

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: P956792

Luminaire Tested: **GALN-SB9B-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956792  
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-SB9B-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

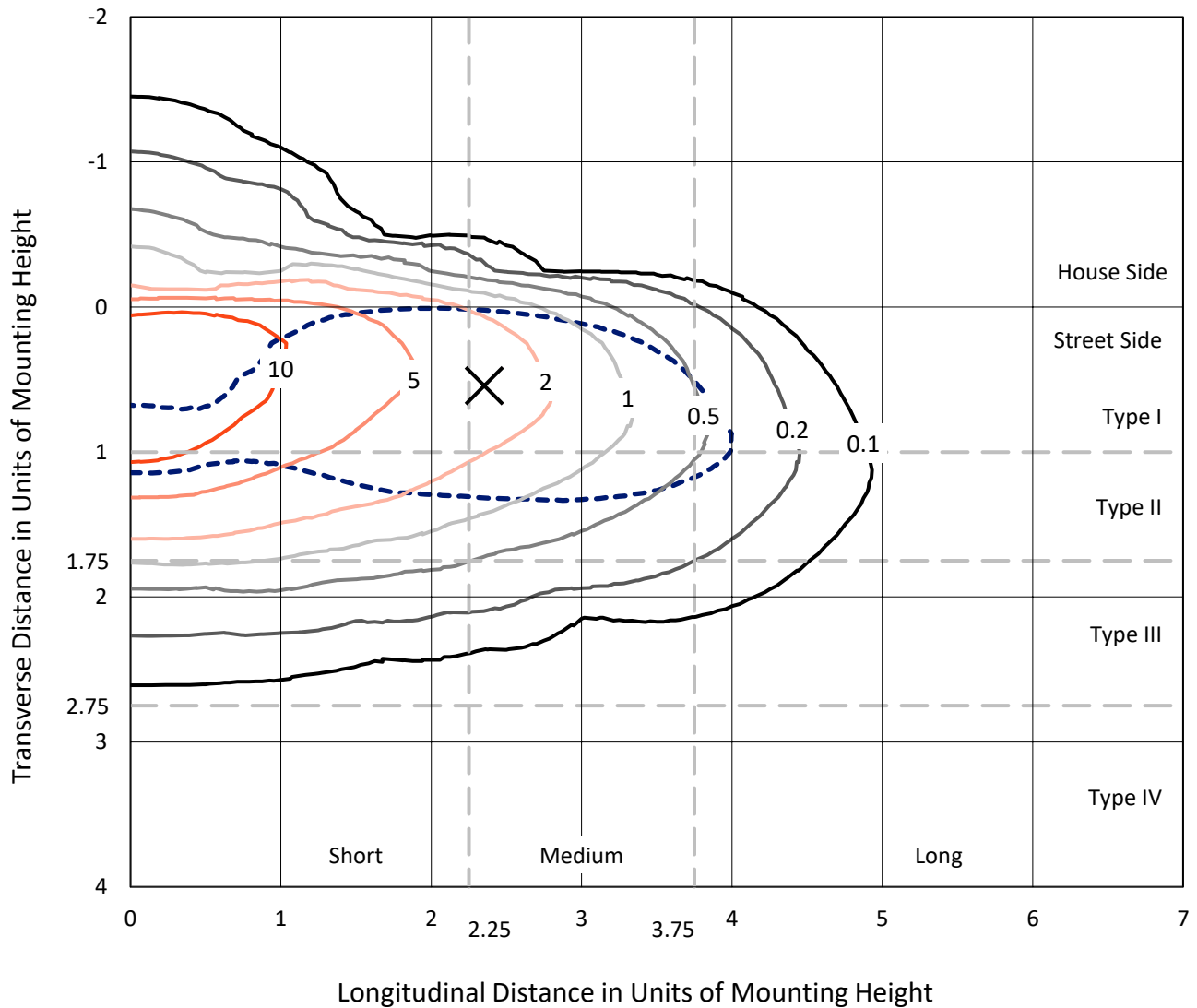
Lumens per Lamp: N/A  
Luminaire Lumens: 39020 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

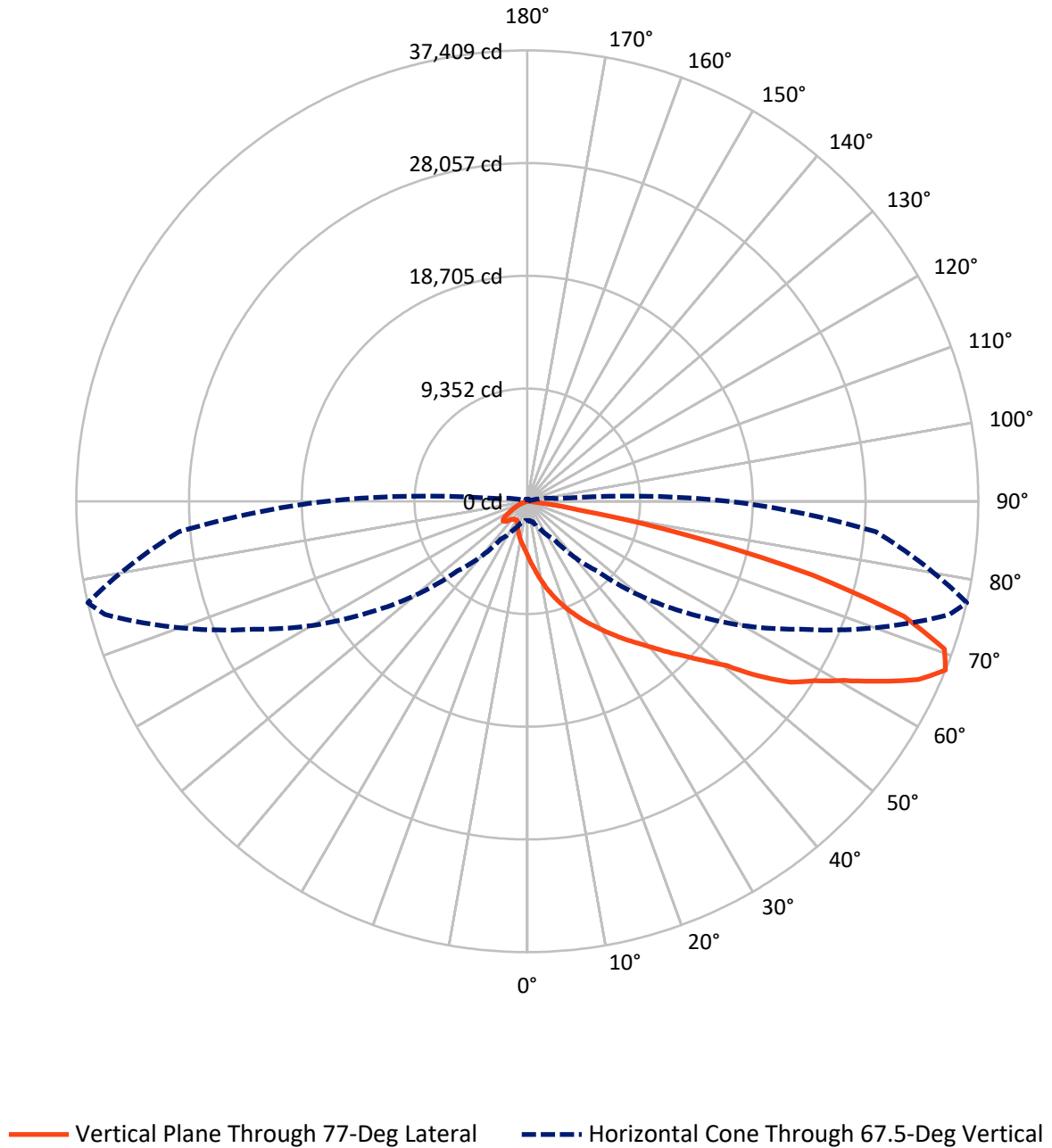
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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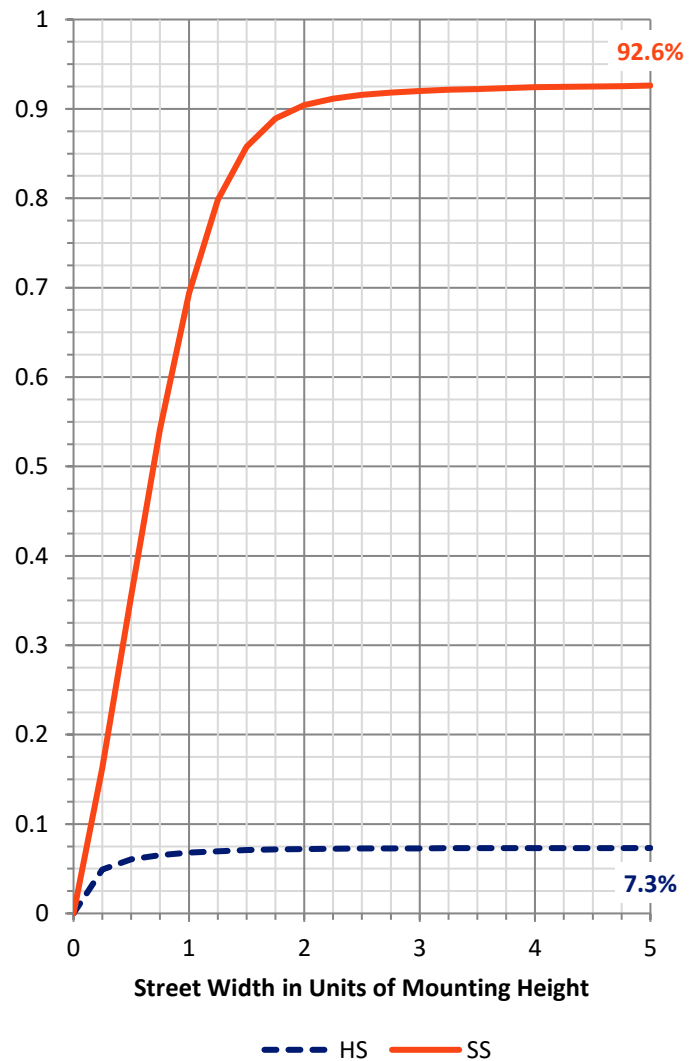
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2870.7	0.0	2870.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	36149.3	0.0	36149.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	39020.0	0.0	39020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.3	1.2
10°-20°	1608.3	4.1
20°-30°	3103.5	8.0
30°-40°	5387.8	13.8
40°-50°	7822.9	20.0
50°-60°	8983.6	23.0
60°-70°	7799.4	20.0
70°-80°	3673.6	9.4
80°-90°	181.7	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°	39020.0	100.0
0°-180°	39020.0	100.0

**Coefficient of Utilization**



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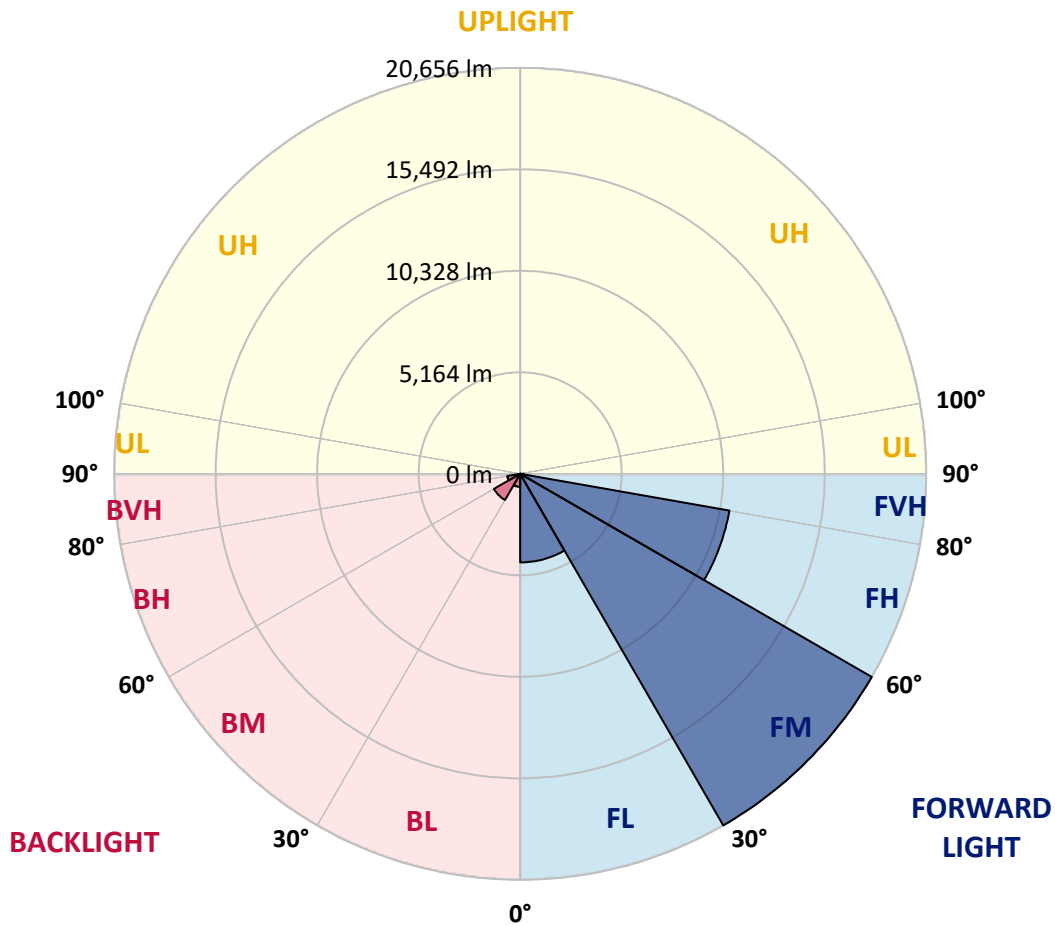
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4506.4	11.5			
FM (30°-60°)	20656.1	52.9			
FH (60°-80°)	10808.4	27.7			G4/12000
FVH (80°-90°)	178.3	0.5			G2/225
BL (0°-30°)	664.6	1.7	B2/1000		
BM (30°-60°)	1538.2	3.9	B2/2500		
BH (60°-80°)	664.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6
2.5°	6229.6	6268.4	6212.7	6106.1	5946.1	5841.9	5587.5	5347.6	5081.1	4996.3
5°	7593.8	7627.7	7564.7	7448.4	7235.2	7031.7	6697.3	6195.7	5674.8	5507.6
7.5°	8604.2	8623.6	8599.4	8492.7	8289.2	8059.0	7685.9	7092.2	6319.3	6135.1
10°	9331.1	9394.1	9386.8	9345.7	9210.0	9023.4	8626.0	7950.0	7041.3	6803.9
12.5°	9813.3	9883.6	9924.8	10016.8	10009.6	9890.8	9541.9	8827.1	7761.0	7482.3
15°	9953.8	10028.9	10186.4	10399.7	10588.7	10649.2	10404.5	9687.3	8553.3	8197.1
17.5°	9873.9	9990.2	10179.2	10516.0	10930.3	11204.1	11177.5	10518.4	9273.0	8865.9
20°	10050.8	10162.2	10310.0	10593.5	11075.7	11572.4	11771.1	11313.2	9987.8	9561.3
22.5°	11029.7	11010.3	11024.8	11070.9	11359.2	11851.1	12260.6	12035.2	10695.3	10259.1
25°	12580.4	12493.2	12345.4	12095.8	12023.1	12260.6	12687.0	12674.9	11441.6	10973.9
27.5°	14358.9	14344.4	13997.9	13397.0	13057.7	12965.7	13169.2	13297.6	12180.6	11681.5
30°	16062.3	16101.1	15633.4	14964.7	14342.0	13980.9	13796.8	13888.8	12931.7	12444.7
32.5°	17545.2	17586.4	17077.6	16294.9	15524.4	15088.3	14700.6	14472.8	13750.7	13220.1
35°	18797.9	18839.1	18255.2	17390.1	16568.7	16173.8	15735.2	15112.5	14574.6	14080.3
37.5°	19917.4	19905.2	19122.6	18250.3	17443.4	17130.9	16900.7	15900.0	15422.6	14945.3
40°	20578.9	20629.7	19961.0	18999.0	18216.4	17988.6	17974.1	16876.5	16401.5	15938.7
42.5°	20772.7	20862.3	20377.7	19587.8	18877.9	18630.7	19011.1	17932.9	17540.4	17089.7
45°	20423.8	20511.0	20290.5	19742.9	19328.6	19168.6	19902.8	19028.1	18756.7	18310.9
47.5°	19406.1	19515.1	19568.4	19452.1	19447.3	19609.6	20702.4	20181.5	20200.9	19745.3
50°	17436.2	17620.3	18109.8	18521.7	19159.0	19958.6	21480.2	21431.8	21829.1	21436.6
52.5°	13854.9	14116.6	15803.0	16929.8	18361.8	19893.1	22335.6	23438.0	24685.9	24111.6
55°	11133.9	11133.9	12505.3	14613.3	16806.2	19461.8	22708.7	24741.6	26631.6	26495.9
57.5°	9076.7	9185.7	10060.4	11923.8	14555.2	18434.5	22938.9	25560.6	28199.3	28100.0
60°	5602.1	5837.1	7489.6	9328.7	11994.0	16605.1	22793.5	26389.3	30101.4	30181.3
62.5°	3154.8	3242.0	3978.6	6711.8	9326.3	14145.7	21681.3	26852.1	32534.1	32873.3
65°	2178.3	2221.9	2505.4	4177.3	6464.7	11262.3	19507.9	26563.8	34971.7	35657.4
67.5°	1582.2	1604.1	1780.9	2551.5	3835.7	8165.6	16101.1	25109.9	36263.2	37409.3
70°	1216.4	1230.9	1359.3	1676.7	2265.5	5039.9	11693.6	22219.2	35327.9	36696.9
72.5°	988.6	1003.1	1102.5	1240.6	1502.3	2980.3	7087.4	18044.4	31199.0	32677.1
75°	833.5	852.9	942.6	1032.2	1177.6	1914.2	3324.4	12565.9	23462.3	24431.5
77.5°	462.8	426.5	765.7	855.3	993.4	1211.5	1555.6	7395.1	13140.1	13409.1
80°	288.3	298.0	608.2	688.1	763.3	610.6	712.4	2847.1	4555.3	4327.5
82.5°	17.0	38.8	467.6	496.7	523.4	261.7	269.0	966.8	1097.6	1008.0
85°	0.0	0.0	213.2	172.0	181.7	75.1	77.5	225.3	147.8	159.9
87.5°	0.0	0.0	0.0	4.8	0.0	7.3	14.5	19.4	7.3	9.7
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°
4499.6	0°	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6
4729.8	2.5°	4560.2	4390.5	4046.5	3709.7	3435.9	3181.4	2999.7	2827.7	2740.5	2735.6
5035.1	5°	4698.3	4342.1	3653.9	3045.8	2556.3	2163.8	1909.4	1727.6	1635.5	1604.1
5410.6	7.5°	4892.1	4356.6	3309.9	2464.2	1887.5	1550.7	1405.4	1347.2	1327.8	1306.0
5834.7	10°	5136.8	4390.5	3002.1	1984.5	1487.7	1318.1	1260.0	1235.7	1221.2	1206.7
6312.0	12.5°	5410.6	4422.0	2696.8	1647.7	1308.4	1221.2	1180.0	1150.9	1131.6	1114.6
6801.5	15°	5677.2	4441.4	2379.4	1412.6	1216.4	1146.1	1102.5	1071.0	1044.3	1024.9
7281.2	17.5°	5941.3	4468.1	2081.4	1272.1	1141.3	1071.0	1027.4	988.6	966.8	945.0
7785.2	20°	6234.5	4463.2	1800.3	1172.7	1066.1	995.9	949.8	913.5	891.7	867.4
8318.3	22.5°	6505.9	4439.0	1553.2	1087.9	988.6	920.8	869.9	833.5	811.7	792.3
8863.5	25°	6818.4	4419.6	1347.2	1010.4	915.9	848.1	792.3	758.4	734.2	717.2
9411.1	27.5°	7118.9	4390.5	1197.0	940.1	845.6	780.2	726.9	688.1	666.3	654.2
9975.6	30°	7414.5	4383.3	1141.3	872.3	782.6	717.2	663.9	627.6	610.6	605.8
10595.9	32.5°	7770.7	4402.7	1165.5	848.1	724.5	659.1	608.2	581.5	564.6	564.6
11286.5	35°	8151.1	4397.8	1201.8	869.9	685.7	600.9	562.1	545.2	528.2	528.2
12052.2	37.5°	8628.4	4405.1	1230.9	906.2	671.2	552.5	530.6	508.8	499.1	499.1
12890.6	40°	9340.8	4645.0	1216.4	937.7	666.3	518.5	474.9	467.6	460.4	460.4
13838.0	42.5°	10213.1	5165.9	1235.7	940.1	663.9	494.3	436.1	450.7	433.7	431.3
14906.5	45°	11167.8	5735.3	1359.3	889.3	661.5	482.2	416.8	433.7	407.1	407.1
16144.7	47.5°	12115.2	6299.9	1485.3	816.6	654.2	479.8	399.8	390.1	382.8	385.3
17758.4	50°	13421.2	6760.3	1533.8	717.2	637.3	474.9	368.3	370.7	365.9	370.7
20033.7	52.5°	14843.5	6857.2	1475.6	605.8	588.8	460.4	346.5	356.2	353.8	358.6
21635.3	55°	15730.4	6753.0	1218.8	504.0	513.7	402.2	324.7	344.1	344.1	344.1
23200.6	57.5°	16646.3	6309.6	865.0	409.5	426.5	329.5	305.3	332.0	329.5	327.1
25085.7	60°	17305.3	5592.4	569.4	336.8	339.2	271.4	283.5	312.6	310.1	298.0
27029.0	62.5°	17797.2	4800.0	365.9	285.9	259.3	244.7	259.3	283.5	273.8	247.1
28676.6	65°	17741.5	3702.4	281.1	244.7	213.2	213.2	225.3	247.1	218.1	174.5
28991.6	67.5°	16706.8	2505.4	232.6	206.0	179.3	176.9	186.6	206.0	186.6	147.8
27377.9	70°	14858.1	1638.0	186.6	159.9	143.0	130.8	150.2	176.9	157.5	118.7
23307.2	72.5°	12059.5	998.3	140.5	116.3	104.2	84.8	118.7	145.4	126.0	87.2
16207.7	75°	7802.2	508.8	96.9	75.1	55.7	50.9	87.2	109.0	87.2	53.3
7191.6	77.5°	2985.2	213.2	53.3	33.9	29.1	24.2	48.5	65.4	36.3	12.1
1393.2	80°	574.3	89.7	26.7	17.0	14.5	9.7	7.3	4.8	0.0	0.0
247.1	82.5°	99.3	29.1	9.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0
48.5	85°	33.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	12.1	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>
4499.6
2730.8
1599.2
1301.2
1201.8
1109.8
1022.5
942.6
865.0
789.9
714.8
654.2
603.3
564.6
528.2
499.1
460.4
428.9
407.1
385.3
370.7
358.6
344.1
327.1
298.0
242.3
169.6
143.0
113.9
82.4
46.0
9.7
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