

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: P946084

Luminaire Tested: **GALN-SB1D-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

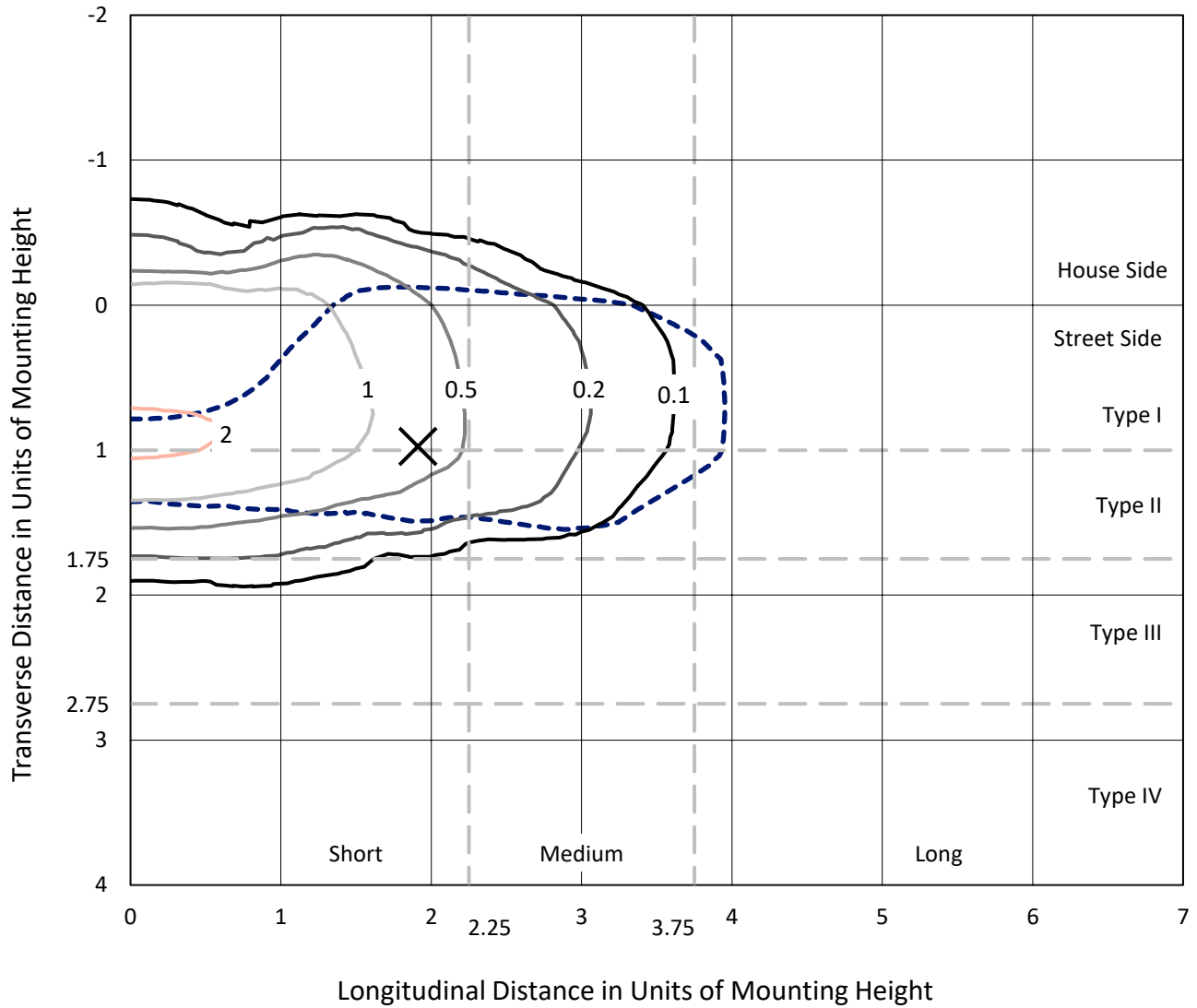
Lumens per Lamp: N/A  
Luminaire Lumens: 6990 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

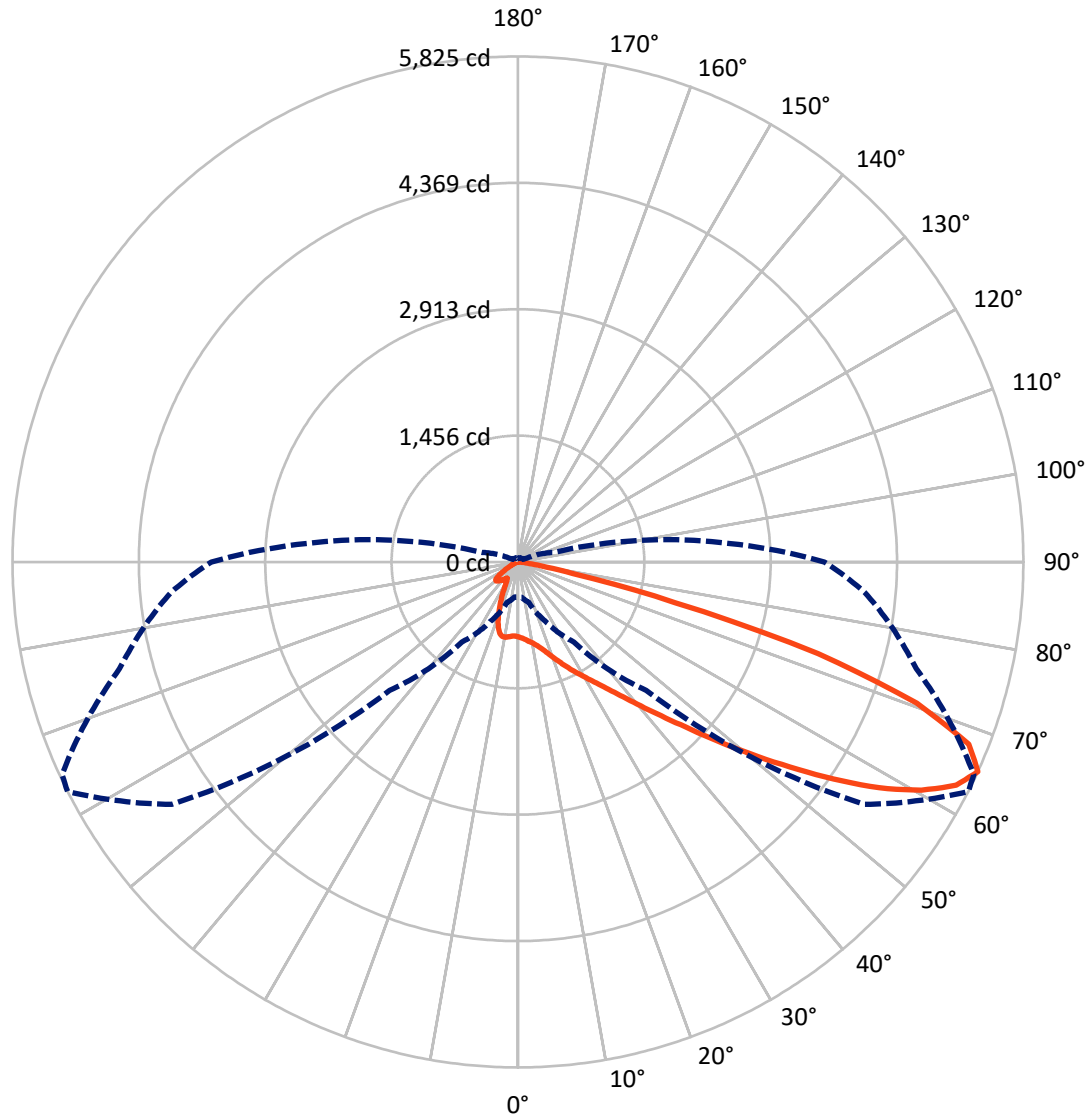
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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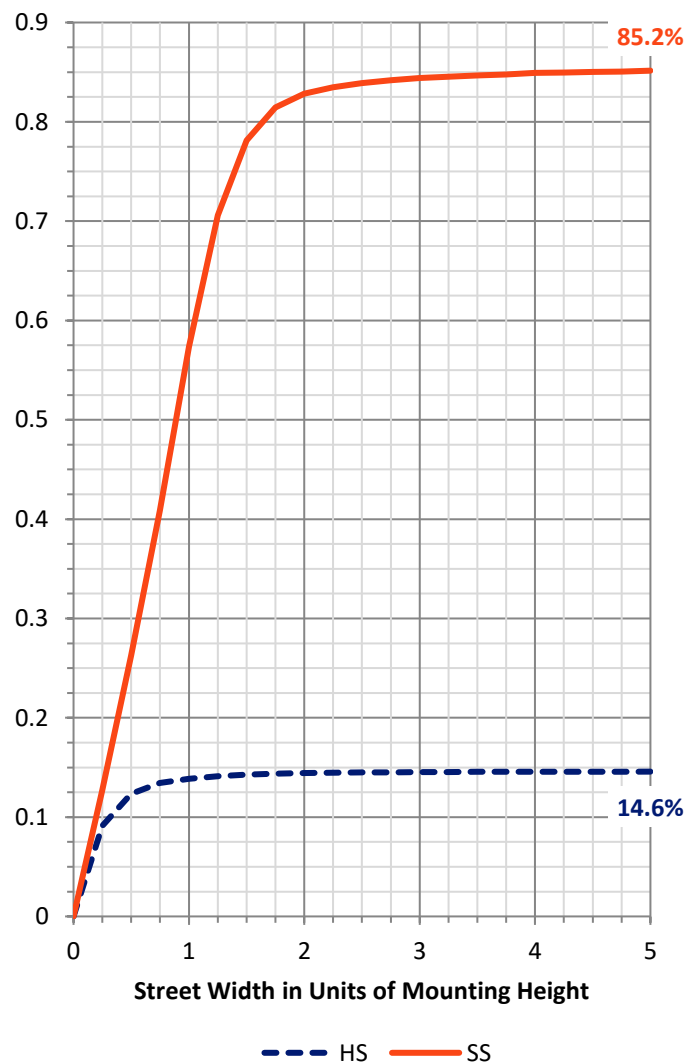
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1027.5	0.0	1027.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	5962.5	0.0	5962.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	6990.0	0.0	6990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	1.2
10°-20°	225.5	3.2
20°-30°	392.7	5.6
30°-40°	707.8	10.1
40°-50°	1403.8	20.1
50°-60°	1912.2	27.4
60°-70°	1526.3	21.8
70°-80°	690.7	9.9
80°-90°	49.6	0.7
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°	6990.0	100.0
0°-180°	6990.0	100.0

**Coefficient of Utilization**



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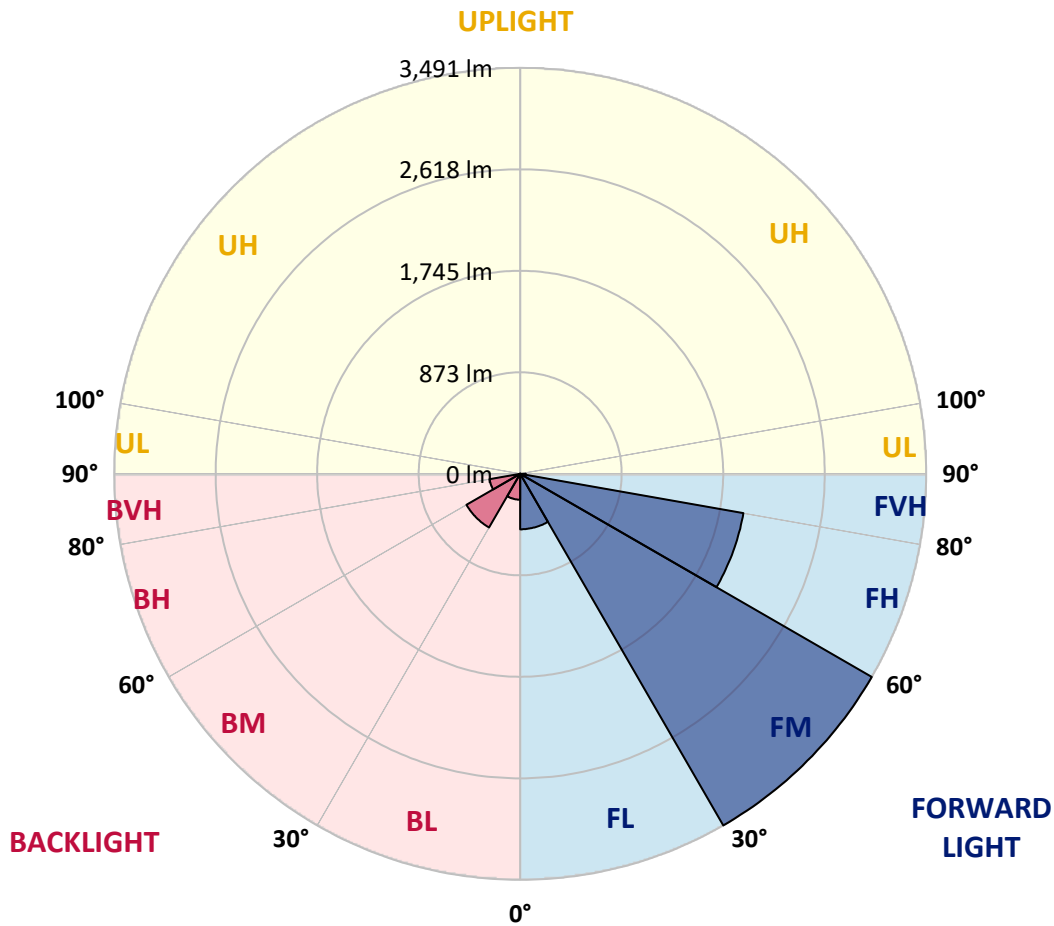
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.2	6.8			
FM (30°-60°)	3490.6	49.9			
FH (60°-80°)	1948.8	27.9			G2/5000
FVH (80°-90°)	46.0	0.7			G1/100
BL (0°-30°)	222.4	3.2	B1/500		
BM (30°-60°)	533.2	7.6	B1/1000		
BH (60°-80°)	268.2	3.8	B1/500		G1/500
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7
2.5°	882.9	880.5	883.9	882.4	881.5	879.5	878.6	877.6	875.7	874.2
5°	885.3	883.9	887.2	890.1	893.0	895.9	897.3	899.2	897.3	893.5
7.5°	865.1	864.1	871.4	880.0	893.0	904.1	916.1	922.8	923.3	921.8
10°	863.7	861.3	868.5	879.0	895.9	915.6	936.8	951.2	953.1	959.4
12.5°	886.3	883.9	894.0	905.5	922.8	943.5	969.5	989.7	992.5	1001.2
15°	924.3	920.9	932.4	947.3	969.5	993.0	1020.4	1038.7	1041.1	1051.7
17.5°	968.5	965.1	978.6	994.5	1018.5	1050.7	1082.5	1102.7	1105.5	1112.3
20°	1025.2	1020.9	1031.5	1045.9	1071.4	1109.9	1147.9	1176.7	1176.2	1176.2
22.5°	1091.1	1084.4	1093.5	1105.1	1129.1	1175.8	1226.2	1260.4	1260.4	1246.9
25°	1161.8	1155.1	1165.2	1175.8	1196.9	1249.8	1309.0	1351.3	1353.2	1330.1
27.5°	1250.3	1241.6	1249.3	1261.8	1274.3	1328.2	1398.4	1447.4	1448.4	1412.8
30°	1420.5	1396.0	1371.9	1358.5	1364.3	1417.6	1492.7	1547.0	1551.8	1502.7
32.5°	1732.1	1727.3	1642.7	1532.1	1474.4	1513.8	1598.0	1663.4	1666.2	1603.3
35°	2216.4	2210.6	2074.5	1863.9	1675.9	1642.7	1725.9	1803.3	1801.4	1730.2
37.5°	2794.4	2789.1	2609.7	2327.9	2023.5	1837.4	1890.8	1972.1	1984.1	1890.8
40°	3288.3	3268.5	3155.1	2883.4	2485.2	2160.6	2125.5	2179.3	2191.8	2081.2
42.5°	3662.4	3645.5	3587.8	3418.1	3044.0	2638.6	2402.0	2422.7	2436.6	2303.9
45°	3856.2	3852.3	3875.4	3859.5	3613.3	3225.3	2797.3	2711.2	2716.5	2550.6
47.5°	3883.6	3881.7	3987.0	4136.0	4102.9	3887.0	3304.6	3070.9	3052.1	2829.0
50°	3722.0	3718.2	3920.1	4199.5	4429.9	4442.8	3880.7	3476.3	3434.9	3117.1
52.5°	3206.0	3205.1	3536.9	4001.9	4544.8	4929.5	4450.1	3921.6	3852.3	3421.9
55°	2466.9	2484.7	2865.1	3414.7	4335.1	5163.7	4961.2	4415.9	4309.6	3728.7
57.5°	1747.5	1773.5	2149.5	2639.1	3685.0	5025.2	5307.0	4911.2	4796.8	4034.6
60°	938.7	961.8	1338.3	1922.6	2741.5	4508.7	5489.2	5341.1	5232.9	4325.0
62.5°	559.3	567.0	722.8	1241.2	1854.3	3444.5	5411.8	5668.6	5579.6	4568.8
65°	401.5	403.0	481.4	757.9	1125.7	2092.8	4868.9	5825.4	5798.0	4752.5
67.5°	338.1	337.1	369.8	503.5	767.0	1048.3	3731.6	5603.7	5720.1	4868.9
70°	290.0	291.4	329.9	368.8	576.6	593.4	1855.2	4879.0	5127.1	4899.7
72.5°	215.9	220.7	256.3	336.1	435.2	408.3	640.5	3617.7	4066.3	4616.4
75°	152.4	154.8	180.3	282.8	324.6	297.2	327.0	1870.1	2445.3	3539.3
77.5°	117.3	121.7	136.6	197.6	319.8	208.7	200.0	647.3	994.5	2138.0
80°	63.5	71.2	98.6	142.8	224.6	147.6	99.1	257.8	337.1	999.7
82.5°	32.7	36.5	68.8	102.9	127.9	128.9	49.0	107.2	139.0	308.7
85°	13.0	15.9	46.2	56.7	65.9	63.5	22.1	43.3	50.0	85.6
87.5°	2.9	4.8	16.8	13.0	12.5	13.5	5.3	10.1	9.6	10.1
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°
862.7	0°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7
868.5	2.5°	868.0	866.1	860.8	855.0	848.3	844.4	842.0	841.5	838.2	835.8
887.7	5°	882.4	880.5	870.4	858.4	845.4	835.3	825.7	817.0	804.5	802.1
915.6	7.5°	911.3	906.0	889.6	873.3	848.8	819.4	783.8	743.0	706.4	695.4
952.6	10°	946.9	939.6	919.0	890.1	835.8	755.9	669.9	590.0	526.6	508.8
996.4	12.5°	987.2	981.0	953.6	900.2	781.4	636.7	504.9	405.9	344.3	328.9
1043.0	15°	1035.3	1026.2	988.2	884.8	684.3	483.8	346.7	288.0	265.9	263.0
1096.4	17.5°	1086.3	1071.4	1019.0	829.5	553.5	343.8	267.8	251.0	241.4	238.5
1150.3	20°	1133.0	1113.7	1037.3	745.8	413.6	267.8	240.0	228.9	220.2	216.9
1204.1	22.5°	1179.6	1152.2	1037.3	631.9	310.2	237.6	220.2	210.1	200.0	195.7
1261.8	25°	1228.2	1191.6	1019.0	504.9	249.6	217.8	201.5	190.4	181.8	176.5
1316.6	27.5°	1275.3	1224.8	977.1	384.7	222.2	200.5	184.2	173.6	165.4	161.6
1376.3	30°	1320.0	1257.5	918.5	291.9	204.4	183.7	168.3	159.2	151.0	147.1
1453.7	32.5°	1380.6	1298.9	856.0	239.5	189.0	167.8	153.9	145.2	138.0	135.1
1554.2	35°	1464.8	1359.9	802.1	235.2	176.0	154.8	140.9	132.7	125.5	123.1
1684.0	37.5°	1584.0	1458.5	773.7	264.0	165.4	143.3	130.3	121.7	114.9	113.0
1849.0	40°	1731.2	1592.2	789.1	292.9	158.2	133.2	120.7	112.0	106.3	103.9
2038.4	42.5°	1905.7	1757.1	874.2	315.0	153.4	124.5	111.6	101.9	98.1	97.1
2253.4	45°	2106.3	1938.4	1004.6	338.5	145.7	116.4	102.4	95.2	92.3	91.8
2487.1	47.5°	2334.2	2137.5	1155.6	367.9	138.0	108.7	95.2	90.4	88.0	87.0
2730.9	50°	2560.2	2338.0	1310.9	384.2	131.8	101.5	89.4	85.6	83.7	83.2
2988.7	52.5°	2796.8	2544.3	1436.4	368.8	126.5	95.7	84.6	81.7	79.8	79.3
3226.2	55°	3022.3	2711.2	1458.0	313.1	115.9	89.9	79.3	77.9	75.5	75.5
3467.1	57.5°	3216.6	2794.9	1305.1	229.9	105.3	81.3	74.1	72.6	70.7	70.2
3684.5	60°	3395.0	2770.8	1007.4	154.8	93.8	72.6	67.3	66.4	64.4	62.0
3873.5	62.5°	3495.5	2665.0	689.1	101.0	82.2	63.5	59.6	59.1	54.8	50.0
4013.4	65°	3533.5	2447.7	429.9	73.6	68.8	54.3	51.5	50.5	44.2	39.0
4092.8	67.5°	3500.3	2089.9	216.9	58.2	54.3	45.2	42.3	42.3	38.0	33.2
4088.0	70°	3367.6	1566.7	91.4	46.6	41.8	34.6	34.6	36.5	32.2	26.9
3875.9	72.5°	3079.6	1054.1	48.6	35.6	31.3	24.5	28.4	29.8	25.5	20.2
3172.4	75°	2448.2	642.9	33.7	26.4	19.7	17.3	21.6	22.6	17.3	13.5
2175.0	77.5°	1674.4	369.3	22.6	16.8	12.5	10.1	14.9	13.9	9.1	6.3
838.7	80°	735.3	153.9	13.0	7.7	4.8	3.8	5.3	3.8	2.9	1.9
114.9	82.5°	86.1	36.1	4.8	2.9	1.9	1.0	0.5	0.0	0.0	0.0
35.1	85°	17.8	4.3	2.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	3.4	1.0	0.5	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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180°  
862.7  
838.2  
801.1  
690.1  
502.0  
324.6  
260.2  
237.1  
215.0  
193.3  
174.6  
161.6  
147.6  
135.1  
123.1  
112.5  
103.4  
97.1  
91.4  
87.0  
83.2  
79.3  
75.0  
69.7  
61.6  
49.0  
38.5  
32.7  
26.4  
20.2  
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