

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: P945181

Luminaire Tested: **GALN-SB1A-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945181  
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-SB1A-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

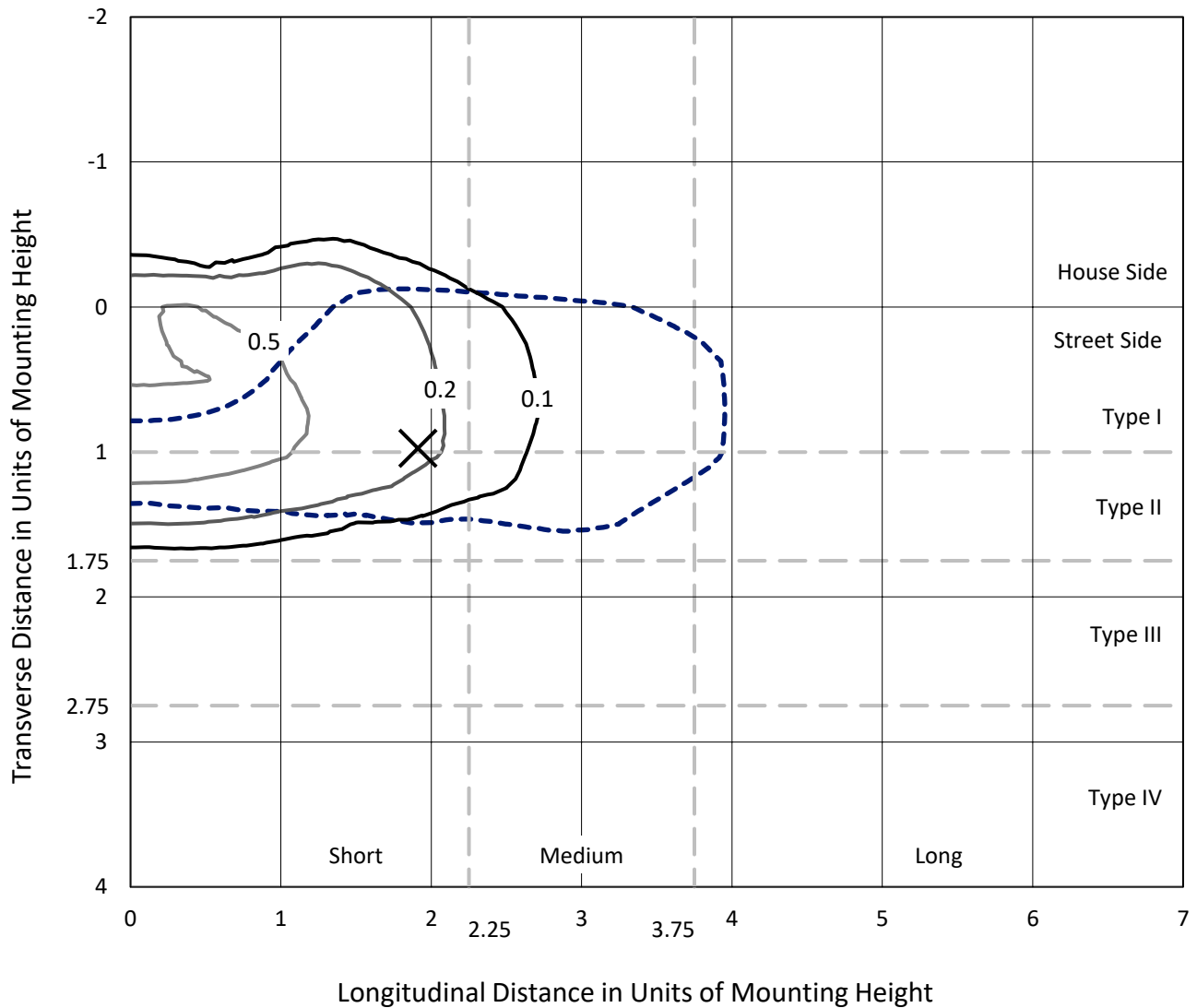
Lumens per Lamp: N/A  
Luminaire Lumens: 2386 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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 CATALOG NUMBER: GALN-SB1A-950-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

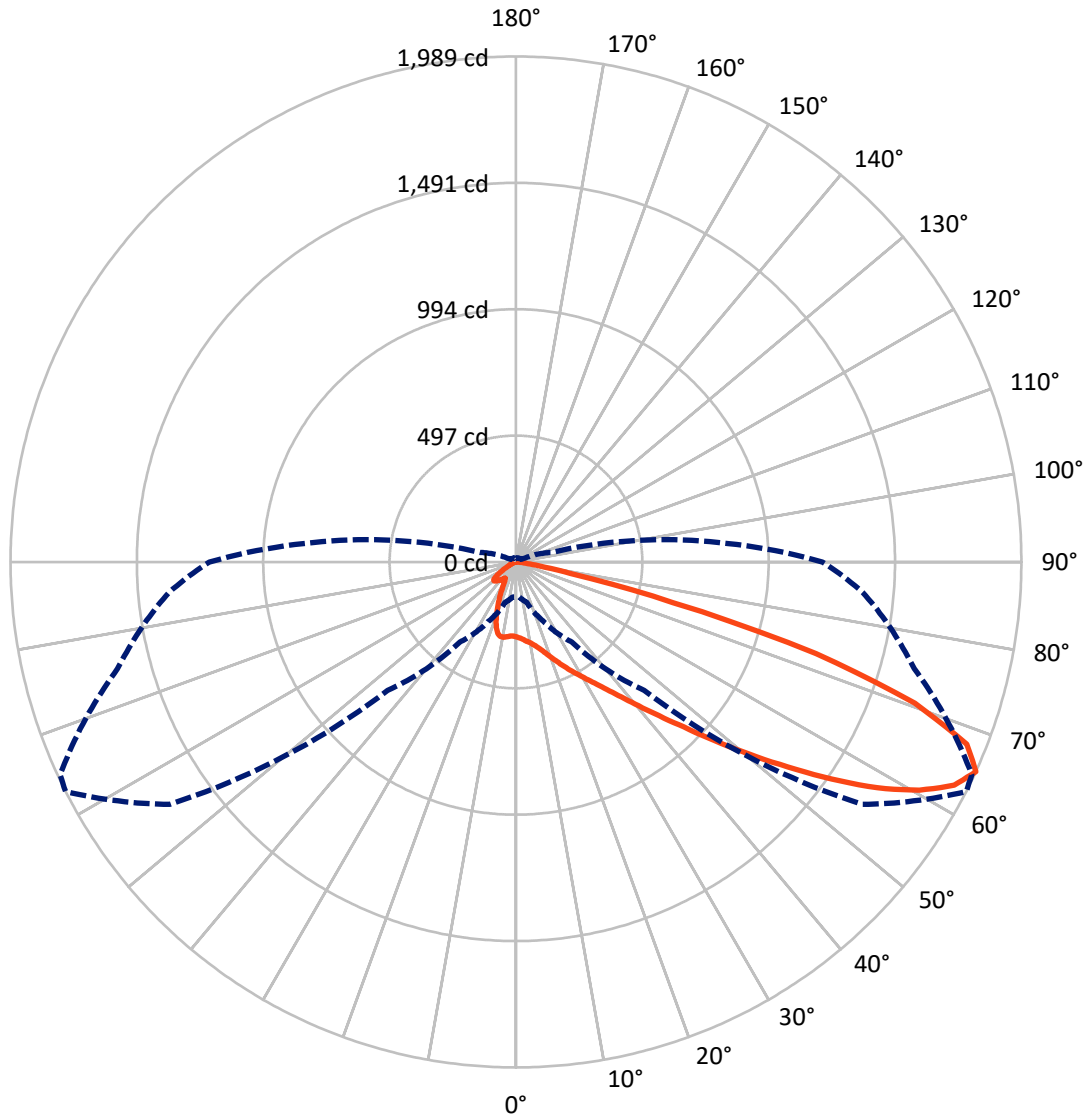
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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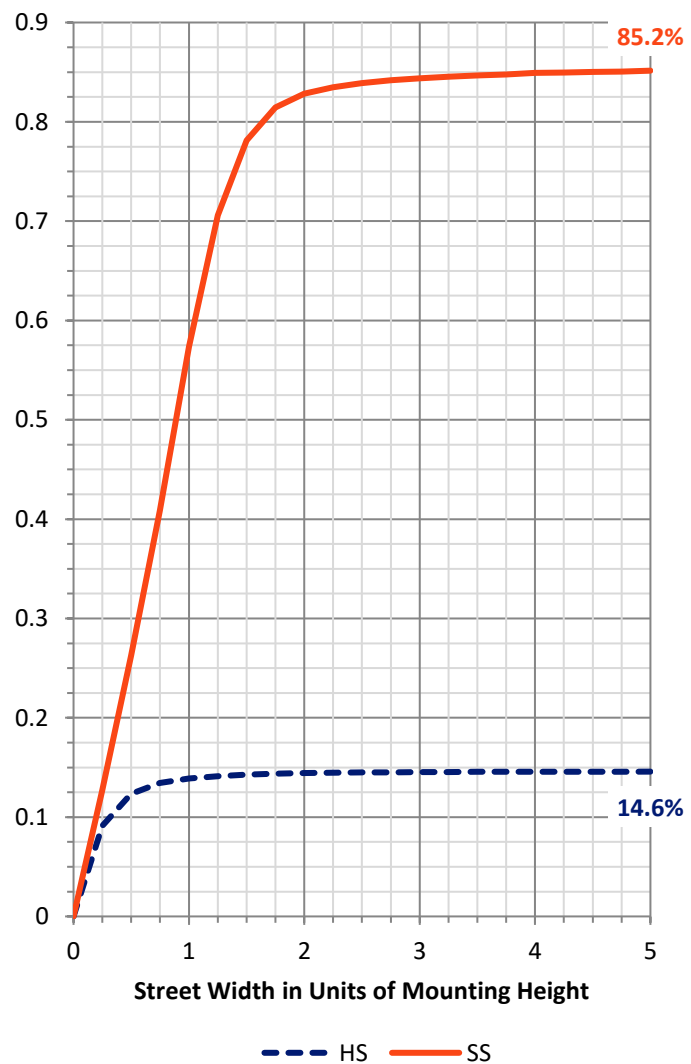
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	350.7	0.0	350.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	2035.3	0.0	2035.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	2386.0	0.0	2386.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.7	1.2
10°-20°	77.0	3.2
20°-30°	134.0	5.6
30°-40°	241.6	10.1
40°-50°	479.2	20.1
50°-60°	652.7	27.4
60°-70°	521.0	21.8
70°-80°	235.8	9.9
80°-90°	16.9	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°	2386.0	100.0
0°-180°	2386.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945181

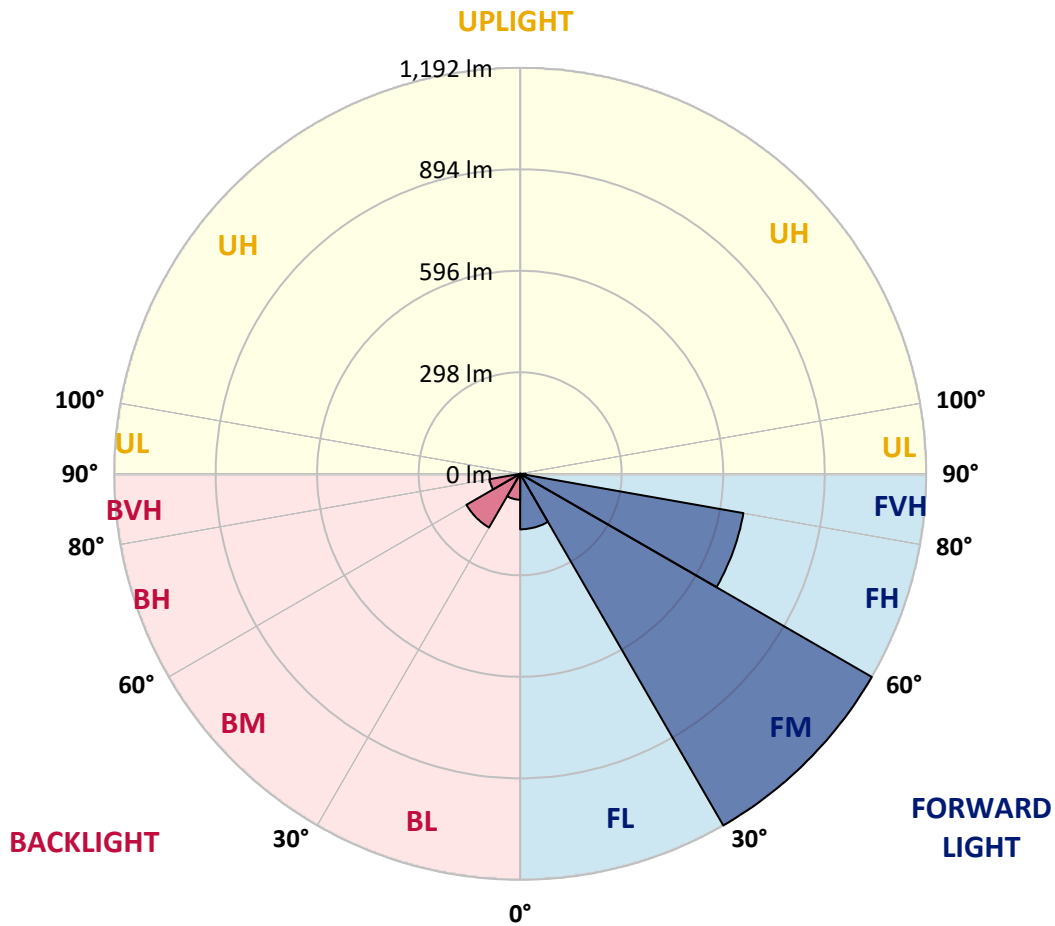
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.9	6.8			
FM (30°-60°)	1191.5	49.9			
FH (60°-80°)	665.2	27.9			G1/1800
FVH (80°-90°)	15.7	0.7			G1/100
BL (0°-30°)	75.9	3.2	B0/110		
BM (30°-60°)	182.0	7.6	B0/220		
BH (60°-80°)	91.6	3.8	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short



REPORT NUMBER: P945181

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5
2.5°	301.4	300.6	301.7	301.2	300.9	300.2	299.9	299.6	298.9	298.4
5°	302.2	301.7	302.8	303.8	304.8	305.8	306.3	307.0	306.3	305.0
7.5°	295.3	295.0	297.4	300.4	304.8	308.6	312.7	315.0	315.2	314.7
10°	294.8	294.0	296.4	300.1	305.8	312.5	319.8	324.7	325.3	327.5
12.5°	302.5	301.7	305.1	309.1	315.0	322.1	330.9	337.8	338.8	341.8
15°	315.5	314.3	318.3	323.4	330.9	339.0	348.3	354.6	355.4	359.0
17.5°	330.6	329.4	334.0	339.5	347.7	358.7	369.5	376.4	377.4	379.7
20°	350.0	348.5	352.1	357.0	365.7	378.8	391.8	401.7	401.5	401.5
22.5°	372.4	370.1	373.3	377.2	385.4	401.3	418.6	430.2	430.2	425.6
25°	396.6	394.3	397.7	401.3	408.6	426.6	446.8	461.2	461.9	454.0
27.5°	426.8	423.8	426.5	430.7	435.0	453.4	477.3	494.1	494.4	482.3
30°	484.9	476.5	468.3	463.7	465.7	483.9	509.5	528.1	529.7	513.0
32.5°	591.3	589.6	560.7	523.0	503.3	516.7	545.5	567.8	568.8	547.3
35°	756.5	754.6	708.1	636.2	572.0	560.7	589.1	615.5	614.9	590.6
37.5°	953.9	952.0	890.8	794.6	690.7	627.2	645.4	673.2	677.3	645.4
40°	1122.4	1115.7	1077.0	984.2	848.3	737.5	725.5	743.9	748.2	710.4
42.5°	1250.1	1244.4	1224.7	1166.7	1039.0	900.7	819.9	827.0	831.7	786.4
45°	1316.3	1315.0	1322.9	1317.4	1233.4	1100.9	954.8	925.5	927.3	870.6
47.5°	1325.6	1325.0	1360.9	1411.8	1400.5	1326.8	1128.0	1048.2	1041.8	965.7
50°	1270.5	1269.2	1338.1	1433.5	1512.1	1516.5	1324.7	1186.6	1172.5	1064.0
52.5°	1094.4	1094.0	1207.3	1366.0	1551.3	1682.7	1519.0	1338.6	1315.0	1168.1
55°	842.1	848.1	978.0	1165.6	1479.8	1762.6	1693.5	1507.4	1471.1	1272.8
57.5°	596.5	605.4	733.7	900.8	1257.8	1715.3	1811.5	1676.4	1637.4	1377.2
60°	320.4	328.3	456.8	656.3	935.8	1539.0	1873.7	1823.2	1786.2	1476.3
62.5°	190.9	193.5	246.7	423.7	632.9	1175.8	1847.3	1935.0	1904.6	1559.5
65°	137.1	137.6	164.3	258.7	384.3	714.4	1662.0	1988.5	1979.1	1622.3
67.5°	115.4	115.1	126.2	171.9	261.8	357.8	1273.8	1912.8	1952.5	1662.0
70°	99.0	99.5	112.6	125.9	196.8	202.6	633.3	1665.4	1750.1	1672.5
72.5°	73.7	75.3	87.5	114.7	148.6	139.4	218.6	1234.9	1388.0	1575.8
75°	52.0	52.9	61.6	96.5	110.8	101.4	111.6	638.4	834.7	1208.1
77.5°	40.1	41.5	46.6	67.5	109.2	71.2	68.3	220.9	339.5	729.8
80°	21.7	24.3	33.6	48.8	76.7	50.4	33.8	88.0	115.1	341.3
82.5°	11.2	12.5	23.5	35.1	43.7	44.0	16.7	36.6	47.4	105.4
85°	4.4	5.4	15.8	19.4	22.5	21.7	7.6	14.8	17.1	29.2
87.5°	1.0	1.6	5.7	4.4	4.3	4.6	1.8	3.4	3.3	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945181  
 CATALOG NUMBER: GALN-SB1A-950-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
294.5	0°	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5	294.5
296.4	2.5°	296.3	295.6	293.8	291.9	289.6	288.2	287.4	287.3	286.1	285.3
303.0	5°	301.2	300.6	297.1	293.0	288.6	285.1	281.8	278.9	274.6	273.8
312.5	7.5°	311.1	309.3	303.7	298.1	289.7	279.7	267.6	253.6	241.1	237.4
325.2	10°	323.2	320.7	313.7	303.8	285.3	258.0	228.7	201.4	179.7	173.7
340.1	12.5°	337.0	334.9	325.5	307.3	266.7	217.3	172.4	138.5	117.5	112.3
356.0	15°	353.4	350.3	337.3	302.0	233.6	165.1	118.3	98.3	90.8	89.8
374.3	17.5°	370.8	365.7	347.8	283.2	188.9	117.4	91.4	85.7	82.4	81.4
392.6	20°	386.7	380.2	354.1	254.6	141.2	91.4	81.9	78.1	75.2	74.0
411.0	22.5°	402.6	393.3	354.1	215.7	105.9	81.1	75.2	71.7	68.3	66.8
430.7	25°	419.2	406.8	347.8	172.4	85.2	74.4	68.8	65.0	62.0	60.2
449.4	27.5°	435.3	418.1	333.5	131.3	75.8	68.4	62.9	59.3	56.5	55.2
469.8	30°	450.6	429.2	313.5	99.6	69.8	62.7	57.5	54.3	51.5	50.2
496.2	32.5°	471.3	443.4	292.2	81.7	64.5	57.3	52.5	49.6	47.1	46.1
530.5	35°	500.0	464.2	273.8	80.3	60.1	52.9	48.1	45.3	42.8	42.0
574.8	37.5°	540.7	497.9	264.1	90.1	56.5	48.9	44.5	41.5	39.2	38.6
631.1	40°	590.9	543.5	269.4	100.0	54.0	45.5	41.2	38.2	36.3	35.5
695.8	42.5°	650.5	599.8	298.4	107.5	52.4	42.5	38.1	34.8	33.5	33.2
769.2	45°	719.0	661.7	342.9	115.6	49.7	39.7	35.0	32.5	31.5	31.4
849.0	47.5°	796.8	729.6	394.4	125.6	47.1	37.1	32.5	30.9	30.0	29.7
932.2	50°	873.9	798.1	447.5	131.2	45.0	34.6	30.5	29.2	28.6	28.4
1020.2	52.5°	954.7	868.5	490.3	125.9	43.2	32.7	28.9	27.9	27.2	27.1
1101.3	55°	1031.7	925.5	497.7	106.9	39.6	30.7	27.1	26.6	25.8	25.8
1183.5	57.5°	1098.0	954.0	445.5	78.5	35.9	27.7	25.3	24.8	24.1	24.0
1257.7	60°	1158.9	945.8	343.9	52.9	32.0	24.8	23.0	22.7	22.0	21.2
1322.2	62.5°	1193.2	909.7	235.2	34.5	28.1	21.7	20.4	20.2	18.7	17.1
1370.0	65°	1206.1	835.5	146.7	25.1	23.5	18.5	17.6	17.2	15.1	13.3
1397.0	67.5°	1194.8	713.4	74.0	19.9	18.5	15.4	14.4	14.4	13.0	11.3
1395.4	70°	1149.5	534.8	31.2	15.9	14.3	11.8	11.8	12.5	11.0	9.2
1323.0	72.5°	1051.2	359.8	16.6	12.1	10.7	8.4	9.7	10.2	8.7	6.9
1082.9	75°	835.7	219.5	11.5	9.0	6.7	5.9	7.4	7.7	5.9	4.6
742.4	77.5°	571.6	126.1	7.7	5.7	4.3	3.4	5.1	4.8	3.1	2.1
286.3	80°	251.0	52.5	4.4	2.6	1.6	1.3	1.8	1.3	1.0	0.7
39.2	82.5°	29.4	12.3	1.6	1.0	0.7	0.3	0.2	0.0	0.0	0.0
12.0	85°	6.1	1.5	0.8	0.3	0.2	0.0	0.0	0.0	0.0	0.0
2.1	87.5°	1.1	0.3	0.2	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°  
294.5  
286.1  
273.5  
235.5  
171.4  
110.8  
88.8  
80.9  
73.4  
66.0  
59.6  
55.2  
50.4  
46.1  
42.0  
38.4  
35.3  
33.2  
31.2  
29.7  
28.4  
27.1  
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