

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: P946530

Luminaire Tested: **GALN-SB2A-927-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-927-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

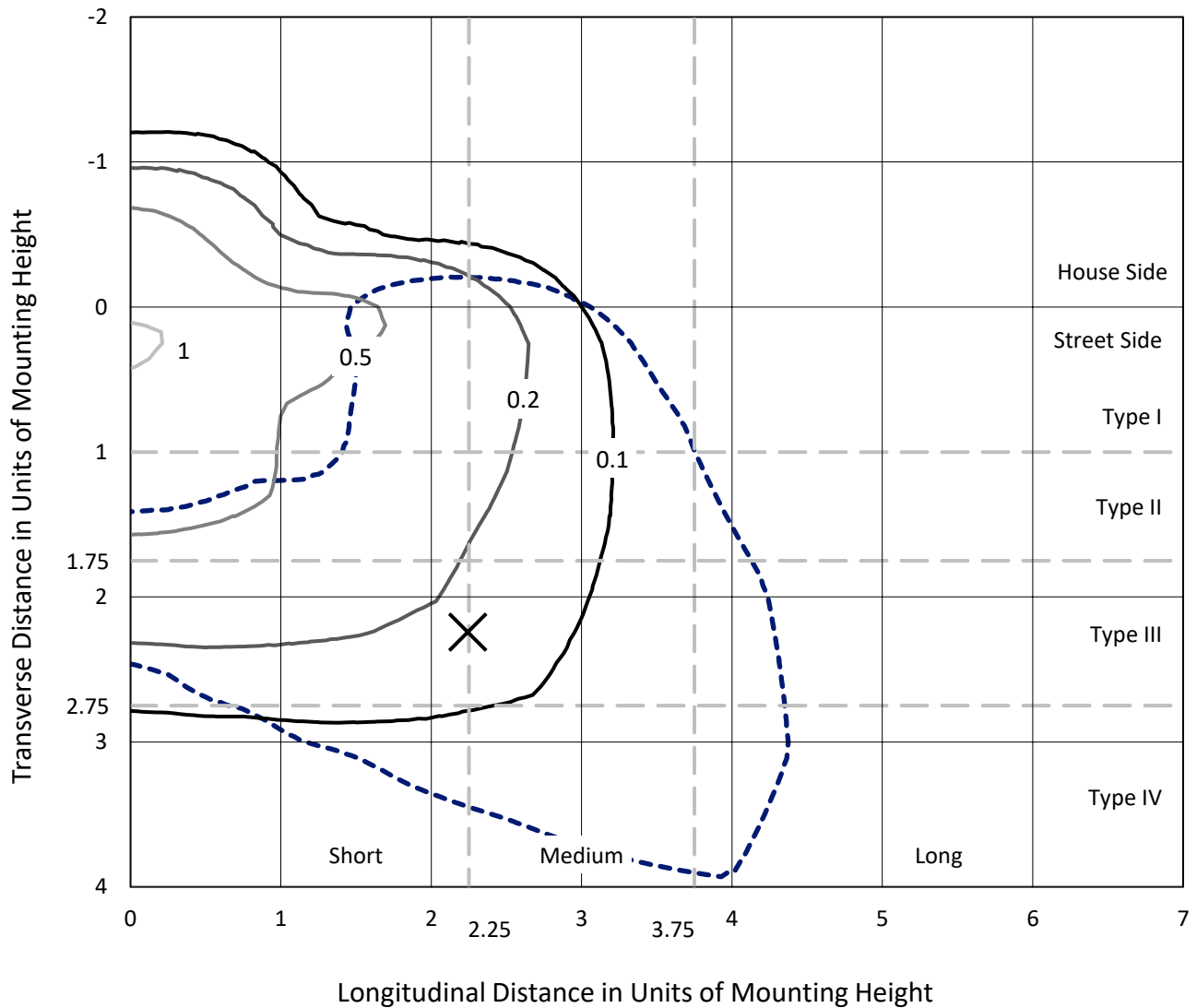
Lumens per Lamp: N/A  
Luminaire Lumens: 5450 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

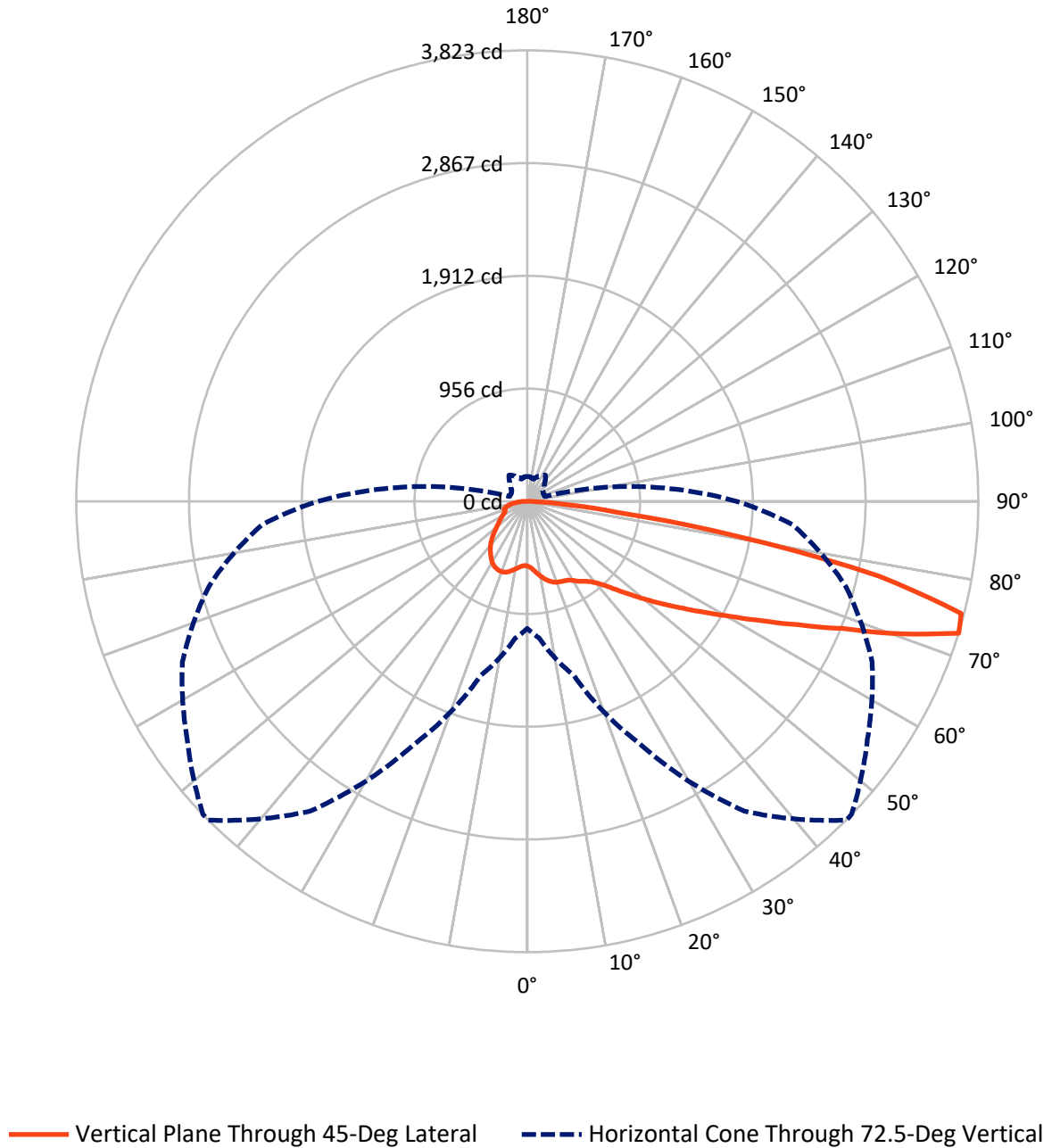
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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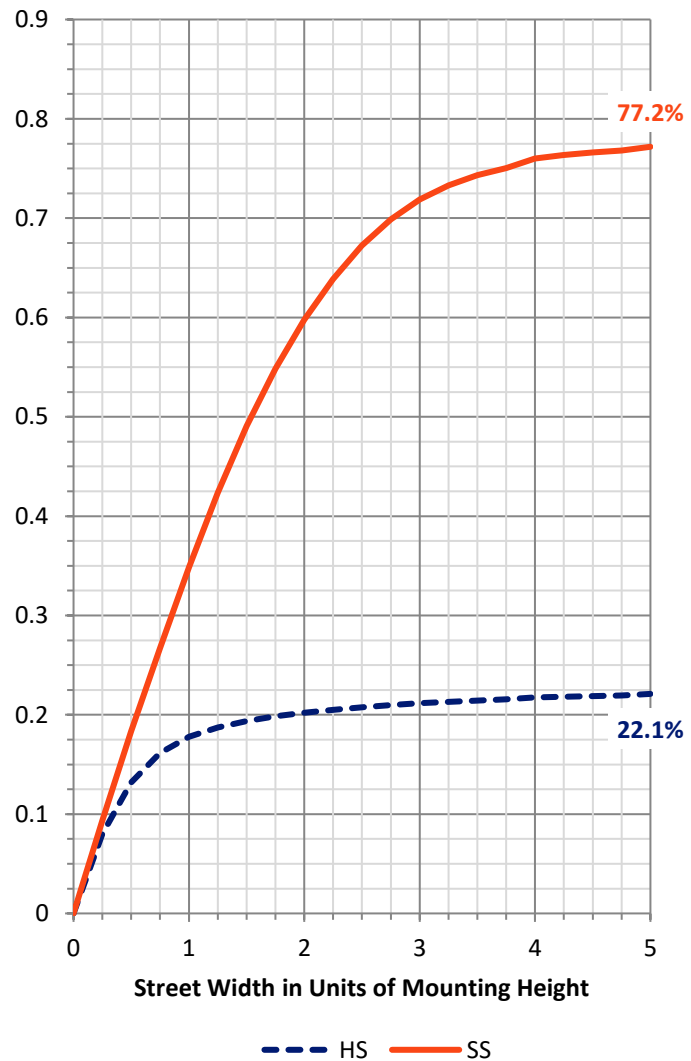
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.1	0.0	1232.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4217.9	0.0	4217.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5450.0	0.0	5450.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	1.0
10°-20°	186.6	3.4
20°-30°	324.6	6.0
30°-40°	465.3	8.5
40°-50°	655.1	12.0
50°-60°	1003.5	18.4
60°-70°	1453.7	26.7
70°-80°	1160.8	21.3
80°-90°	144.6	2.7
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°	5450.0	100.0
0°-180°	5450.0	100.0

**Coefficient of Utilization**



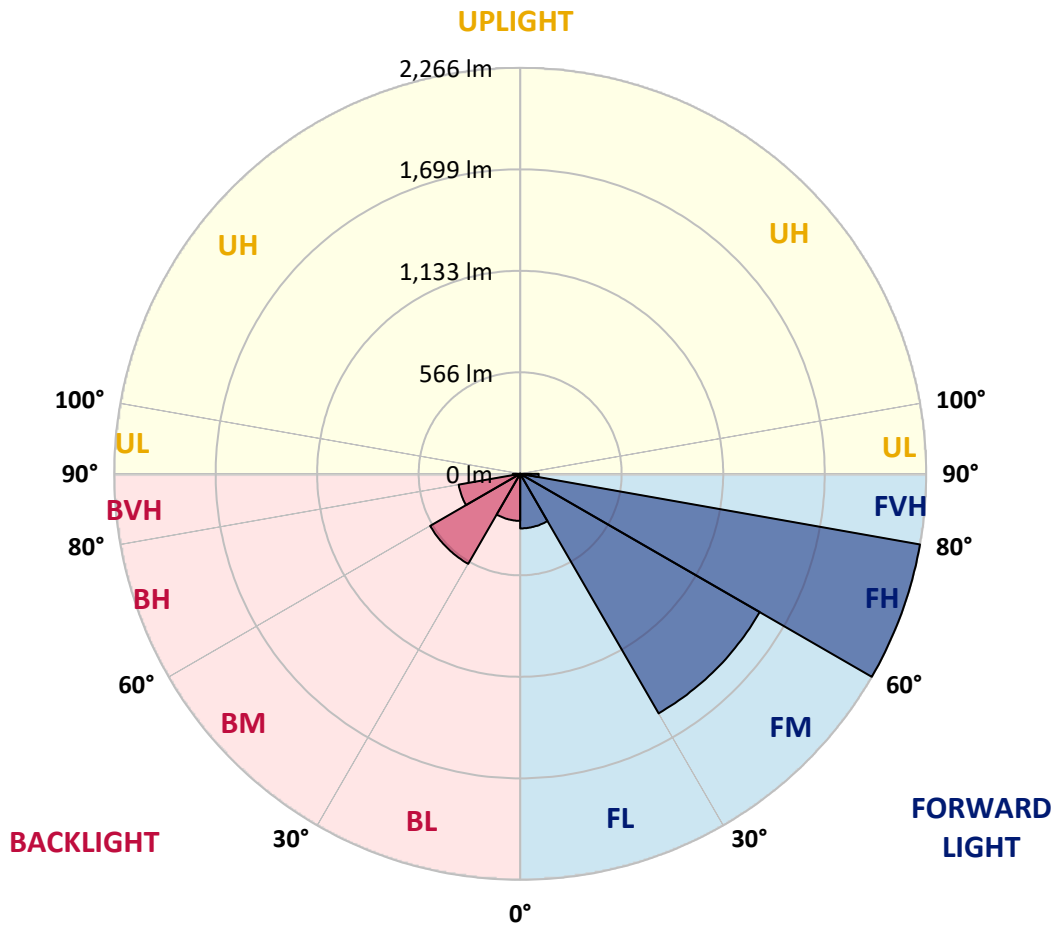
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.8	5.6			
FM (30°-60°)	1543.7	28.3			
FH (60°-80°)	2265.7	41.6			G2/5000
FVH (80°-90°)	103.7	1.9			G2/225
BL (0°-30°)	262.3	4.8	B1/500		
BM (30°-60°)	580.1	10.6	B1/1000		
BH (60°-80°)	348.8	6.4	B1/500		G1/500
BVH (80°-90°)	40.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	571.3	575.1	571.6	568.5	567.0	563.3	563.0	560.7	559.3	555.3
5°	611.2	616.1	610.4	604.1	598.3	589.1	588.0	581.4	573.9	565.3
7.5°	656.3	660.6	654.0	644.5	634.5	619.3	619.0	606.9	595.2	580.5
10°	695.6	701.4	692.5	679.6	666.9	649.7	647.7	633.9	619.0	600.0
12.5°	730.4	734.4	725.8	710.0	695.4	678.1	675.5	660.3	643.7	622.1
15°	757.9	763.1	751.6	734.7	719.2	702.2	700.0	686.2	669.5	646.8
17.5°	776.0	780.3	768.6	749.6	734.7	720.6	718.9	707.4	692.8	669.8
20°	782.9	787.5	775.2	755.9	742.2	731.2	730.4	722.1	712.0	691.1
22.5°	789.8	794.1	778.0	757.9	745.9	739.0	738.7	733.3	729.2	712.0
25°	817.7	818.8	797.3	768.3	751.1	745.0	744.7	744.5	746.2	732.7
27.5°	841.8	841.5	823.1	795.8	769.1	756.5	756.2	759.1	764.6	753.4
30°	877.1	873.9	852.1	823.7	799.3	779.8	778.0	775.5	779.8	770.9
32.5°	952.0	942.0	906.7	856.1	824.3	809.3	807.0	791.0	792.7	787.2
35°	1059.4	1046.2	999.1	917.6	855.3	834.0	832.9	812.5	809.1	804.2
37.5°	1187.2	1170.8	1116.0	1006.6	908.7	862.7	861.0	842.6	828.6	823.4
40°	1315.5	1294.8	1249.5	1115.1	987.3	910.7	905.2	877.4	861.3	852.7
42.5°	1440.1	1422.9	1384.1	1236.8	1084.4	980.7	968.7	921.0	909.0	900.9
45°	1550.3	1534.8	1506.4	1366.9	1198.1	1076.1	1064.3	986.5	982.7	982.7
47.5°	1639.9	1636.5	1606.3	1499.5	1332.1	1184.6	1164.2	1077.5	1087.5	1103.0
50°	1739.3	1729.8	1697.6	1630.2	1489.8	1308.9	1292.2	1189.2	1226.8	1269.3
52.5°	1830.6	1835.7	1799.8	1766.2	1667.8	1447.6	1418.3	1321.0	1402.2	1472.5
55°	1924.4	1924.7	1914.7	1910.1	1854.4	1600.9	1568.7	1479.4	1608.6	1695.9
57.5°	2012.6	2013.2	2028.1	2068.6	2070.9	1777.7	1741.3	1674.1	1838.0	1927.0
60°	2091.2	2095.3	2136.0	2230.8	2261.2	1980.4	1946.0	1904.1	2075.2	2164.7
62.5°	2117.7	2132.3	2223.0	2357.7	2449.3	2229.1	2195.2	2170.2	2324.4	2407.6
65°	2072.9	2106.5	2281.9	2462.5	2642.8	2524.5	2490.9	2463.6	2583.3	2661.7
67.5°	1962.9	2006.3	2278.4	2572.4	2877.6	2879.9	2848.6	2784.6	2861.0	2891.1
70°	1673.2	1738.1	2077.8	2613.5	3147.2	3366.0	3335.8	3171.0	3138.0	2992.2
72.5°	1078.1	1165.3	1530.0	2275.6	3207.2	3823.3	3821.6	3519.9	3225.6	2795.8
75°	393.3	446.7	710.9	1428.3	2692.1	3800.1	3811.3	3460.1	2944.5	2159.6
77.5°	143.3	156.8	232.0	548.9	1655.7	3049.0	3072.3	2766.2	2095.8	1083.8
80°	75.2	82.7	118.9	213.0	709.4	1810.7	1847.2	1643.9	985.0	326.4
82.5°	41.6	45.1	66.6	115.7	319.5	774.3	796.1	649.4	346.5	138.4
85°	22.4	23.8	31.3	63.2	156.2	268.4	274.5	194.1	138.1	81.2
87.5°	6.6	8.0	10.3	20.1	61.2	60.3	61.7	38.5	54.5	41.1
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°
549.8	0°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
554.1	2.5°	552.4	551.5	548.4	546.9	545.2	544.9	546.4	546.6	546.9	547.2
560.4	5°	557.6	554.7	551.8	550.1	550.7	550.9	553.8	555.8	557.3	558.4
572.2	7.5°	567.6	565.3	560.4	560.1	561.0	563.6	567.3	571.9	574.5	576.5
587.4	10°	582.5	578.2	572.5	573.3	575.1	578.8	586.5	590.3	594.6	598.3
606.1	12.5°	597.7	594.0	587.4	588.0	590.9	597.5	604.9	609.5	612.4	615.3
626.2	15°	617.6	611.0	603.8	603.8	608.9	616.1	619.6	623.3	625.0	628.2
647.7	17.5°	637.9	629.3	619.9	619.3	625.6	629.0	631.0	631.6	632.2	635.6
668.7	20°	658.3	648.8	635.4	634.2	635.6	635.1	634.8	634.2	635.1	639.4
690.2	22.5°	678.4	667.5	648.8	643.7	639.7	634.2	633.9	633.6	634.2	638.5
713.4	25°	702.0	688.8	663.8	648.3	634.8	627.3	628.2	628.5	629.0	632.5
737.6	27.5°	727.5	712.9	677.6	646.8	622.4	617.3	615.8	616.7	618.7	624.2
761.7	30°	753.1	735.8	690.2	641.1	606.9	599.8	595.2	597.2	603.5	608.9
782.6	32.5°	776.3	759.1	700.2	628.5	587.1	575.9	569.9	572.5	578.8	580.8
805.9	35°	803.6	784.1	704.5	608.4	565.6	548.4	540.3	536.6	539.8	537.7
833.2	37.5°	834.0	813.6	704.0	582.0	540.3	520.5	509.3	495.2	488.6	481.8
873.4	40°	879.1	849.8	697.1	550.1	509.0	490.9	470.8	447.0	432.1	418.6
938.2	42.5°	940.5	900.1	684.4	515.1	473.7	456.8	429.5	401.7	378.1	355.7
1036.7	45°	1032.1	965.8	668.7	477.7	435.5	418.9	389.3	358.0	331.3	302.6
1176.5	47.5°	1164.2	1054.2	653.7	435.2	395.3	380.1	353.4	324.4	292.8	265.0
1378.7	50°	1345.6	1181.1	639.9	393.9	355.7	344.2	323.0	293.4	261.5	239.2
1615.5	52.5°	1576.5	1353.7	634.2	354.0	318.7	314.4	297.4	269.9	239.7	220.8
1891.7	55°	1841.5	1560.1	634.2	315.8	286.2	287.7	275.9	250.4	224.2	207.3
2176.5	57.5°	2111.9	1769.1	622.7	280.5	258.7	264.7	257.2	234.8	211.3	193.8
2476.0	60°	2361.1	1944.2	576.2	248.3	234.3	243.7	238.9	219.6	190.9	176.3
2726.3	62.5°	2552.6	2043.0	486.6	222.8	214.2	225.1	222.5	199.5	187.2	181.2
2931.9	65°	2648.5	2026.9	372.1	200.1	197.2	214.2	208.7	207.9	198.1	191.2
2998.8	67.5°	2589.7	1888.6	269.9	183.5	187.5	204.1	225.1	228.5	210.4	197.0
2810.4	70°	2331.5	1638.2	201.0	167.7	175.1	204.4	256.7	239.2	206.4	190.6
2254.0	72.5°	1773.7	1221.6	155.9	151.0	159.1	205.9	270.7	234.3	194.9	210.7
1404.2	75°	1014.3	670.7	125.2	130.6	139.0	192.4	263.6	221.6	186.0	193.5
556.4	77.5°	386.7	257.8	103.4	110.5	111.7	168.0	252.1	220.8	177.1	172.8
166.8	80°	134.1	100.8	85.6	87.9	86.4	149.3	241.7	192.1	145.0	129.8
68.9	82.5°	54.8	50.2	67.8	64.9	61.4	116.0	195.2	157.0	118.6	104.8
33.3	85°	23.8	31.9	44.8	39.3	35.6	80.4	156.5	132.9	100.2	86.4
10.9	87.5°	4.9	12.1	18.9	17.8	18.4	53.7	111.1	94.5	70.9	53.1
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°  
549.8  
548.4  
559.0  
577.1  
597.5  
616.4  
629.3  
636.8  
641.1  
641.4  
637.1  
629.6  
615.0  
588.0  
544.1  
486.1  
419.5  
353.7  
299.2  
261.8  
237.7  
219.3  
205.6  
190.9  
174.0  
179.2  
188.9  
194.7  
188.1  
*209.0*  
193.5  
157.6  
125.5  
103.6  
86.1  
41.6  
0.0

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