

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: P939037

Luminaire Tested: **GALN-SB1B-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4085 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

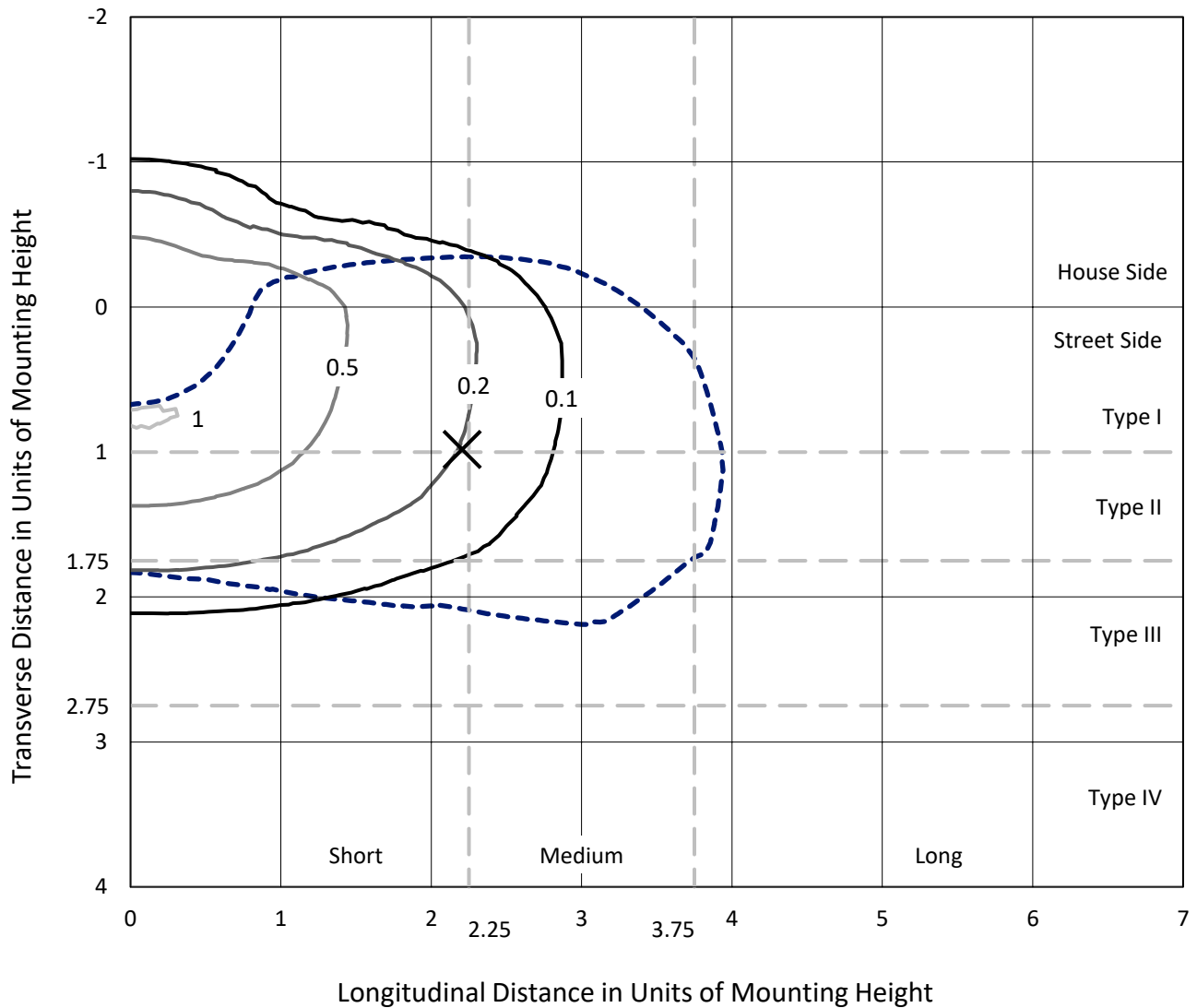
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939037
 CATALOG NUMBER: GALN-SB1B-940-U-T3

Iso-Footcandle Lines of Horizontal Illumination

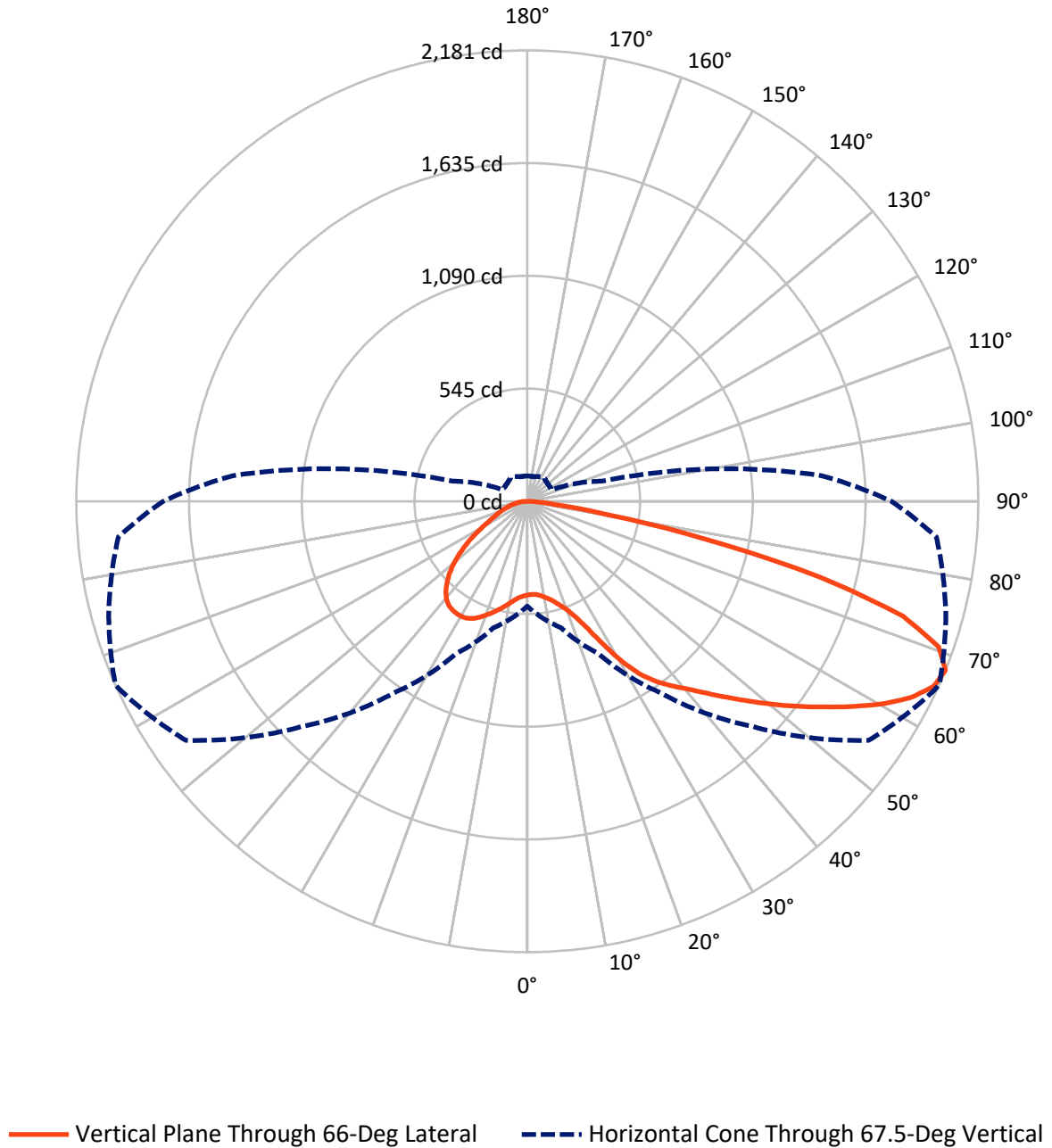
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

REPORT NUMBER: P939037
CATALOG NUMBER: GALN-SB1B-940-U-T3

Luminous Intensity Polar Plot



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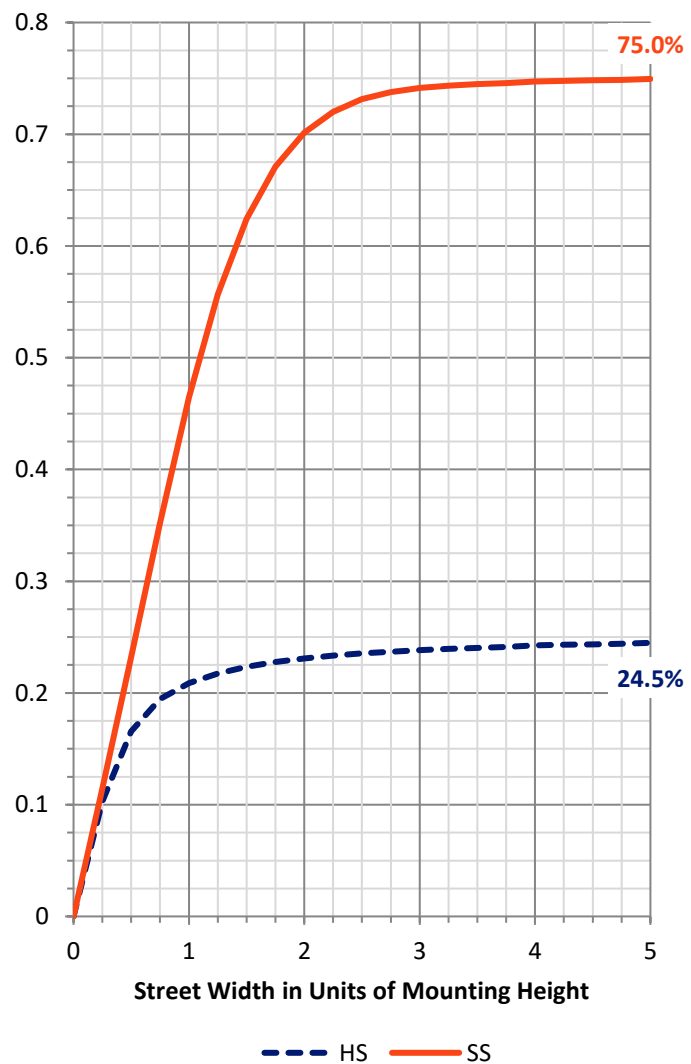
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.7	0.0	1015.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	3069.3	0.0	3069.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	4085.0	0.0	4085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.1
10°-20°	148.4	3.6
20°-30°	286.1	7.0
30°-40°	501.6	12.3
40°-50°	745.7	18.3
50°-60°	945.2	23.1
60°-70°	924.9	22.6
70°-80°	441.2	10.8
80°-90°	47.1	1.2
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°	4085.0	100.0
0°-180°	4085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939037

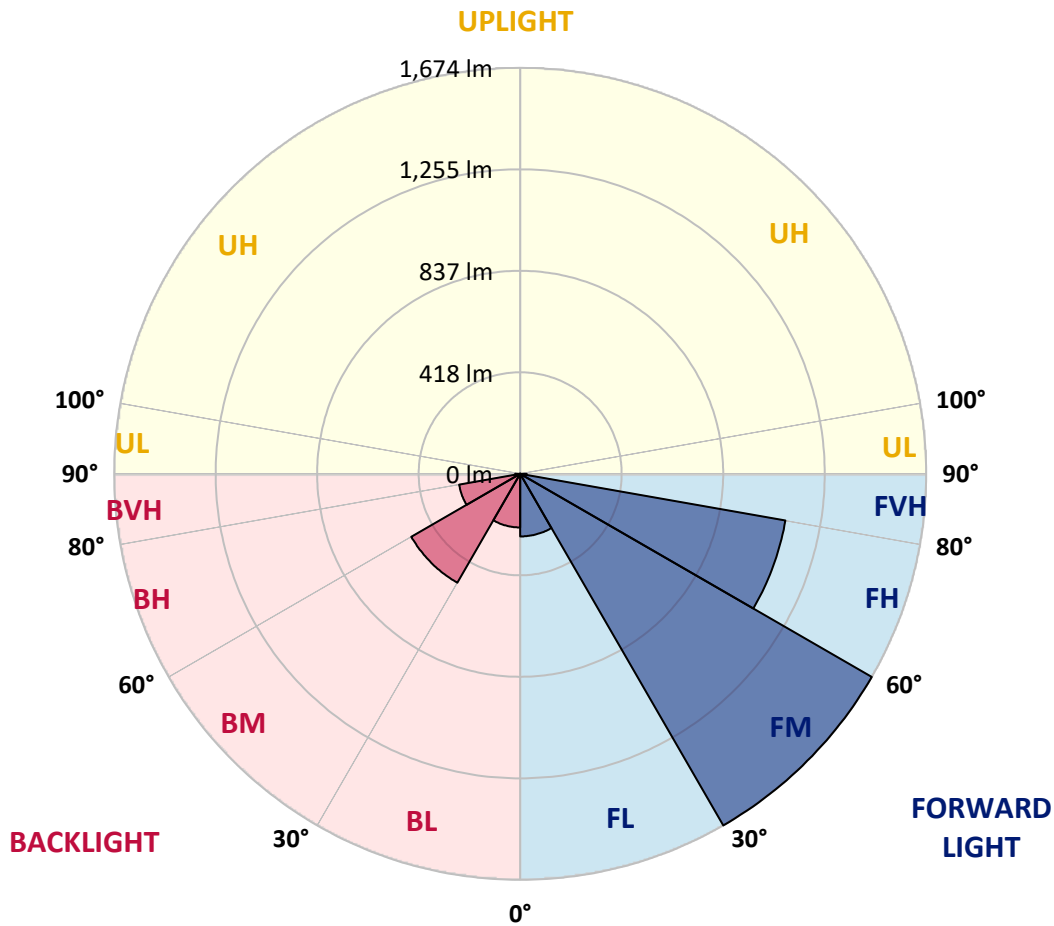
CATALOG NUMBER: GALN-SB1B-940-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.1	6.3			
FM (30°-60°)	1674.0	41.0			
FH (60°-80°)	1110.4	27.2			G1/1800
FVH (80°-90°)	26.7	0.7			G1/100
BL (0°-30°)	221.3	5.4	B1/500		
BM (30°-60°)	518.4	12.7	B1/1000		
BH (60°-80°)	255.6	6.3	B1/500		G1/500
BVH (80°-90°)	20.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



REPORT NUMBER: P939037
 CATALOG NUMBER: GALN-SB1B-940-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
2.5°	448.4	450.9	450.3	449.2	449.0	449.4	450.1	450.7	450.5	451.6
5°	447.1	449.6	449.4	449.4	450.3	452.0	453.1	454.2	453.1	454.4
7.5°	447.9	449.9	450.7	451.6	453.7	456.9	459.5	461.9	460.6	462.1
10°	458.9	460.4	461.2	461.2	462.7	466.4	469.0	473.3	472.2	474.5
12.5°	478.8	480.3	480.3	479.5	480.6	482.9	483.8	488.5	486.6	490.4
15°	503.3	506.3	503.9	502.4	502.9	505.2	505.0	508.7	506.7	510.0
17.5°	530.3	534.2	530.3	530.1	529.3	531.8	532.1	535.3	531.8	534.2
20°	562.3	567.7	564.5	565.5	563.6	564.7	565.8	570.5	565.1	566.8
22.5°	607.4	613.8	610.4	614.5	613.2	612.3	612.1	620.5	612.1	612.8
25°	673.1	680.8	674.8	680.4	680.4	683.2	686.4	697.1	683.2	679.1
27.5°	770.1	777.8	766.0	769.4	768.4	775.2	771.8	798.4	783.4	776.7
30°	886.8	900.6	878.3	877.4	876.3	887.3	892.2	909.8	894.6	887.9
32.5°	1013.0	1027.4	1000.8	993.1	989.0	995.7	991.6	1005.7	995.2	984.9
35°	1146.5	1160.7	1135.4	1120.4	1104.0	1090.1	1075.5	1079.2	1069.3	1053.6
37.5°	1272.7	1298.7	1271.9	1255.8	1225.7	1198.5	1157.7	1140.7	1131.5	1117.1
40°	1401.3	1416.1	1395.7	1382.0	1349.4	1306.7	1241.4	1205.6	1193.1	1179.2
42.5°	1496.0	1510.1	1499.2	1489.7	1464.2	1414.6	1330.3	1285.4	1267.4	1251.7
45°	1571.1	1581.6	1574.7	1578.2	1567.2	1519.1	1422.3	1371.0	1352.4	1333.3
47.5°	1601.3	1612.5	1623.4	1643.8	1662.5	1627.1	1521.3	1463.8	1444.0	1424.5
50°	1597.9	1609.3	1641.0	1684.4	1742.4	1730.5	1625.6	1562.5	1544.3	1521.9
52.5°	1570.4	1583.3	1624.1	1696.2	1788.5	1808.0	1731.8	1664.4	1647.3	1620.7
55°	1498.3	1506.0	1567.2	1669.4	1799.4	1862.1	1835.9	1773.0	1755.9	1718.7
57.5°	1364.6	1375.8	1464.8	1597.0	1772.0	1898.8	1927.4	1887.2	1870.7	1817.3
60°	1190.1	1207.9	1309.9	1475.6	1702.0	1898.6	2010.4	1999.5	1985.7	1914.3
62.5°	992.7	1013.3	1111.3	1303.9	1579.7	1844.7	2062.4	2093.5	2086.4	2003.8
65°	762.4	776.5	874.2	1081.7	1389.3	1729.0	2068.4	2157.7	2158.9	2071.8
67.5°	507.6	548.4	633.2	811.7	1134.3	1540.0	2015.6	2168.2	2180.6	2095.2
70°	247.7	301.3	384.4	527.6	811.7	1250.0	1877.6	2081.9	2109.6	2027.0
72.5°	102.8	120.2	165.5	260.3	466.0	843.5	1600.3	1848.0	1899.2	1796.0
75°	69.3	75.1	94.7	133.5	212.3	415.9	1154.1	1377.9	1460.5	1356.5
77.5°	53.4	57.1	68.9	93.4	126.2	157.3	617.7	830.4	873.1	808.3
80°	42.1	44.9	51.5	68.0	89.5	84.1	210.6	376.2	400.9	336.3
82.5°	36.5	37.6	36.9	46.1	59.5	49.1	69.1	138.9	153.2	111.2
85°	26.4	29.4	30.7	28.5	31.6	24.9	28.3	49.1	54.1	48.3
87.5°	10.7	15.9	19.5	18.5	11.6	7.1	8.8	14.4	16.5	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939037
 CATALOG NUMBER: GALN-SB1B-940-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
453.1	0°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
453.3	2.5°	453.5	455.0	456.1	457.4	458.2	459.5	462.1	463.6	463.8	464.9
456.7	5°	457.6	459.7	462.1	465.5	469.4	472.6	477.5	481.0	482.3	483.3
465.1	7.5°	466.4	469.4	473.7	479.7	485.3	489.6	495.6	499.7	503.7	505.2
478.4	10°	479.5	483.8	490.0	498.2	504.2	509.7	516.0	519.4	523.5	525.2
494.3	12.5°	495.8	500.3	508.5	519.8	525.4	529.3	531.4	530.6	531.4	532.9
513.4	15°	514.5	519.4	528.6	540.9	544.7	541.3	536.6	532.3	531.6	532.1
536.6	17.5°	536.6	540.2	551.0	561.3	558.5	544.3	534.0	527.1	523.7	522.6
566.2	20°	567.5	567.5	576.3	582.7	564.0	540.0	523.9	512.7	505.7	502.7
606.5	22.5°	605.0	601.6	607.2	602.7	563.0	528.0	505.7	486.3	475.6	471.3
663.0	25°	652.7	648.6	647.1	619.2	555.2	508.9	472.6	449.2	439.8	437.4
744.3	27.5°	724.6	714.3	694.8	628.2	541.1	478.8	434.0	412.3	406.9	407.2
848.9	30°	820.3	799.7	751.8	629.7	517.9	436.3	394.5	379.0	376.5	377.5
936.6	32.5°	909.0	889.4	810.2	622.9	482.3	394.7	359.1	348.8	344.9	346.2
1003.6	35°	978.5	973.1	864.3	613.2	438.5	355.6	327.3	318.5	311.0	309.3
1066.7	37.5°	1044.2	1042.0	904.9	599.7	395.1	328.0	301.8	290.2	279.2	273.2
1136.5	40°	1116.3	1114.1	931.5	578.9	356.7	303.9	278.8	263.6	250.0	239.1
1215.4	42.5°	1197.4	1184.7	944.2	549.0	324.1	283.5	260.1	239.5	221.7	211.6
1304.7	45°	1286.1	1257.5	943.9	511.0	296.6	264.9	240.2	211.0	194.5	185.0
1396.4	47.5°	1380.1	1327.0	932.3	469.0	270.0	244.2	209.3	186.9	176.0	170.2
1496.0	50°	1477.1	1392.1	912.6	420.7	242.7	220.9	189.9	174.7	166.3	161.0
1594.7	52.5°	1568.3	1451.1	888.8	365.9	215.1	198.1	181.4	169.6	160.8	154.7
1690.4	55°	1653.1	1502.0	855.1	309.9	192.5	182.9	177.3	167.4	157.3	150.2
1787.6	57.5°	1728.4	1535.0	796.9	257.3	176.4	172.3	173.0	163.8	152.2	146.2
1883.4	60°	1791.1	1559.3	710.8	208.6	163.3	162.0	166.3	156.9	143.4	136.5
1964.3	62.5°	1828.6	1558.8	605.3	170.8	152.2	152.6	157.5	148.3	134.6	128.1
2006.6	65°	1825.4	1520.6	489.4	146.2	141.4	141.9	148.3	138.9	127.3	123.4
1985.3	67.5°	1760.8	1427.5	375.4	130.1	129.6	131.6	139.1	132.4	122.8	122.3
1858.7	70°	1585.9	1234.1	270.4	117.2	117.4	120.2	130.1	128.3	120.4	121.3
1562.7	72.5°	1271.7	940.9	181.6	103.7	103.9	108.4	121.5	125.1	118.0	129.4
1108.8	75°	846.9	586.8	116.8	89.3	89.5	95.3	114.0	118.9	111.6	129.0
576.9	77.5°	406.9	263.8	84.6	75.1	75.1	80.5	98.5	106.5	95.1	100.2
185.4	80°	140.6	99.2	66.5	60.5	59.2	62.9	83.1	92.3	82.0	75.5
60.5	82.5°	55.4	51.5	53.4	47.0	42.7	45.1	64.6	76.2	60.3	54.5
34.1	85°	31.8	33.5	37.8	31.1	24.7	27.7	47.4	54.7	45.5	40.1
11.2	87.5°	8.6	11.8	17.4	16.1	11.2	11.8	22.5	30.3	26.2	20.2
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>
453.1
464.7
483.1
505.4
526.1
533.4
533.6
524.1
502.0
470.7
437.8
407.8
381.2
347.9
310.6
273.4
240.2
212.3
184.6
168.9
159.0
152.2
147.4
142.3
133.5
126.2
123.2
<i>123.0</i>
121.1
131.1
130.1
91.9
70.8
54.3
41.0
20.8
0.0

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