

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: P939047

Luminaire Tested: **GALN-SB1B-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939047
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-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3921 lumens
Efficiency: N/A
Efficacy: 98.5 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

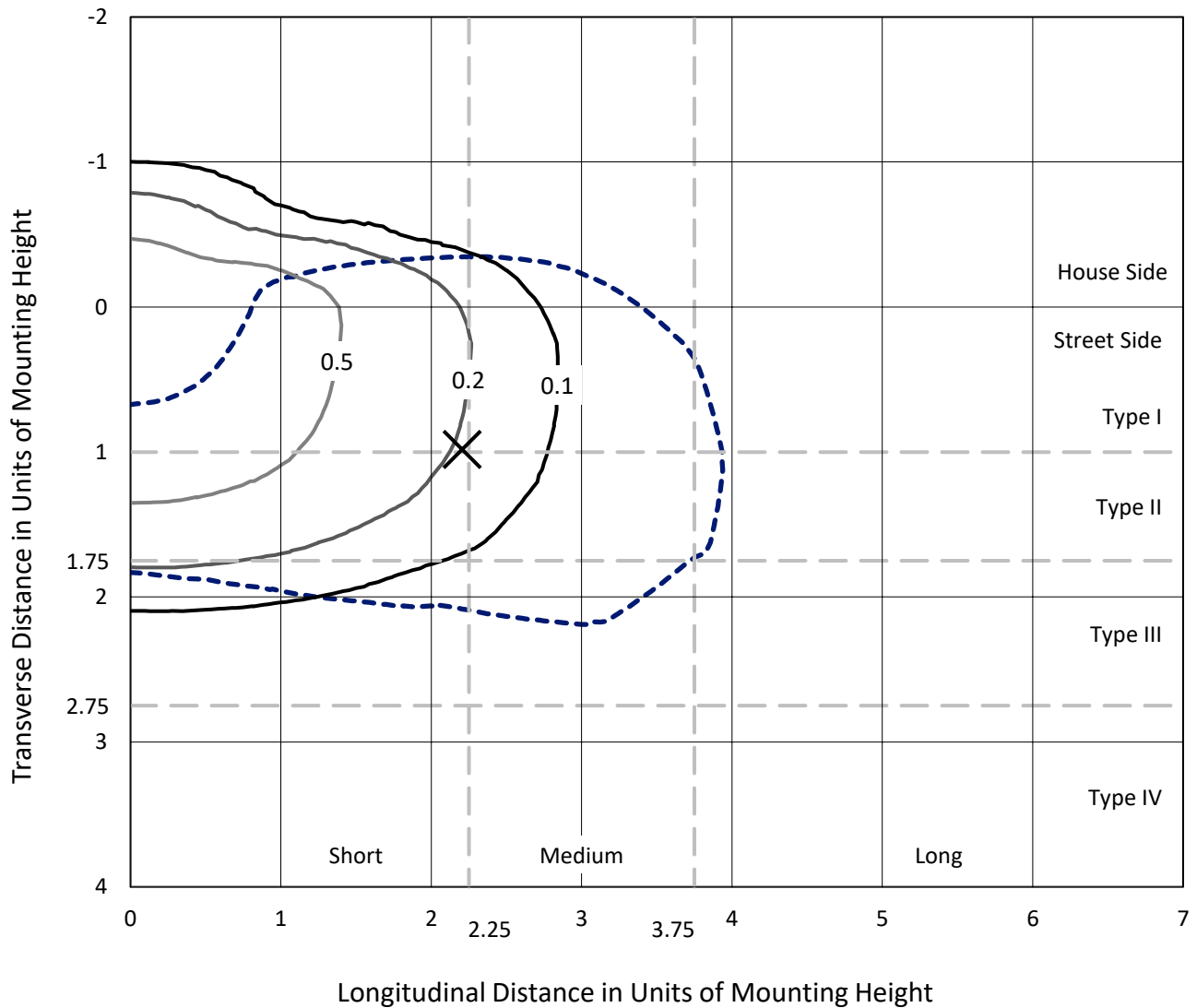
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

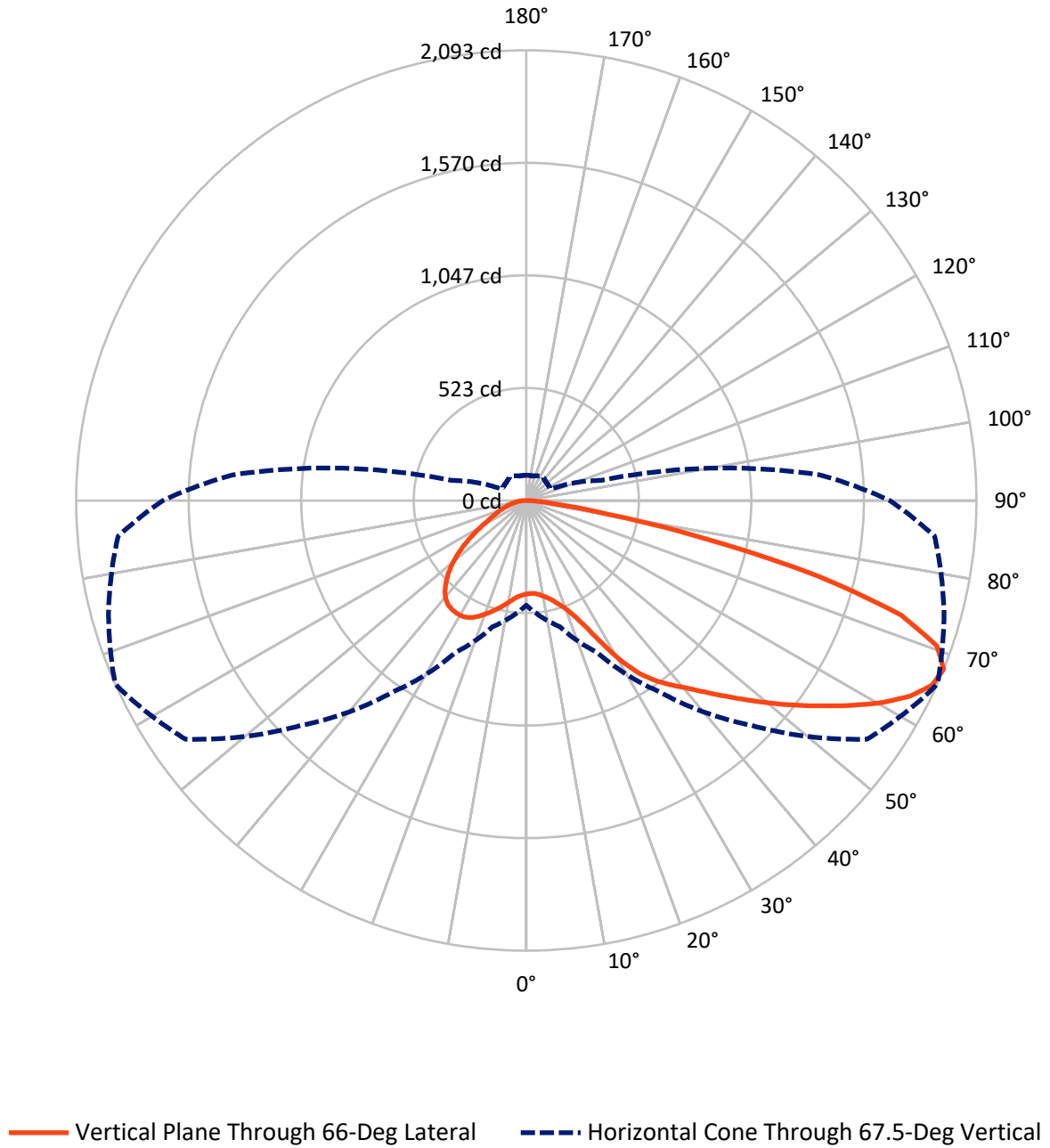
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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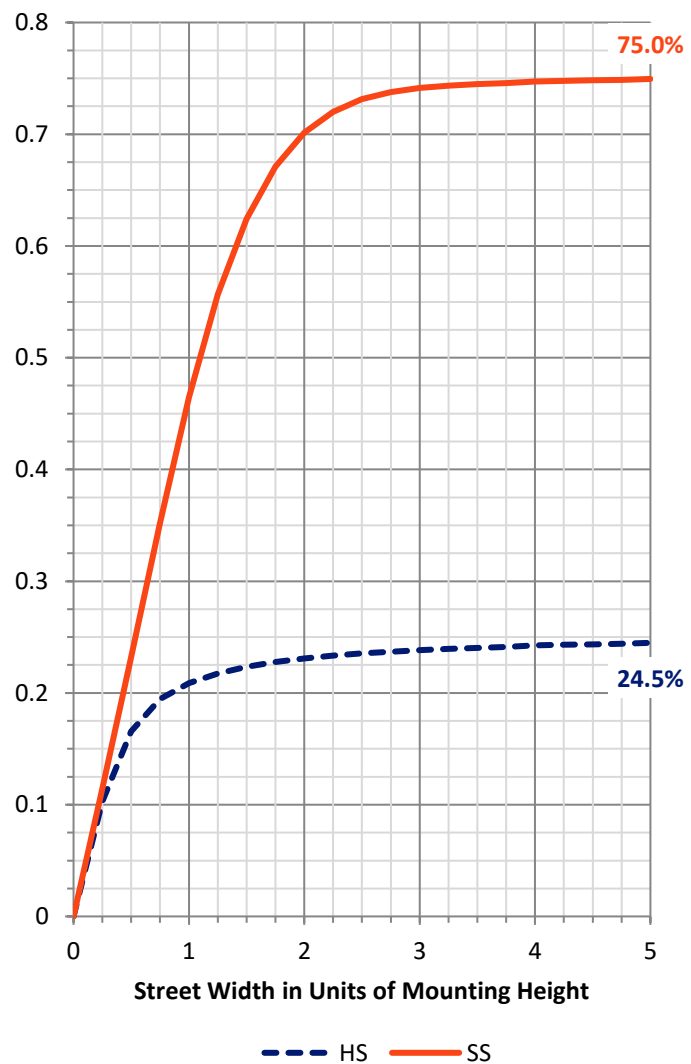
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.9	0.0	974.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	2946.1	0.0	2946.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	3921.0	0.0	3921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.1
10°-20°	142.5	3.6
20°-30°	274.6	7.0
30°-40°	481.4	12.3
40°-50°	715.7	18.3
50°-60°	907.3	23.1
60°-70°	887.7	22.6
70°-80°	423.5	10.8
80°-90°	45.3	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°	3921.0	100.0
0°-180°	3921.0	100.0

Coefficient of Utilization



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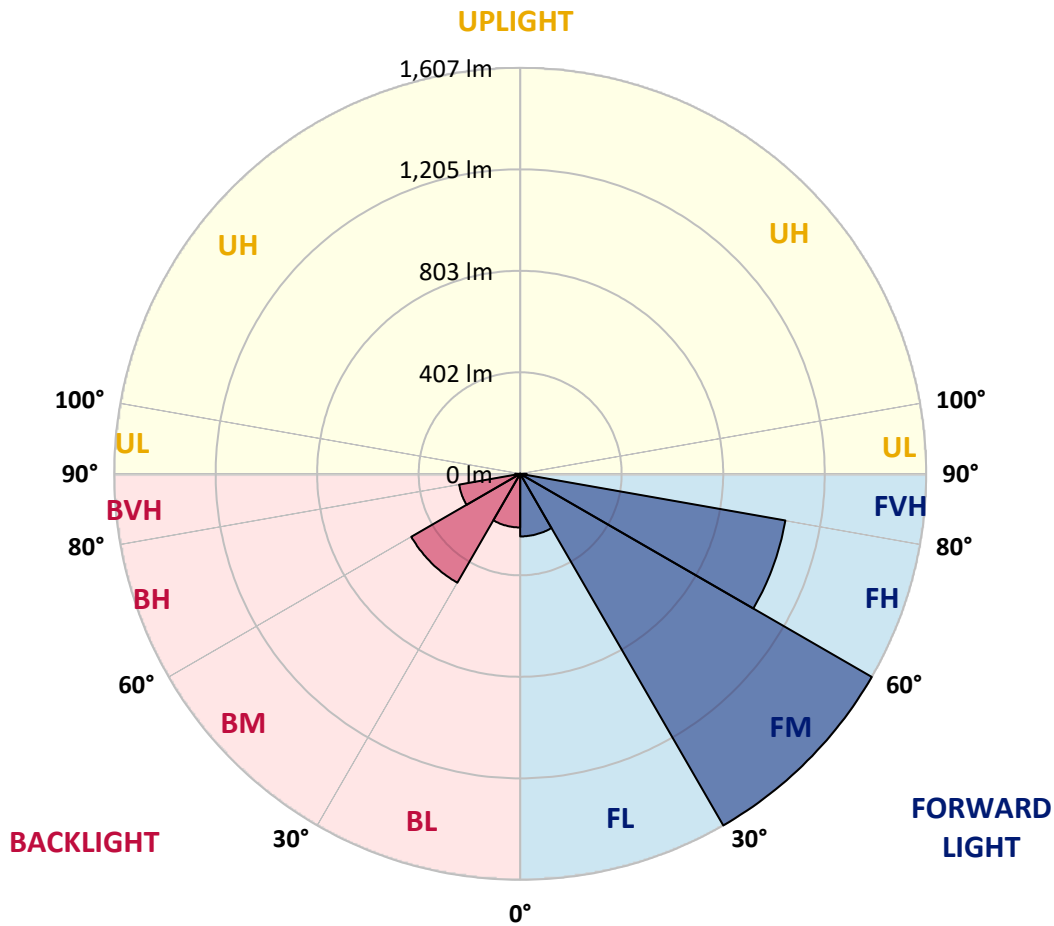
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.8	6.3			
FM (30°-60°)	1606.8	41.0			
FH (60°-80°)	1065.8	27.2			G1/1800
FVH (80°-90°)	25.7	0.7			G1/100
BL (0°-30°)	212.4	5.4	B1/500		
BM (30°-60°)	497.6	12.7	B1/1000		
BH (60°-80°)	245.4	6.3	B1/500		G1/500
BVH (80°-90°)	19.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	430.4	432.8	432.2	431.2	431.0	431.4	432.0	432.6	432.4	433.4
5°	429.1	431.6	431.4	431.4	432.2	433.9	434.9	435.9	434.9	436.1
7.5°	429.9	431.8	432.6	433.4	435.5	438.6	441.1	443.3	442.1	443.5
10°	440.5	441.9	442.7	442.7	444.2	447.7	450.1	454.3	453.2	455.5
12.5°	459.6	461.1	461.1	460.2	461.3	463.5	464.4	468.9	467.0	470.7
15°	483.1	486.0	483.7	482.3	482.7	485.0	484.7	488.2	486.4	489.5
17.5°	509.1	512.8	509.1	508.8	508.0	510.5	510.7	513.8	510.5	512.8
20°	539.8	544.9	541.8	542.8	541.0	542.0	543.0	547.6	542.4	544.1
22.5°	583.0	589.2	585.9	589.8	588.6	587.8	587.5	595.6	587.5	588.2
25°	646.1	653.5	647.7	653.1	653.1	655.7	658.8	669.1	655.7	651.8
27.5°	739.2	746.6	735.3	738.6	737.5	744.1	740.8	766.4	751.9	745.6
30°	851.2	864.4	843.0	842.2	841.1	851.7	856.4	873.3	858.7	852.3
32.5°	972.4	986.2	960.6	953.2	949.3	955.7	951.8	965.4	955.3	945.4
35°	1100.5	1114.1	1089.8	1075.4	1059.7	1046.3	1032.3	1035.8	1026.4	1011.3
37.5°	1221.6	1246.6	1220.8	1205.4	1176.5	1150.4	1111.2	1095.0	1086.1	1072.3
40°	1345.1	1359.3	1339.7	1326.5	1295.2	1254.2	1191.6	1157.2	1145.2	1131.8
42.5°	1435.9	1449.5	1439.0	1429.9	1405.4	1357.8	1276.9	1233.8	1216.5	1201.5
45°	1508.0	1518.1	1511.5	1514.8	1504.3	1458.2	1365.2	1316.0	1298.1	1279.7
47.5°	1537.1	1547.8	1558.3	1577.8	1595.8	1561.8	1460.2	1405.0	1386.0	1367.3
50°	1533.8	1544.7	1575.2	1616.8	1672.4	1661.1	1560.3	1499.8	1482.3	1460.8
52.5°	1507.4	1519.7	1558.9	1628.1	1716.7	1735.4	1662.3	1597.6	1581.1	1555.6
55°	1438.2	1445.6	1504.3	1602.4	1727.2	1787.4	1762.2	1701.9	1685.4	1649.7
57.5°	1309.8	1320.5	1406.0	1532.9	1700.8	1822.6	1850.0	1811.5	1795.6	1744.3
60°	1142.3	1159.4	1257.3	1416.3	1633.7	1822.4	1929.7	1919.2	1906.0	1837.4
62.5°	952.8	972.6	1066.7	1251.5	1516.2	1770.7	1979.6	2009.4	2002.6	1923.3
65°	731.8	745.4	839.1	1038.3	1333.5	1659.6	1985.3	2071.0	2072.3	1988.6
67.5°	487.2	526.4	607.7	779.1	1088.8	1478.1	1934.7	2081.1	2093.1	2011.1
70°	237.7	289.2	369.0	506.4	779.1	1199.8	1802.2	1998.3	2024.9	1945.6
72.5°	98.7	115.4	158.8	249.9	447.3	809.6	1536.0	1773.8	1823.0	1723.9
75°	66.5	72.1	90.9	128.1	203.7	399.3	1107.7	1322.6	1401.9	1302.0
77.5°	51.3	54.8	66.1	89.6	121.1	151.0	592.9	797.1	838.1	775.8
80°	40.4	43.1	49.4	65.3	85.9	80.8	202.1	361.1	384.8	322.8
82.5°	35.0	36.1	35.4	44.3	57.1	47.2	66.3	133.3	147.1	106.7
85°	25.3	28.2	29.5	27.4	30.3	23.9	27.2	47.2	51.9	46.4
87.5°	10.3	15.2	18.7	17.7	11.1	6.8	8.4	13.8	15.9	17.3
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°
434.9	0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
435.1	2.5°	435.3	436.7	437.8	439.0	439.8	441.1	443.5	445.0	445.2	446.2
438.4	5°	439.2	441.3	443.5	446.8	450.5	453.6	458.4	461.7	462.9	463.9
446.4	7.5°	447.7	450.5	454.7	460.4	465.8	469.9	475.7	479.6	483.5	485.0
459.2	10°	460.2	464.4	470.3	478.2	483.9	489.3	495.3	498.5	502.5	504.1
474.4	12.5°	475.9	480.2	488.0	499.0	504.3	508.0	510.1	509.3	510.1	511.5
492.8	15°	493.8	498.5	507.4	519.1	522.9	519.6	515.0	510.9	510.3	510.7
515.0	17.5°	515.0	518.5	528.8	538.7	536.0	522.4	512.6	506.0	502.7	501.6
543.5	20°	544.7	544.7	553.1	559.3	541.4	518.3	502.9	492.2	485.4	482.5
582.2	22.5°	580.7	577.5	582.8	578.5	540.4	506.8	485.4	466.8	456.5	452.4
636.4	25°	626.5	622.6	621.1	594.3	533.0	488.5	453.6	431.2	422.1	419.9
714.4	27.5°	695.5	685.6	666.9	603.0	519.4	459.6	416.6	395.7	390.6	390.8
814.8	30°	787.4	767.6	721.7	604.4	497.1	418.8	378.6	363.8	361.3	362.4
899.0	32.5°	872.5	853.7	777.7	597.8	462.9	378.9	344.7	334.8	331.1	332.3
963.3	35°	939.2	934.1	829.6	588.6	420.9	341.4	314.2	305.7	298.5	296.9
1023.9	37.5°	1002.2	1000.2	868.5	575.6	379.3	314.8	289.7	278.5	268.0	262.3
1090.8	40°	1071.5	1069.4	894.1	555.6	342.4	291.7	267.6	253.0	240.0	229.5
1166.6	42.5°	1149.3	1137.2	906.2	527.0	311.1	272.1	249.7	229.9	212.8	203.1
1252.3	45°	1234.4	1207.0	906.0	490.5	284.7	254.2	230.5	202.5	186.6	177.6
1340.3	47.5°	1324.7	1273.8	894.9	450.1	259.2	234.4	200.9	179.4	168.9	163.4
1435.9	50°	1417.8	1336.2	876.0	403.8	233.0	212.0	182.3	167.7	159.7	154.5
1530.7	52.5°	1505.3	1392.8	853.1	351.2	206.4	190.1	174.1	162.7	154.3	148.5
1622.5	55°	1586.7	1441.7	820.8	297.5	184.8	175.5	170.2	160.7	151.0	144.2
1715.9	57.5°	1659.0	1473.4	764.9	247.0	169.3	165.4	166.0	157.2	146.1	140.3
1807.8	60°	1719.2	1496.7	682.3	200.2	156.8	155.5	159.7	150.6	137.6	131.0
1885.4	62.5°	1755.2	1496.3	581.0	164.0	146.1	146.5	151.2	142.4	129.2	123.0
1926.0	65°	1752.1	1459.6	469.7	140.3	135.8	136.2	142.4	133.3	122.2	118.5
1905.6	67.5°	1690.1	1370.2	360.3	124.8	124.4	126.3	133.5	127.1	117.8	117.4
1784.1	70°	1522.2	1184.6	259.6	112.5	112.7	115.4	124.8	123.2	115.6	116.4
1500.0	72.5°	1220.6	903.2	174.3	99.5	99.7	104.0	116.6	120.1	113.3	124.2
1064.3	75°	812.9	563.2	112.1	85.7	85.9	91.5	109.4	114.1	107.1	123.8
553.8	77.5°	390.6	253.2	81.2	72.1	72.1	77.3	94.6	102.2	91.3	96.2
178.0	80°	134.9	95.2	63.9	58.1	56.9	60.4	79.7	88.6	78.7	72.5
58.1	82.5°	53.2	49.4	51.3	45.1	41.0	43.3	62.0	73.1	57.9	52.3
32.8	85°	30.5	32.1	36.3	29.9	23.7	26.6	45.5	52.5	43.7	38.5
10.7	87.5°	8.2	11.3	16.7	15.5	10.7	11.3	21.6	29.0	25.1	19.4
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>
434.9
446.0
463.7
485.2
504.9
511.9
512.1
503.1
481.9
451.8
420.3
391.4
365.9
333.9
298.1
262.5
230.5
203.7
177.2
162.1
152.7
146.1
141.5
136.6
128.1
121.1
118.3
<i>118.0</i>
116.2
125.9
124.8
88.2
68.0
52.1
39.3
20.0
0.0

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