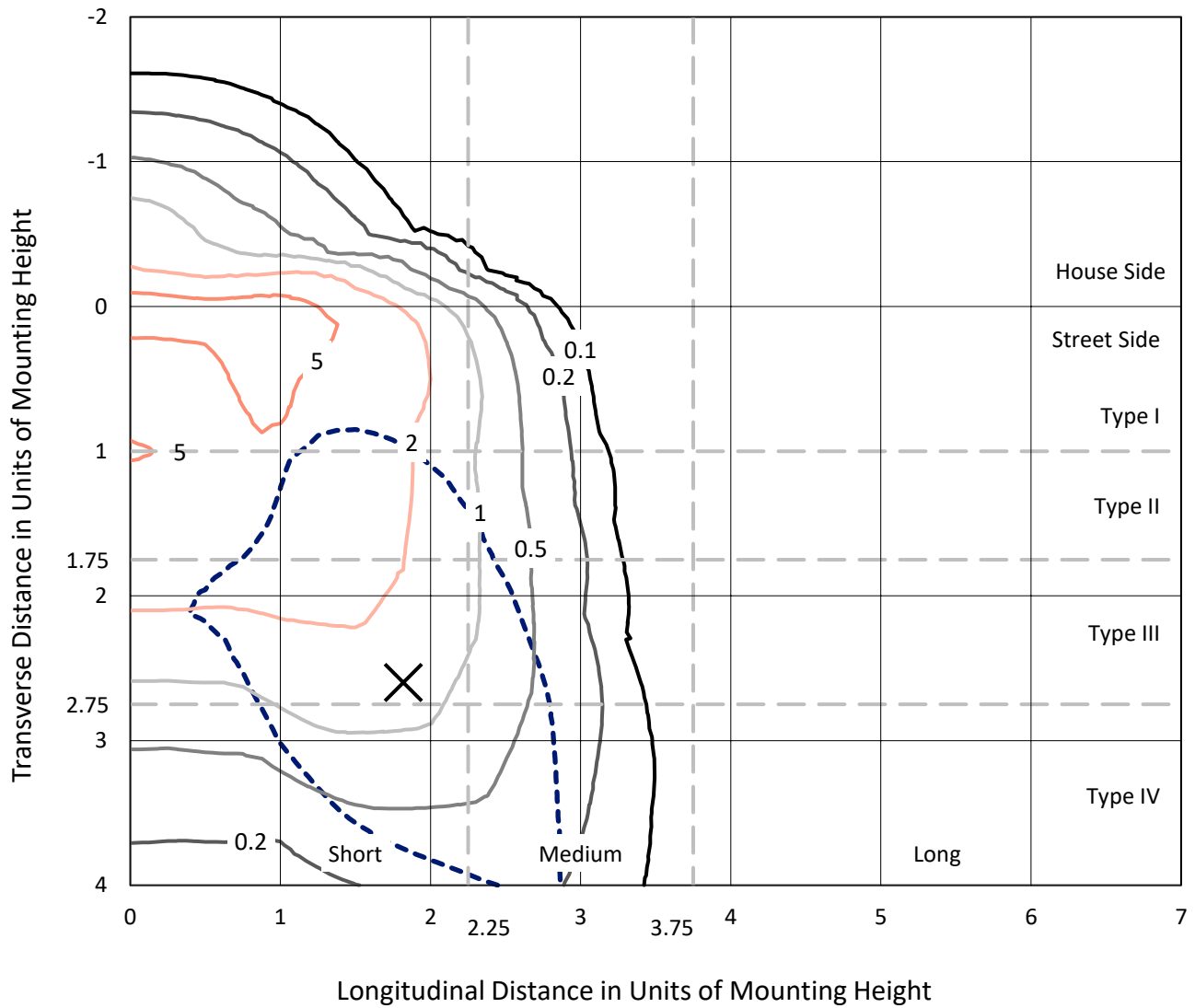
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

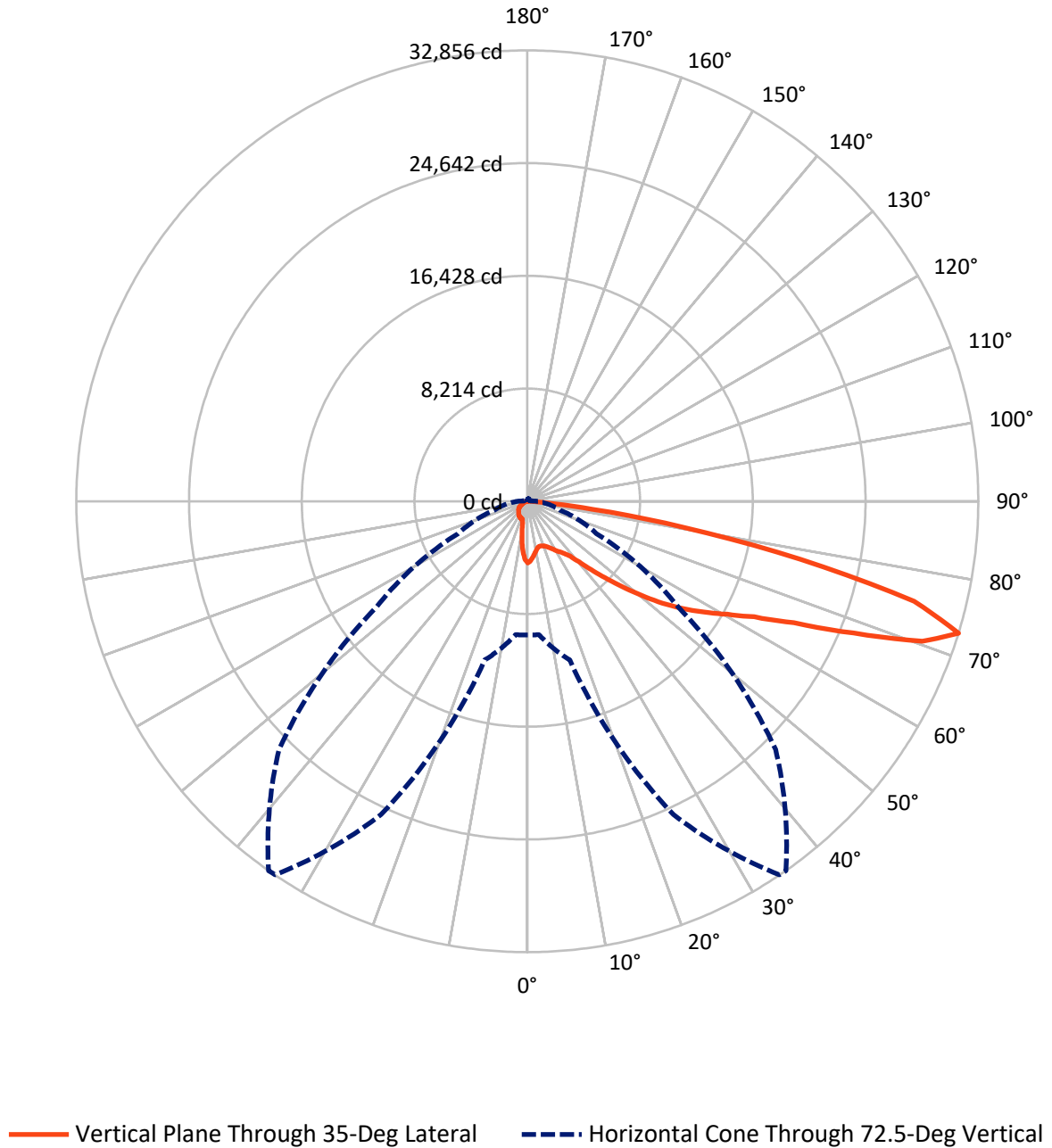
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3486.4	0.0	3486.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27491.6	0.0	27491.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	30978.0	0.0	30978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	1.2
10°-20°	863.1	2.8
20°-30°	1402.1	4.5
30°-40°	2339.3	7.6
40°-50°	4426.1	14.3
50°-60°	7033.0	22.7
60°-70°	8700.3	28.1
70°-80°	5408.2	17.5
80°-90°	437.1	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°	30978.0	100.0
0°-180°	30978.0	100.0



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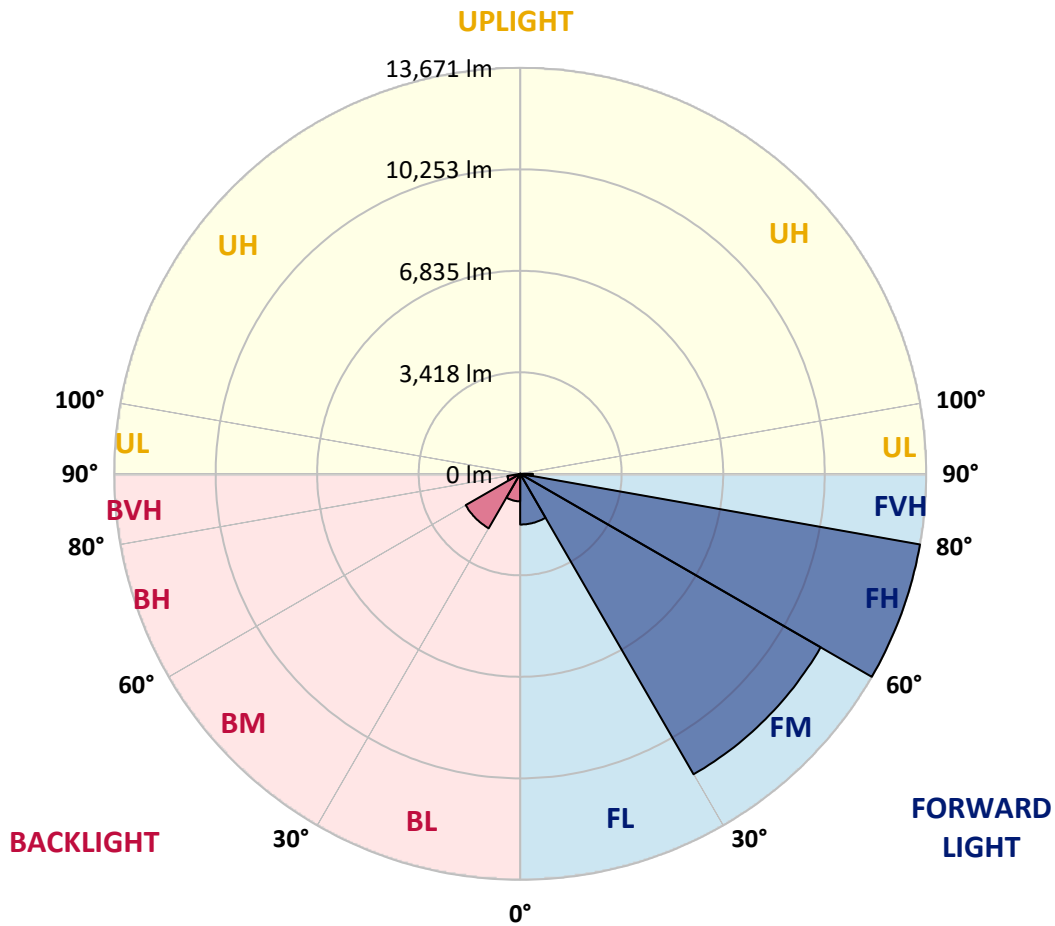
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.7	5.5			
FM (30°-60°)	11681.8	37.7			
FH (60°-80°)	13671.0	44.1			G5
FVH (80°-90°)	431.1	1.4			G3/500
BL (0°-30°)	926.4	3.0	B2/1000		
BM (30°-60°)	2116.6	6.8	B2/2500		
BH (60°-80°)	437.5	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°	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8
2.5°	4290.0	4326.3	4333.1	4344.5	4344.5	4358.1	4380.8	4412.6	4464.8	4492.0
5°	3954.1	3981.3	4015.4	4042.6	4094.8	4101.6	4190.1	4276.4	4396.7	4487.5
7.5°	3615.9	3647.6	3693.0	3758.9	3827.0	3847.4	3981.3	4126.6	4317.2	4487.5
10°	3377.5	3379.8	3420.7	3486.5	3595.4	3620.4	3783.8	3990.4	4228.7	4460.2
12.5°	3243.6	3259.5	3277.7	3327.6	3432.0	3447.9	3622.7	3865.5	4140.2	4444.4
15°	3243.6	3255.0	3266.3	3291.3	3375.3	3388.9	3543.2	3786.1	4094.8	4451.2
17.5°	3277.7	3295.8	3286.7	3316.2	3404.8	3413.8	3550.0	3763.4	4092.5	4494.3
20°	3359.4	3373.0	3354.8	3373.0	3461.5	3479.7	3620.4	3806.5	4131.1	4569.2
22.5°	3488.7	3495.6	3452.4	3466.1	3556.8	3579.5	3743.0	3929.1	4224.2	4689.5
25°	3652.2	3665.8	3600.0	3615.9	3702.1	3729.4	3917.8	4113.0	4371.7	4855.2
27.5°	3840.6	3847.4	3790.6	3788.4	3899.6	3938.2	4128.8	4339.9	4569.2	5064.0
30°	4056.2	4076.6	4022.2	4013.1	4153.8	4185.6	4374.0	4619.1	4859.7	5377.3
32.5°	4226.4	4242.3	4210.6	4233.3	4376.3	4401.2	4671.3	5014.1	5316.0	5822.1
35°	4471.6	4480.7	4408.0	4448.9	4612.3	4675.9	5077.6	5567.9	5890.2	6380.5
37.5°	5359.1	5359.1	5050.4	4848.4	5005.0	5061.8	5633.8	6264.8	6598.4	7129.6
40°	6587.1	6566.7	6115.0	5701.8	5681.4	5792.6	6425.9	7143.2	7513.2	8028.4
42.5°	7896.8	7865.0	7249.9	6841.3	6773.2	6811.8	7340.7	8225.9	8602.7	9124.8
45°	9058.9	9049.9	8486.9	7937.6	7815.1	7937.6	8482.4	9492.5	9762.6	10311.9
47.5°	10032.7	10032.7	9621.9	9263.2	9199.7	9272.3	10028.2	10897.5	10872.6	11576.2
50°	11154.0	11144.9	10754.5	10600.2	10666.0	10768.1	11807.7	12377.5	12021.1	12817.8
52.5°	11939.4	11993.9	11859.9	11835.0	12170.9	12347.9	13614.5	13825.6	13049.3	13995.9
55°	12561.3	12624.9	12779.2	12954.0	13600.9	13832.4	15364.6	15198.9	13909.6	15017.3
57.5°	13442.0	13351.2	13589.6	13934.6	14981.0	15260.2	17060.1	16495.0	14601.9	15845.8
60°	14511.1	14524.7	14565.6	15001.4	16358.8	16717.4	18730.8	17720.7	15046.8	16354.2
62.5°	15795.8	15816.3	15900.3	16569.9	18208.7	18546.9	20510.3	18723.9	15251.1	16211.2
65°	15707.3	15793.6	16731.0	19021.3	21021.0	21354.7	22587.2	19427.6	14942.4	14903.8
67.5°	14309.1	14449.8	16018.3	21949.4	25261.1	25633.3	25097.7	19566.1	13610.0	11589.8
70°	12475.1	12525.0	14411.2	24582.4	30170.8	30547.6	27344.8	18043.0	10327.8	6464.5
72.5°	9742.2	9753.5	11966.6	25193.0	32835.6	32856.0	25581.1	13394.3	5554.3	2483.2
75°	6959.3	6891.2	8014.8	20430.9	28888.3	29119.8	19177.9	6282.9	2122.3	1173.5
77.5°	3731.6	3806.5	4535.1	12116.4	19956.5	20351.4	10464.0	1811.3	1080.4	799.0
80°	1153.1	1216.6	1859.0	5547.5	11303.8	11542.2	3879.2	805.8	753.6	569.7
82.5°	363.2	376.8	867.1	2331.1	4691.8	4800.7	1123.6	456.2	515.3	376.8
85°	104.4	106.7	385.9	869.4	1159.9	1182.6	315.5	177.0	295.1	233.8
87.5°	11.3	36.3	145.3	145.3	102.1	99.9	34.0	38.6	84.0	29.5
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°
4489.8	0°	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8	4489.8
4510.2	2.5°	4498.8	4501.1	4471.6	4421.7	4367.2	4321.8	4265.0	4219.6	4187.9	4178.8
4551.0	5°	4530.6	4514.7	4430.7	4278.7	4097.1	3940.4	3765.7	3627.2	3536.4	3497.8
4594.2	7.5°	4578.3	4532.9	4349.0	4049.4	3702.1	3393.4	3080.2	2837.3	2683.0	2605.8
4635.0	10°	4619.1	4528.3	4212.8	3718.0	3186.9	2719.3	2297.1	2004.3	1840.8	1763.7
4682.7	12.5°	4657.7	4526.1	4035.8	3325.3	2605.8	2033.8	1641.1	1495.8	1450.4	1434.5
4759.9	15°	4730.4	4532.9	3813.3	2875.9	2027.0	1536.7	1393.7	1391.4	1400.5	1396.0
4877.9	17.5°	4830.2	4539.7	3561.4	2399.2	1563.9	1355.1	1348.3	1368.7	1382.3	1375.5
5025.4	20°	4959.6	4566.9	3293.5	1927.1	1343.7	1309.7	1325.6	1343.7	1355.1	1343.7
5222.9	22.5°	5141.2	4614.6	3000.7	1548.0	1273.4	1282.5	1296.1	1316.5	1327.9	1312.0
5474.9	25°	5363.6	4689.5	2712.5	1346.0	1239.3	1250.7	1271.1	1293.8	1307.4	1291.5
5792.6	27.5°	5651.9	4809.8	2446.9	1300.6	1205.3	1212.1	1241.6	1275.7	1293.8	1273.4
6244.3	30°	6069.6	5007.3	2217.6	1321.0	1184.9	1169.0	1209.8	1257.5	1277.9	1259.8
6859.5	32.5°	6623.4	5286.5	2076.9	1352.8	1175.8	1119.0	1157.6	1218.9	1253.0	1241.6
7663.0	35°	7349.8	5710.9	2022.4	1389.1	1169.0	1066.8	1094.1	1159.9	1218.9	1230.3
8675.3	37.5°	8230.5	6301.1	2038.3	1405.0	1148.5	1023.7	1037.3	1094.1	1171.2	1207.6
9814.8	40°	9231.5	6988.8	2129.1	1389.1	1125.8	987.4	989.7	1032.8	1100.9	1155.4
11040.5	42.5°	10264.2	7792.4	2297.1	1330.1	1105.4	955.6	948.8	978.3	1023.7	1062.3
12264.0	45°	11247.1	8618.6	2462.8	1248.4	1080.4	923.8	907.9	919.3	928.4	944.3
13455.6	47.5°	12105.1	9199.7	2415.1	1173.5	1046.4	887.5	860.3	855.7	828.5	826.2
14520.2	50°	12697.5	9326.8	2145.0	1098.6	996.5	846.7	803.5	776.3	728.6	705.9
15316.9	52.5°	12885.9	8825.2	1752.3	1023.7	914.7	792.2	730.9	687.8	628.7	608.3
15775.4	55°	12636.2	7842.3	1400.5	932.9	801.3	719.5	651.4	594.7	547.0	522.1
15825.4	57.5°	12025.6	6591.6	1107.7	826.2	681.0	637.8	569.7	513.0	472.1	447.2
15271.5	60°	11013.3	5234.3	876.2	699.1	581.1	549.3	478.9	442.6	406.3	376.8
13841.5	62.5°	9476.6	3736.2	687.8	553.8	485.7	449.4	408.6	381.3	338.2	297.3
11269.8	65°	7395.2	2285.7	531.1	406.3	390.4	372.3	347.3	322.3	270.1	229.3
7352.0	67.5°	4664.5	1082.7	379.1	306.4	308.7	299.6	288.3	267.8	229.3	192.9
3293.5	70°	2054.2	524.3	249.7	233.8	229.3	229.3	238.3	231.5	195.2	161.2
1144.0	72.5°	699.1	281.5	186.1	177.0	165.7	163.4	199.7	192.9	156.6	124.8
569.7	75°	365.4	188.4	136.2	127.1	99.9	120.3	158.9	149.8	111.2	81.7
376.8	77.5°	238.3	133.9	93.1	81.7	56.7	79.4	118.0	104.4	65.8	40.9
247.4	80°	149.8	88.5	54.5	38.6	27.2	43.1	63.6	45.4	25.0	9.1
145.3	82.5°	79.4	45.4	20.4	13.6	11.3	13.6	15.9	11.3	4.5	0.0
74.9	85°	31.8	15.9	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>
4489.8
4194.7
3511.4
2617.1
1765.9
1430.0
1393.7
1373.3
1341.5
1309.7
1289.3
1273.4
1257.5
1241.6
1230.3
1216.6
1173.5
1078.2
953.3
824.0
708.2
606.0
522.1
442.6
370.0
290.5
222.4
188.4
154.3
<i>118.0</i>
74.9
36.3
6.8
0.0
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0.0
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