

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: P941596

Luminaire Tested: **GALN-SB5A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12363 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

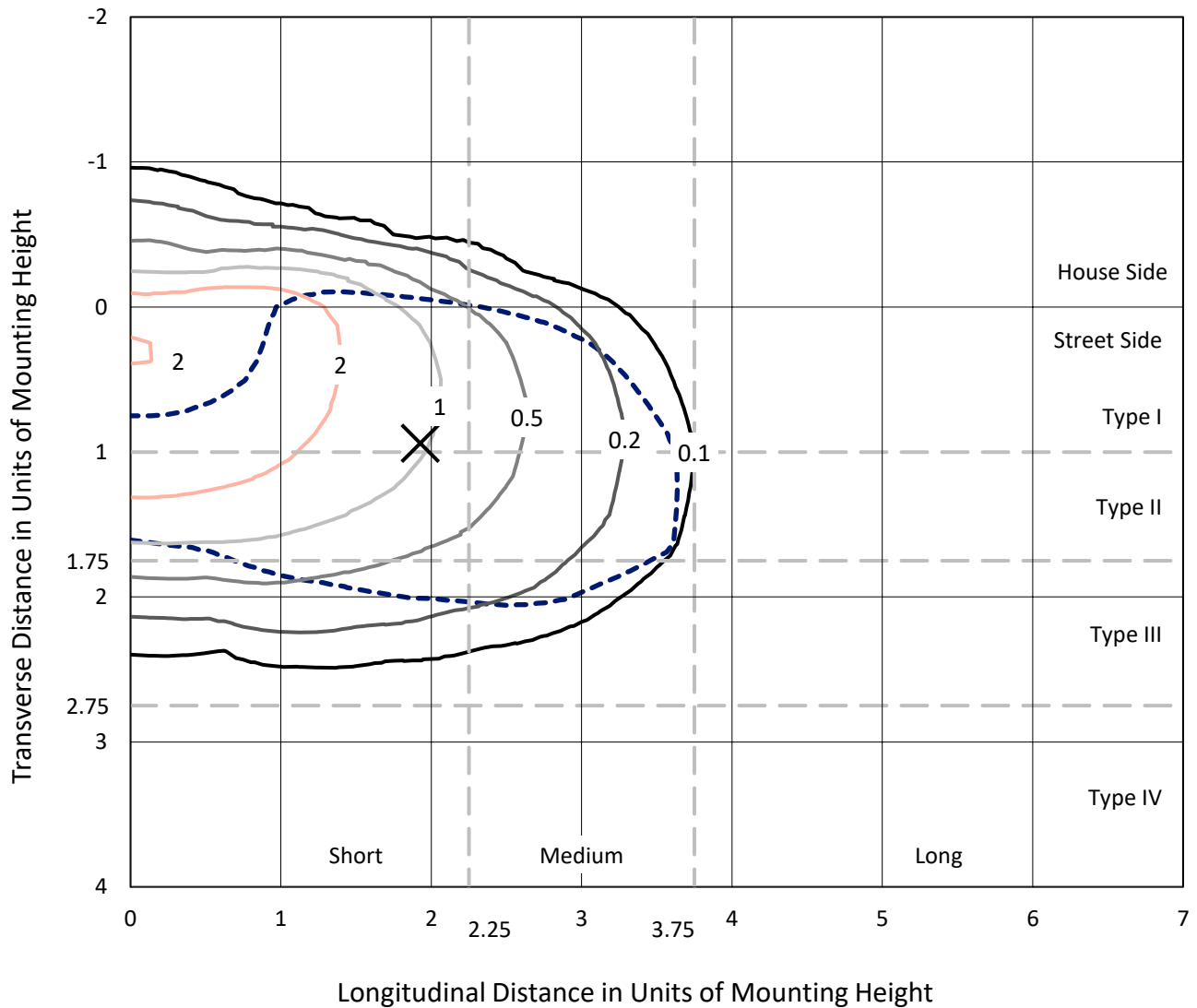
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

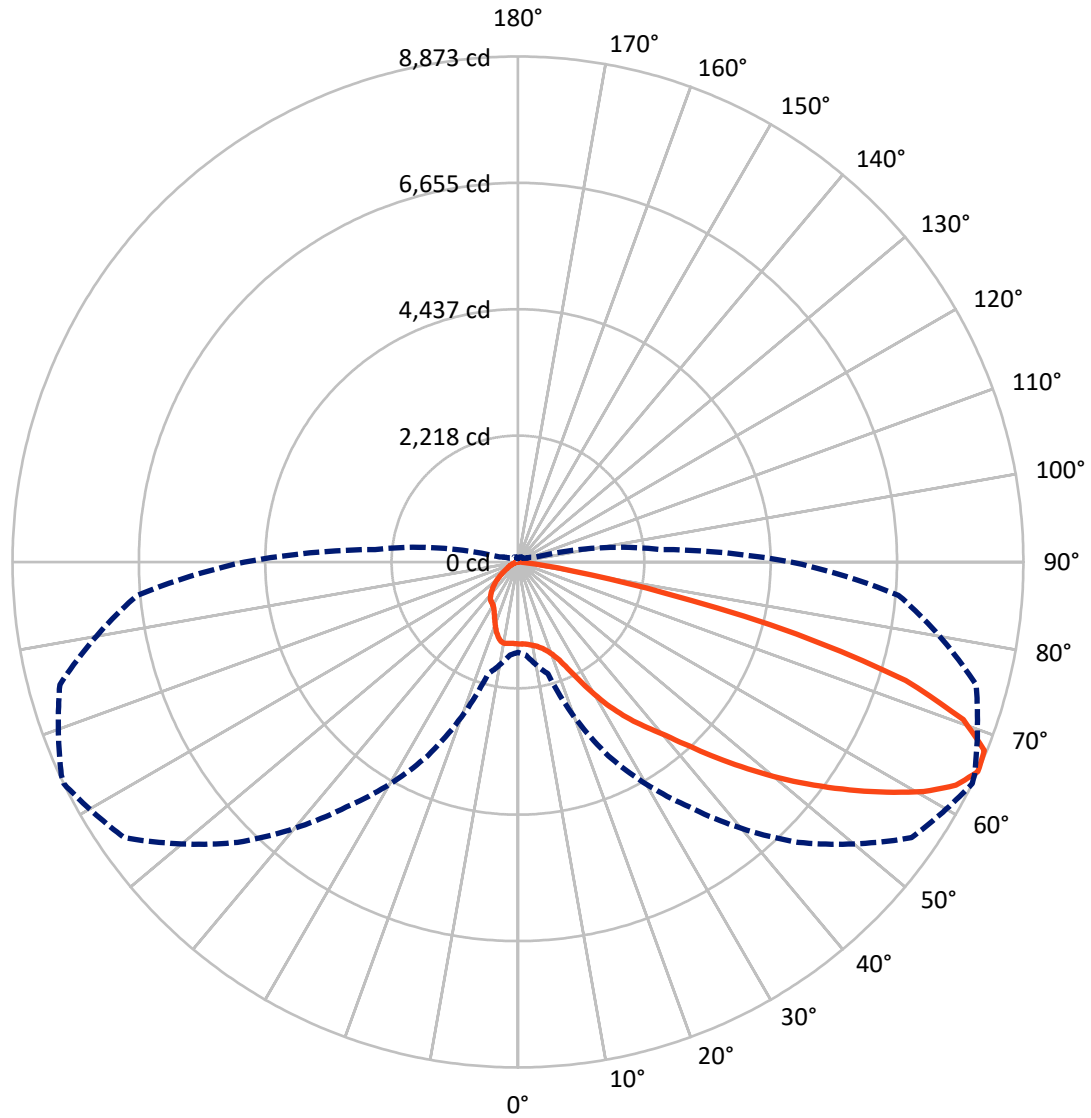
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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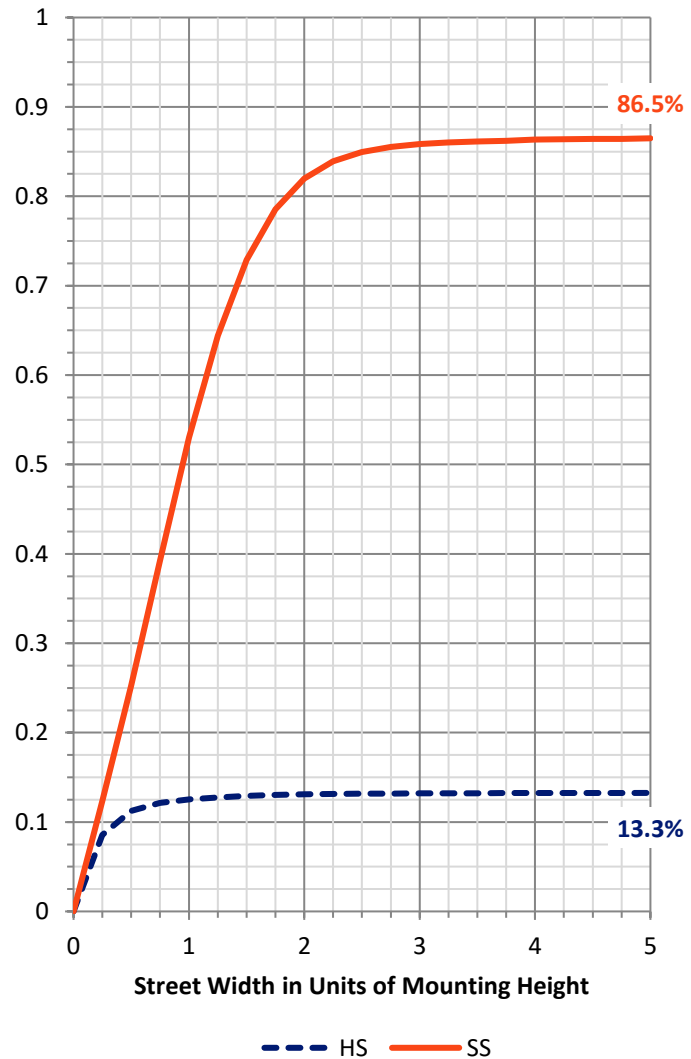
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.3	0.0	1653.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10709.7	0.0	10709.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	12363.0	0.0	12363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.1
10°-20°	359.8	2.9
20°-30°	681.8	5.5
30°-40°	1379.7	11.2
40°-50°	2350.4	19.0
50°-60°	3196.3	25.9
60°-70°	3001.5	24.3
70°-80°	1202.5	9.7
80°-90°	58.3	0.5
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°	12363.0	100.0
0°-180°	12363.0	100.0

Coefficient of Utilization



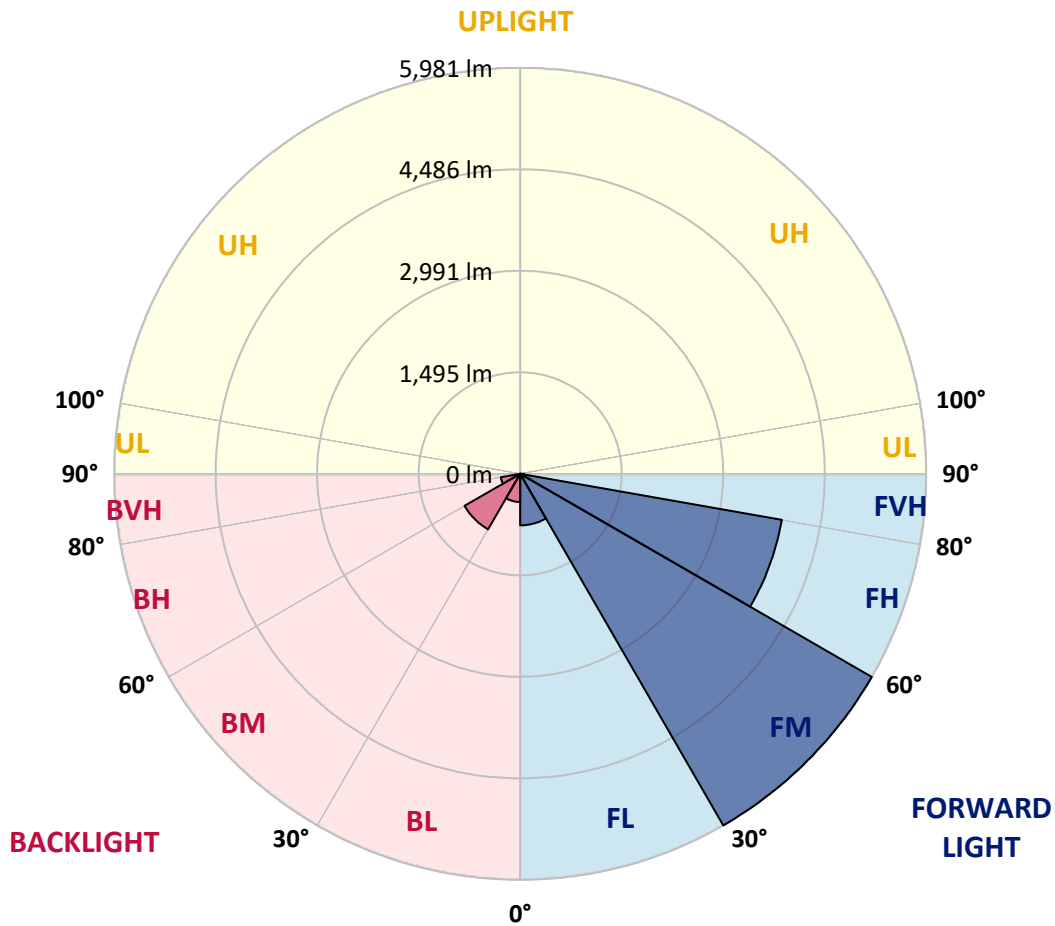
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.2	6.1			
FM (30°-60°)	5981.2	48.4			
FH (60°-80°)	3913.8	31.7			G2/5000
FVH (80°-90°)	55.4	0.4			G1/100
BL (0°-30°)	415.1	3.4	B1/500		
BM (30°-60°)	945.2	7.6	B1/1000		
BH (60°-80°)	290.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	1433.0	1442.9	1440.4	1437.9	1437.1	1438.8	1439.6	1438.8	1438.8	1438.8
5°	1405.6	1413.9	1413.9	1419.7	1428.0	1437.9	1445.4	1447.1	1448.7	1451.2
7.5°	1353.4	1360.0	1365.0	1384.1	1404.8	1431.3	1453.7	1465.3	1467.0	1476.1
10°	1317.8	1326.1	1334.3	1354.2	1384.1	1423.9	1462.0	1490.2	1494.3	1515.9
12.5°	1316.1	1324.4	1335.2	1356.7	1391.5	1433.8	1480.2	1520.8	1528.3	1559.8
15°	1333.5	1343.5	1353.4	1379.9	1417.2	1468.6	1518.3	1568.9	1576.4	1621.1
17.5°	1369.2	1382.4	1389.9	1416.4	1456.2	1513.4	1578.8	1636.9	1643.5	1695.7
20°	1439.6	1455.3	1457.8	1479.4	1518.3	1579.7	1657.6	1729.7	1738.0	1797.6
22.5°	1585.5	1607.8	1588.0	1598.7	1633.5	1694.9	1779.4	1870.6	1882.2	1950.1
25°	1842.4	1873.9	1822.5	1804.3	1819.2	1883.0	1989.1	2104.3	2117.6	2172.3
27.5°	2347.1	2306.5	2228.6	2152.4	2107.6	2144.1	2263.4	2406.0	2422.5	2475.6
30°	2901.6	2865.9	2760.7	2591.6	2485.5	2479.7	2590.0	2749.1	2768.1	2818.7
32.5°	3456.9	3422.9	3308.5	3100.5	2916.5	2825.3	2901.6	3078.1	3088.1	3120.4
35°	4003.0	3968.2	3853.9	3640.9	3414.6	3207.4	3192.5	3391.4	3394.7	3428.7
37.5°	4552.5	4523.5	4401.7	4192.8	3969.9	3684.0	3545.6	3688.1	3692.2	3725.4
40°	4944.5	4957.0	4873.3	4711.7	4520.2	4207.8	3941.7	4003.9	3979.0	4034.5
42.5°	5281.0	5305.9	5233.0	5151.7	5040.7	4765.5	4432.4	4421.6	4381.8	4411.6
45°	5571.9	5592.7	5527.2	5508.1	5505.6	5312.5	4968.6	4903.9	4848.4	4842.6
47.5°	5678.8	5718.6	5746.8	5810.6	5934.9	5853.7	5523.0	5422.8	5360.6	5315.0
50°	5719.5	5761.7	5857.9	6043.5	6337.7	6372.5	6075.0	5962.3	5886.0	5803.2
52.5°	5664.8	5740.2	5869.5	6181.9	6608.7	6788.6	6604.6	6506.0	6419.0	6283.9
55°	5342.4	5417.8	5682.2	6180.3	6743.8	7080.3	7105.2	7061.3	6963.5	6750.5
57.5°	4662.8	4774.6	5193.2	5969.8	6741.4	7331.4	7595.8	7627.3	7517.9	7212.9
60°	3721.3	3872.9	4383.5	5503.1	6533.3	7467.4	8026.0	8183.4	8067.4	7668.8
62.5°	2596.6	2772.3	3255.5	4772.2	6057.6	7369.6	8340.1	8631.0	8543.1	8076.5
65°	1583.8	1640.2	2029.7	3755.2	5248.7	6960.2	8437.1	8873.0	8844.0	8326.0
67.5°	1055.0	1102.3	1214.2	2575.0	4074.3	6142.1	8205.0	8830.7	8839.0	8285.4
70°	635.7	676.3	749.2	1497.6	2640.5	4861.7	7486.4	8292.0	8340.1	7742.5
72.5°	261.9	289.2	355.5	678.8	1367.5	3085.6	5961.5	7119.3	7231.2	6510.1
75°	148.4	162.4	208.9	340.6	593.4	1437.9	3611.0	5053.9	5218.9	4487.1
77.5°	98.6	105.3	135.1	220.5	334.0	490.6	1543.2	2633.1	2948.0	2450.7
80°	66.3	72.1	92.8	147.5	217.1	210.5	491.5	975.5	1200.1	842.0
82.5°	44.8	45.6	66.3	97.0	137.6	101.9	145.0	303.3	381.2	243.7
85°	25.7	24.9	48.9	56.4	61.3	42.3	43.9	91.2	119.3	102.8
87.5°	3.3	5.0	19.1	14.9	8.3	9.1	9.1	15.7	23.2	24.9
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°
1437.9	0°	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9
1439.6	2.5°	1439.6	1438.8	1436.3	1433.8	1428.0	1424.7	1426.3	1424.7	1423.9	1424.7
1450.4	5°	1450.4	1447.9	1441.3	1433.0	1421.4	1407.3	1398.2	1384.9	1372.5	1365.0
1479.4	7.5°	1479.4	1476.9	1467.8	1444.6	1407.3	1348.4	1294.6	1247.3	1211.7	1191.0
1525.8	10°	1525.8	1521.7	1507.6	1456.2	1358.4	1229.9	1123.0	1034.3	976.3	949.0
1580.5	12.5°	1580.5	1575.5	1550.7	1445.4	1265.6	1065.0	917.5	818.8	765.0	740.9
1643.5	15°	1645.1	1638.5	1589.6	1394.0	1130.5	882.7	747.6	673.8	639.0	617.4
1723.9	17.5°	1725.5	1713.9	1618.6	1316.9	983.8	743.4	643.1	587.6	556.9	536.2
1829.1	20°	1830.0	1810.9	1641.8	1224.9	848.7	655.6	572.7	526.3	503.1	484.8
1978.3	22.5°	1975.8	1948.5	1670.0	1125.5	753.4	595.1	520.5	486.5	467.4	446.7
2186.3	25°	2156.5	2124.2	1704.8	1033.5	687.9	542.9	482.4	454.2	431.8	407.8
2459.0	27.5°	2409.3	2351.3	1746.3	958.1	631.5	498.1	447.5	416.1	390.4	370.5
2768.1	30°	2691.1	2595.8	1782.7	912.5	580.2	456.7	402.0	370.5	346.4	332.3
3045.8	32.5°	2957.9	2828.6	1806.8	892.6	533.7	409.4	352.2	318.3	300.0	295.9
3317.6	35°	3209.9	3039.2	1804.3	873.5	492.3	362.2	303.3	268.5	254.4	256.9
3610.2	37.5°	3500.0	3263.8	1786.9	843.7	458.3	319.1	261.1	230.4	218.0	218.8
3965.7	40°	3837.3	3523.2	1776.1	787.3	421.0	279.3	226.3	201.4	192.3	189.0
4340.4	42.5°	4197.0	3774.3	1777.7	723.5	374.6	243.7	202.2	181.5	173.2	170.7
4757.2	45°	4558.3	4013.8	1780.2	657.2	325.7	216.3	184.8	167.4	162.4	159.1
5179.9	47.5°	4898.1	4217.7	1733.8	586.0	277.6	195.6	170.7	159.1	155.0	150.8
5604.3	50°	5214.7	4353.6	1621.9	503.1	239.5	179.0	160.0	151.7	147.5	143.4
5988.8	52.5°	5460.9	4375.2	1437.1	417.7	213.0	166.6	153.3	145.9	140.9	136.7
6299.6	55°	5570.3	4240.1	1174.4	338.1	192.3	155.8	146.7	139.2	133.4	129.3
6544.1	57.5°	5542.1	3955.8	915.8	271.8	172.4	145.0	138.4	133.4	126.8	120.2
6742.2	60°	5403.7	3575.4	690.4	226.3	154.2	133.4	129.3	125.1	116.0	106.1
6818.4	62.5°	5164.2	3097.2	492.3	187.3	134.3	120.2	118.5	115.2	101.9	83.7
6705.7	65°	4797.8	2516.2	331.5	155.8	115.2	105.3	106.1	100.3	82.9	62.2
6293.0	67.5°	4262.5	1839.9	212.2	127.6	96.1	87.9	88.7	85.4	70.4	53.0
5510.6	70°	3580.4	1218.3	138.4	97.0	77.1	68.0	72.9	73.8	59.7	43.1
4229.3	72.5°	2624.8	719.4	97.0	72.1	56.4	47.2	59.7	61.3	48.1	32.3
2544.4	75°	1496.0	341.5	72.9	52.2	34.8	33.2	46.4	46.4	33.2	21.5
1101.5	77.5°	628.2	142.6	51.4	34.0	19.9	19.1	31.5	29.0	16.6	9.9
268.5	80°	181.5	63.8	27.3	16.6	8.3	7.5	12.4	9.1	4.1	1.7
101.9	82.5°	71.3	28.2	10.8	6.6	3.3	3.3	1.7	0.0	0.0	0.0
58.0	85°	42.3	11.6	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	10.8	2.5	1.7	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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<u>180°</u>
1437.9
1428.0
1366.7
1191.8
946.5
738.4
618.3
534.6
481.5
443.4
405.3
366.3
329.9
298.4
256.9
222.1
188.1
169.9
159.1
150.8
143.4
135.9
128.5
119.3
104.4
82.0
60.5
50.6
41.4
30.7
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