

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: P956078

Luminaire Tested: **GALN-SB8D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956078  
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-SB8D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

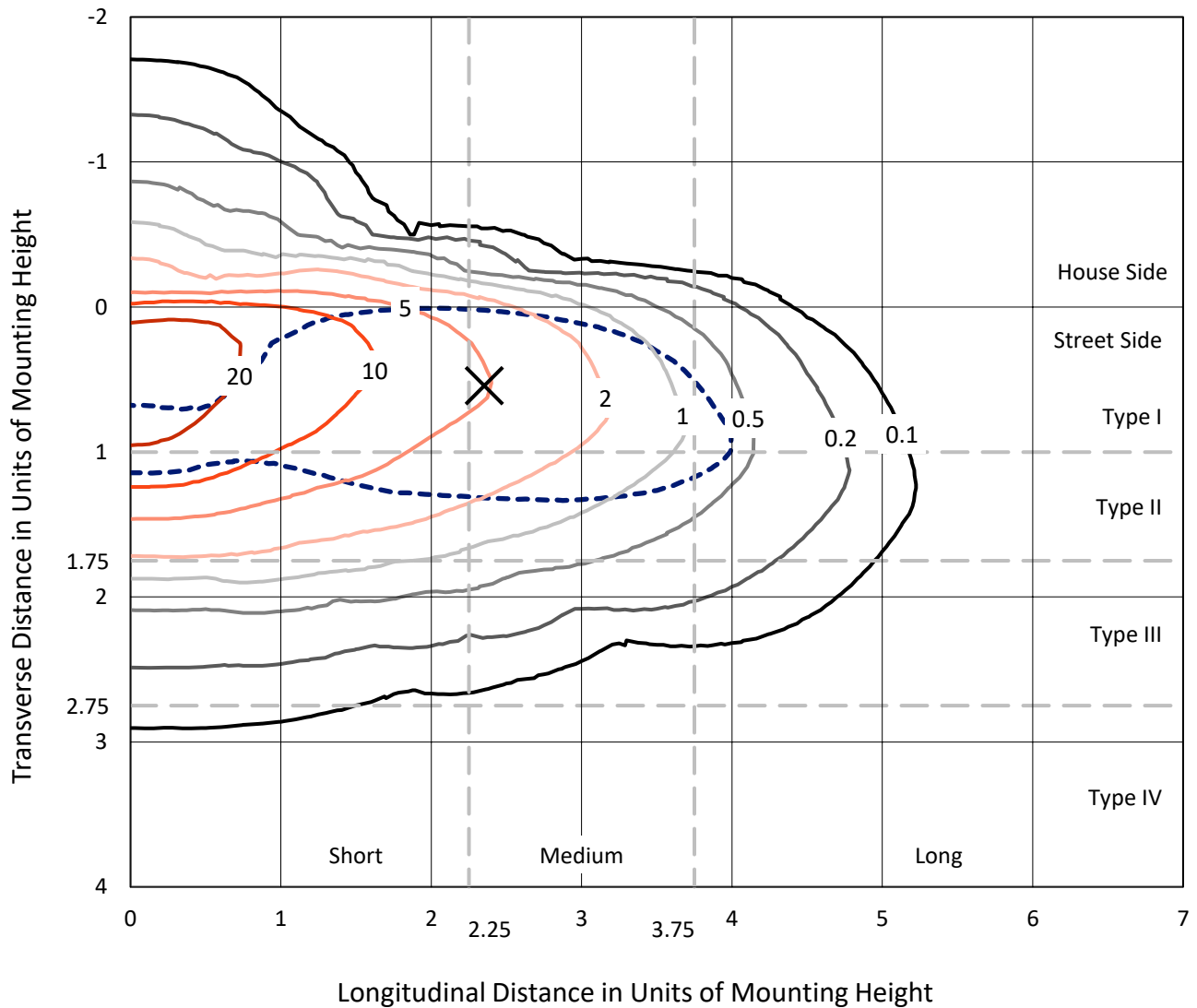
Lumens per Lamp: N/A  
Luminaire Lumens: 62601 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

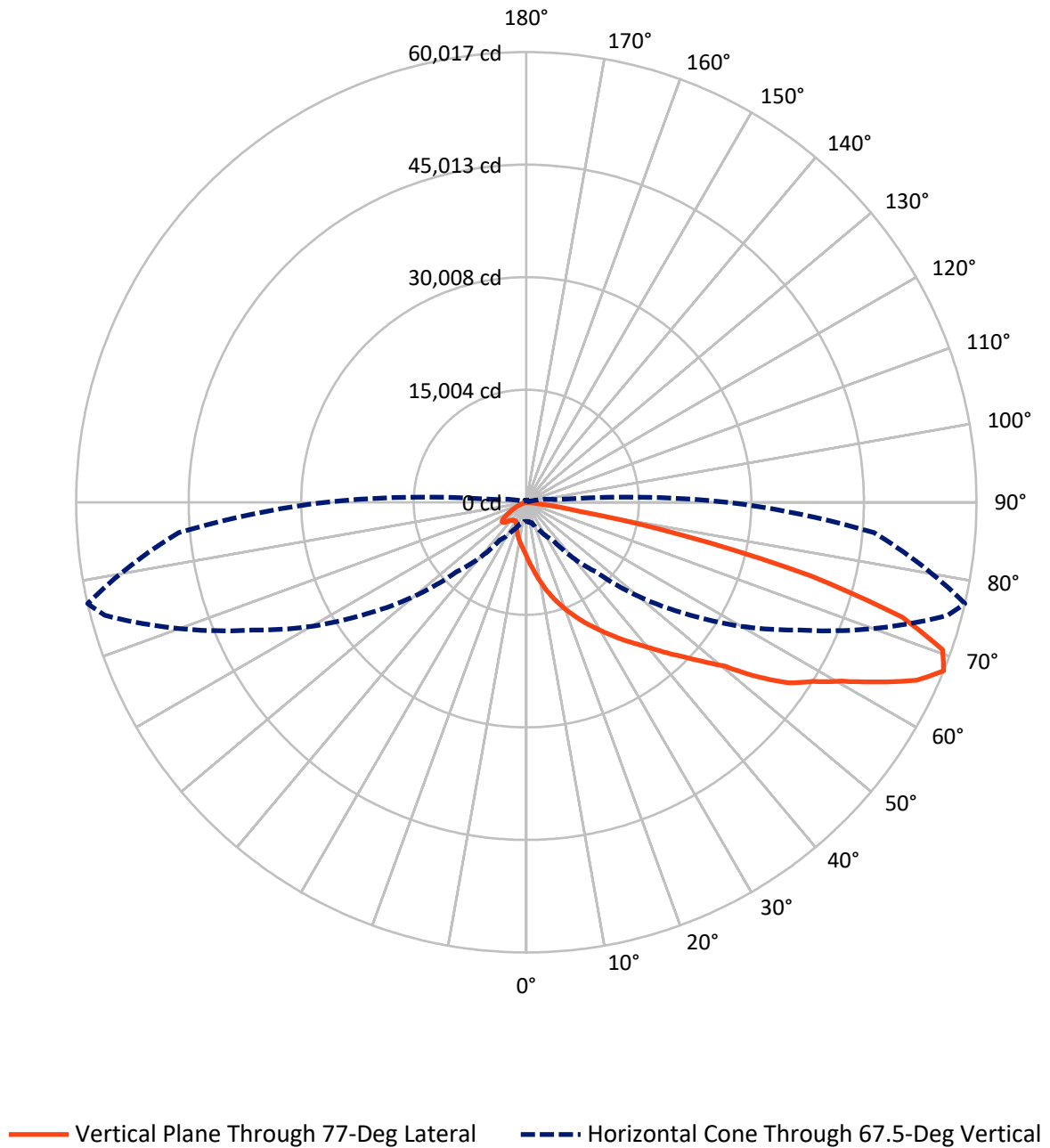
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4605.6	0.0	4605.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	57995.4	0.0	57995.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	62601.0	0.0	62601.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.8	1.2
10°-20°	2580.2	4.1
20°-30°	4979.0	8.0
30°-40°	8643.9	13.8
40°-50°	12550.5	20.0
50°-60°	14412.6	23.0
60°-70°	12512.8	20.0
70°-80°	5893.7	9.4
80°-90°	291.5	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°	62601.0	100.0
0°-180°	62601.0	100.0

**Coefficient of Utilization**



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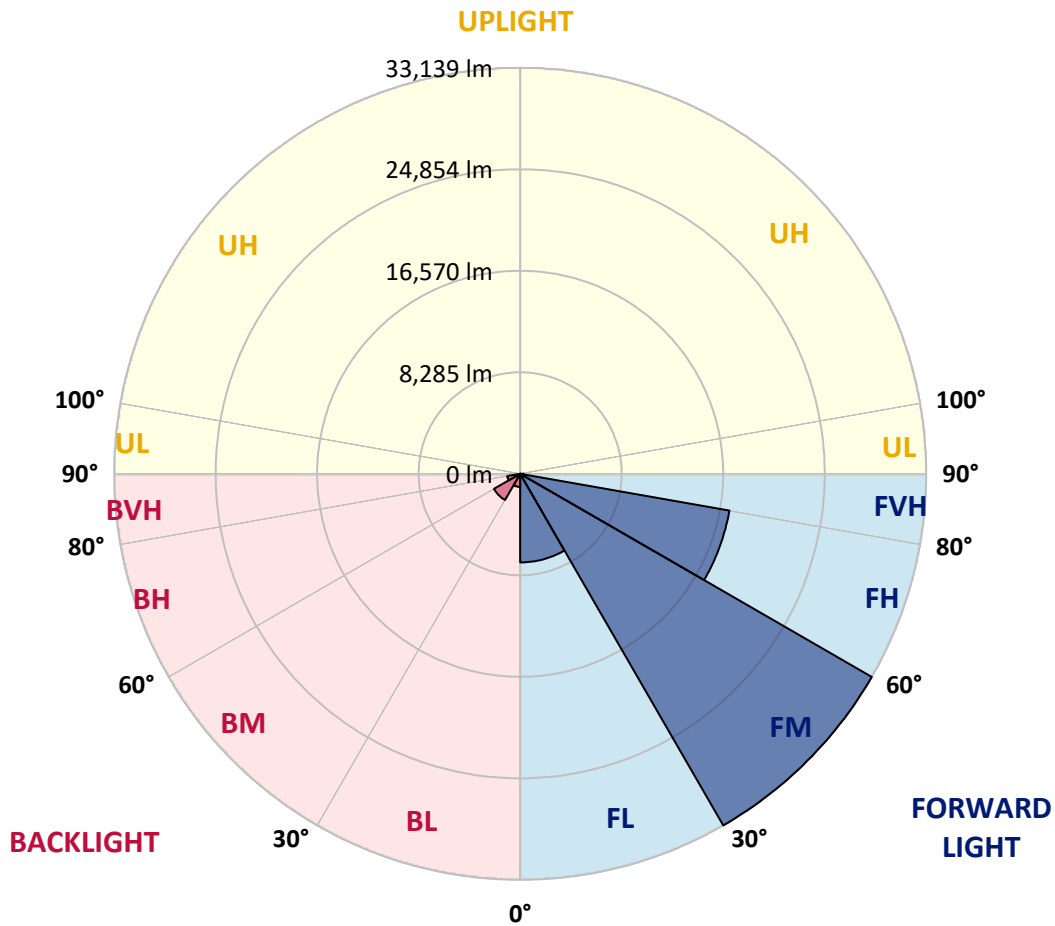
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7229.7	11.5			
FM (30°-60°)	33139.3	52.9			
FH (60°-80°)	17340.3	27.7			G5
FVH (80°-90°)	286.1	0.5			G3/500
BL (0°-30°)	1066.3	1.7	B3/2500		
BM (30°-60°)	2467.7	3.9	B2/2500		
BH (60°-80°)	1066.2	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8
2.5°	9994.4	10056.6	9967.2	9796.1	9539.6	9372.4	8964.2	8579.4	8151.8	8015.7
5°	12183.0	12237.4	12136.3	11949.7	11607.6	11281.1	10744.6	9940.0	9104.2	8836.0
7.5°	13804.0	13835.1	13796.2	13625.2	13298.6	12929.3	12330.7	11378.3	10138.2	9842.8
10°	14970.2	15071.3	15059.6	14993.5	14775.8	14476.5	13839.0	12754.4	11296.6	10915.7
12.5°	15743.8	15856.5	15922.6	16070.3	16058.7	15868.2	15308.4	14161.6	12451.2	12004.1
15°	15969.2	16089.8	16342.4	16684.5	16987.7	17084.9	16692.3	15541.6	13722.4	13150.9
17.5°	15841.0	16027.6	16330.8	16871.1	17535.9	17975.1	17932.4	16875.0	14876.9	14223.8
20°	16124.7	16303.6	16540.7	16995.5	17769.1	18566.0	18884.8	18150.1	16023.7	15339.5
22.5°	17695.2	17664.1	17687.5	17761.3	18223.9	19013.0	19670.0	19308.5	17158.8	16459.1
25°	20183.1	20043.2	19806.1	19405.7	19289.0	19670.0	20354.2	20334.7	18356.1	17605.8
27.5°	23036.5	23013.1	22457.2	21493.2	20948.9	20801.2	21127.8	21333.8	19541.7	18740.9
30°	25769.3	25831.5	25081.2	24008.3	23009.2	22430.0	22134.6	22282.3	20746.8	19965.4
32.5°	28148.3	28214.4	27398.1	26142.5	24906.3	24206.6	23584.6	23219.2	22060.7	21209.4
35°	30158.1	30224.2	29287.3	27899.5	26581.7	25948.1	25244.5	24245.4	23382.4	22589.4
37.5°	31954.0	31934.6	30679.0	29279.5	27985.1	27483.6	27114.3	25508.8	24743.0	23977.2
40°	33015.3	33096.9	32024.0	30480.7	29225.1	28859.7	28836.4	27075.4	26313.5	25571.0
42.5°	33326.3	33470.1	32692.6	31425.4	30286.4	29889.9	30500.2	28770.3	28140.6	27417.5
45°	32766.5	32906.4	32552.7	31674.2	31009.4	30752.9	31930.7	30527.4	30092.0	29376.7
47.5°	31133.8	31308.7	31394.3	31207.7	31199.9	31460.4	33213.5	32377.8	32408.9	31678.0
50°	27973.4	28268.8	29054.1	29714.9	30737.3	32020.1	34461.4	34383.6	35021.2	34391.4
52.5°	22227.9	22647.7	25353.3	27160.9	29458.4	31915.2	35833.6	37602.4	39604.4	38683.1
55°	17862.4	17862.4	20062.6	23444.6	26962.7	31223.2	36432.3	39693.8	42725.9	42508.2
57.5°	14562.0	14737.0	16140.3	19129.7	23351.3	29575.0	36801.6	41007.7	45241.0	45081.6
60°	8987.6	9364.6	12015.8	14966.3	19242.4	26640.0	36568.3	42337.2	48292.6	48420.9
62.5°	5061.3	5201.3	6383.0	10768.0	14962.4	22694.4	34784.0	43079.7	52195.5	52739.7
65°	3494.7	3564.7	4019.5	6701.8	10371.5	18068.4	31297.1	42617.1	56106.2	57206.3
67.5°	2538.4	2573.4	2857.2	4093.4	6153.7	13100.4	25831.5	40284.6	58178.1	60016.9
70°	1951.5	1974.8	2180.8	2690.0	3634.7	8085.7	18760.4	35647.0	56677.6	58874.0
72.5°	1586.0	1609.4	1768.7	1990.3	2410.2	4781.4	11370.5	28949.1	50053.6	52424.8
75°	1337.2	1368.3	1512.2	1656.0	1889.3	3071.0	5333.4	20159.8	37641.2	39196.2
77.5°	742.5	684.2	1228.4	1372.2	1593.8	1943.7	2495.7	11864.2	21081.1	21512.6
80°	462.6	478.1	975.7	1104.0	1224.5	979.6	1142.9	4567.6	7308.2	6942.8
82.5°	27.2	62.2	750.3	796.9	839.7	419.8	431.5	1551.1	1761.0	1617.1
85°	0.0	0.0	342.1	276.0	291.6	120.5	124.4	361.5	237.1	256.6
87.5°	0.0	0.0	0.0	7.8	0.0	11.7	23.3	31.1	11.7	15.5
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°
7218.8	0°	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8	7218.8
7588.1	2.5°	7316.0	7043.9	6491.9	5951.5	5512.3	5104.1	4812.5	4536.5	4396.6	4388.8
8077.9	5°	7537.6	6966.1	5862.1	4886.4	4101.2	3471.4	3063.2	2771.7	2624.0	2573.4
8680.5	7.5°	7848.6	6989.5	5310.1	3953.4	3028.2	2487.9	2254.7	2161.4	2130.3	2095.3
9360.7	10°	8241.2	7043.9	4816.4	3183.7	2386.8	2114.7	2021.4	1982.6	1959.2	1935.9
10126.6	12.5°	8680.5	7094.4	4326.6	2643.4	2099.2	1959.2	1893.1	1846.5	1815.4	1788.2
10911.8	15°	9108.1	7125.5	3817.4	2266.3	1951.5	1838.7	1768.7	1718.2	1675.4	1644.4
11681.5	17.5°	9531.8	7168.3	3339.2	2040.9	1830.9	1718.2	1648.2	1586.0	1551.1	1516.1
12490.1	20°	10002.2	7160.5	2888.3	1881.5	1710.4	1597.7	1523.8	1465.5	1430.5	1391.7
13345.3	22.5°	10437.5	7121.6	2491.8	1745.4	1586.0	1477.2	1395.6	1337.2	1302.3	1271.2
14219.9	25°	10939.0	7090.5	2161.4	1621.0	1469.4	1360.6	1271.2	1216.7	1177.9	1150.7
15098.5	27.5°	11421.0	7043.9	1920.4	1508.3	1356.7	1251.7	1166.2	1104.0	1069.0	1049.6
16004.2	30°	11895.3	7032.2	1830.9	1399.4	1255.6	1150.7	1065.1	1006.8	979.6	971.8
16999.4	32.5°	12466.7	7063.3	1869.8	1360.6	1162.3	1057.4	975.7	933.0	905.8	905.8
18107.3	35°	13077.1	7055.5	1928.1	1395.6	1100.1	964.1	901.9	874.7	847.4	847.4
19335.7	37.5°	13842.9	7067.2	1974.8	1453.9	1076.8	886.3	851.3	816.3	800.8	800.8
20680.7	40°	14985.7	7452.1	1951.5	1504.4	1069.0	831.9	761.9	750.3	738.6	738.6
22200.7	42.5°	16385.2	8287.8	1982.6	1508.3	1065.1	793.0	699.7	723.0	695.8	691.9
23915.0	45°	17916.8	9201.4	2180.8	1426.7	1061.2	773.6	668.6	695.8	653.1	653.1
25901.4	47.5°	19436.8	10107.1	2382.9	1310.0	1049.6	769.7	641.4	625.9	614.2	618.1
28490.4	50°	21532.1	10845.7	2460.7	1150.7	1022.4	761.9	590.9	594.8	587.0	594.8
32140.6	52.5°	23813.9	11001.2	2367.4	971.8	944.6	738.6	555.9	571.4	567.6	575.3
34710.2	55°	25236.7	10834.1	1955.3	808.6	824.1	645.3	520.9	552.0	552.0	552.0
37221.4	57.5°	26706.1	10122.7	1387.8	657.0	684.2	528.7	489.8	532.6	528.7	524.8
40245.8	60°	27763.5	8972.0	913.5	540.3	544.2	435.4	454.8	501.5	497.6	478.1
43363.4	62.5°	28552.6	7700.8	587.0	458.7	415.9	392.6	415.9	454.8	439.3	396.5
46006.8	65°	28463.2	5939.9	450.9	392.6	342.1	342.1	361.5	396.5	349.9	279.9
46512.2	67.5°	26803.3	4019.5	373.2	330.4	287.7	283.8	299.3	330.4	299.3	237.1
43923.2	70°	23837.3	2627.9	299.3	256.6	229.4	209.9	241.0	283.8	252.7	190.5
37392.5	72.5°	19347.4	1601.6	225.5	186.6	167.2	136.1	190.5	233.2	202.1	139.9
26002.5	75°	12517.3	816.3	155.5	120.5	89.4	81.6	139.9	174.9	139.9	85.5
11537.7	77.5°	4789.2	342.1	85.5	54.4	46.6	38.9	77.7	105.0	58.3	19.4
2235.2	80°	921.3	143.8	42.8	27.2	23.3	15.5	11.7	7.8	0.0	0.0
396.5	82.5°	159.4	46.6	15.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.7	85°	54.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.2	87.5°	19.4	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>
7218.8
4381.0
2565.7
2087.5
1928.1
1780.4
1640.5
1512.2
1387.8
1267.3
1146.8
1049.6
968.0
905.8
847.4
800.8
738.6
688.1
653.1
618.1
594.8
575.3
552.0
524.8
478.1
388.7
272.1
229.4
182.7
132.2
73.9
15.5
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