

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: P941766

Luminaire Tested: **GALN-SB5B-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941766
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-SB5B-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA 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: 15519 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

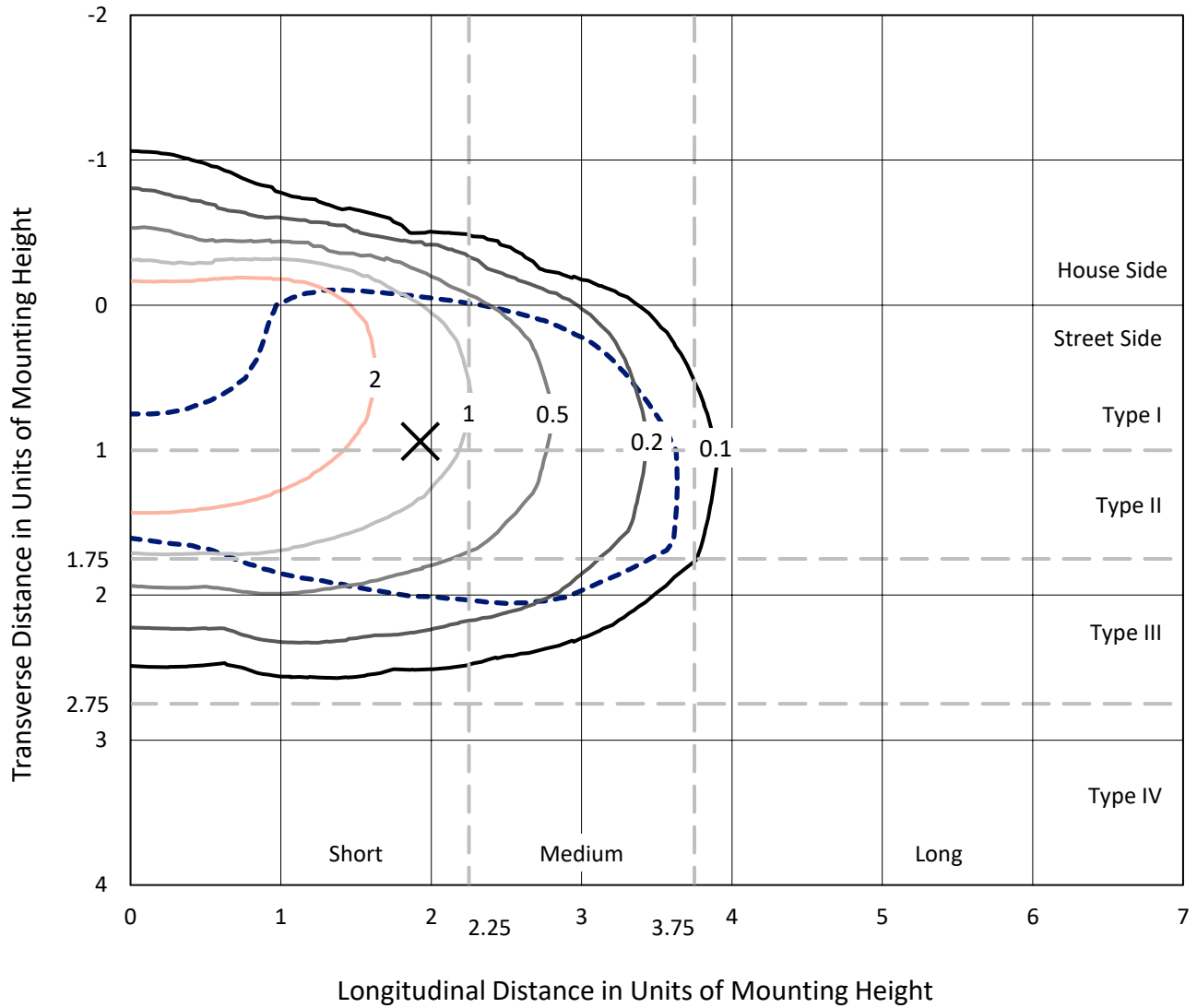
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

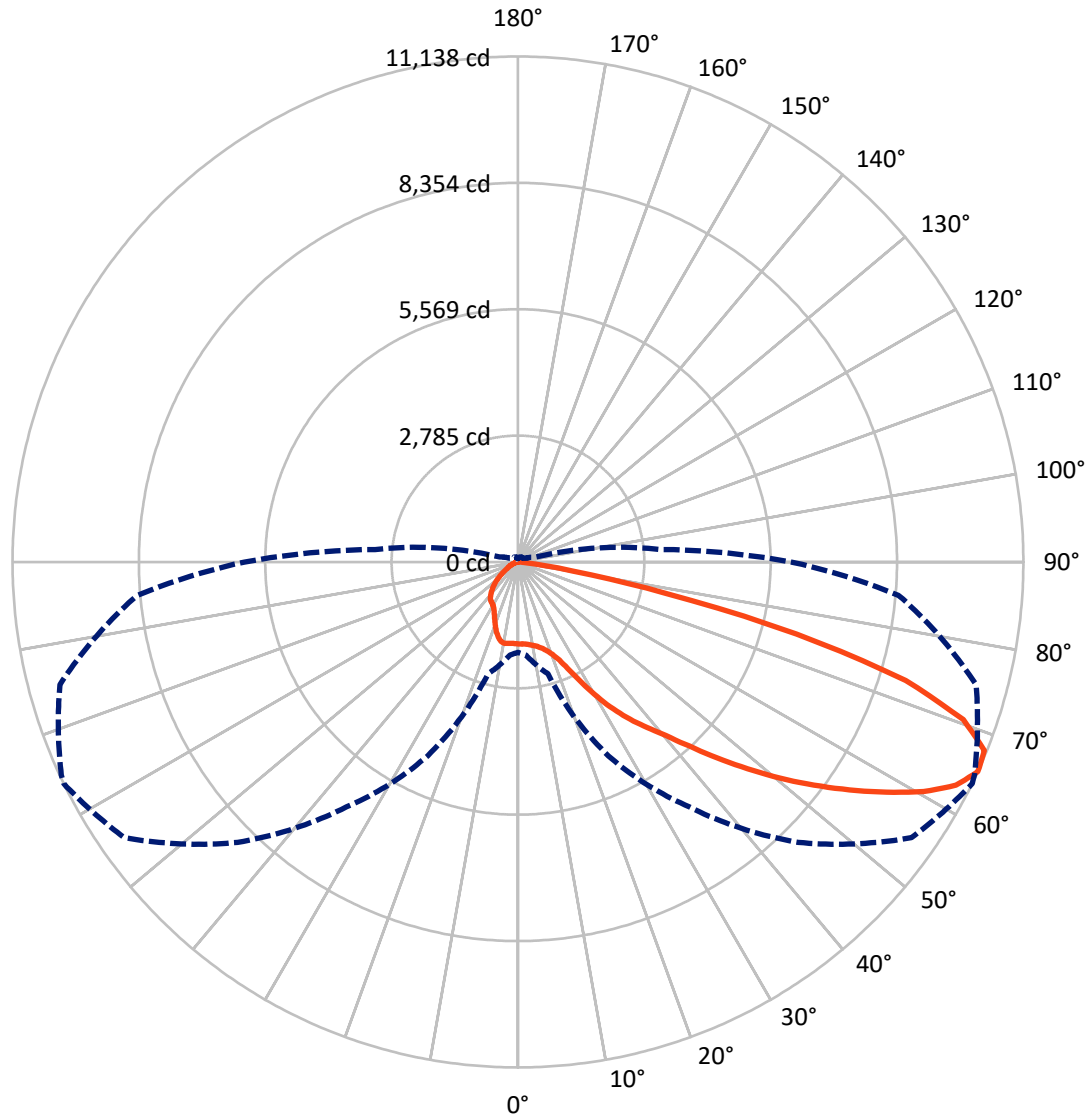
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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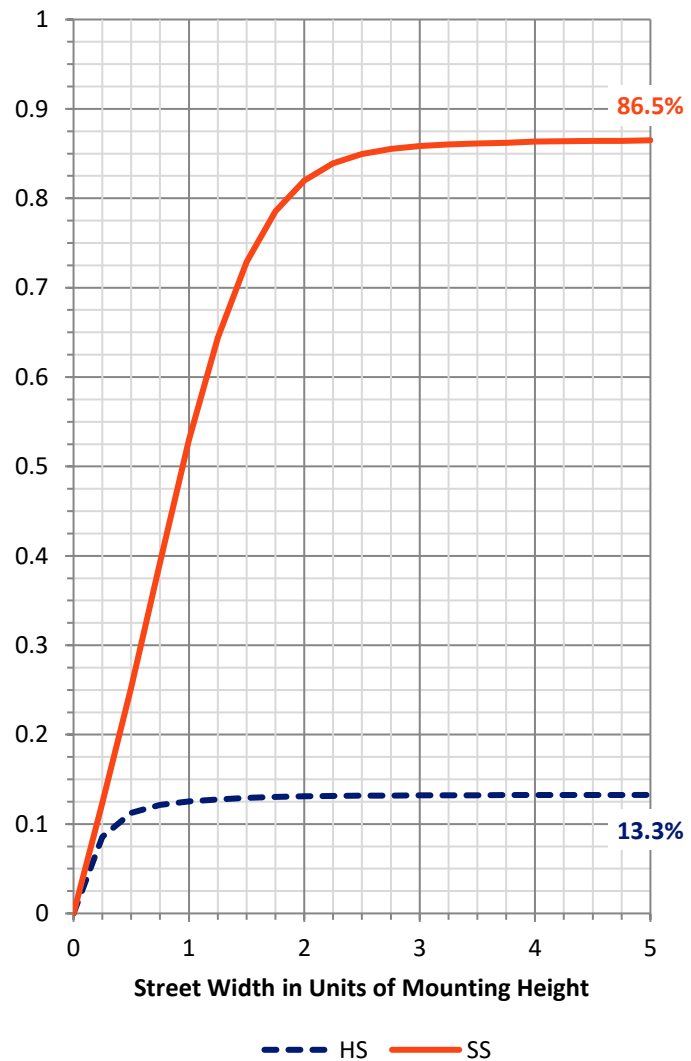
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.4	0.0	2075.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13443.6	0.0	13443.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	15519.0	0.0	15519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.1
10°-20°	451.7	2.9
20°-30°	855.9	5.5
30°-40°	1731.9	11.2
40°-50°	2950.4	19.0
50°-60°	4012.3	25.9
60°-70°	3767.7	24.3
70°-80°	1509.5	9.7
80°-90°	73.1	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°	15519.0	100.0
0°-180°	15519.0	100.0

Coefficient of Utilization



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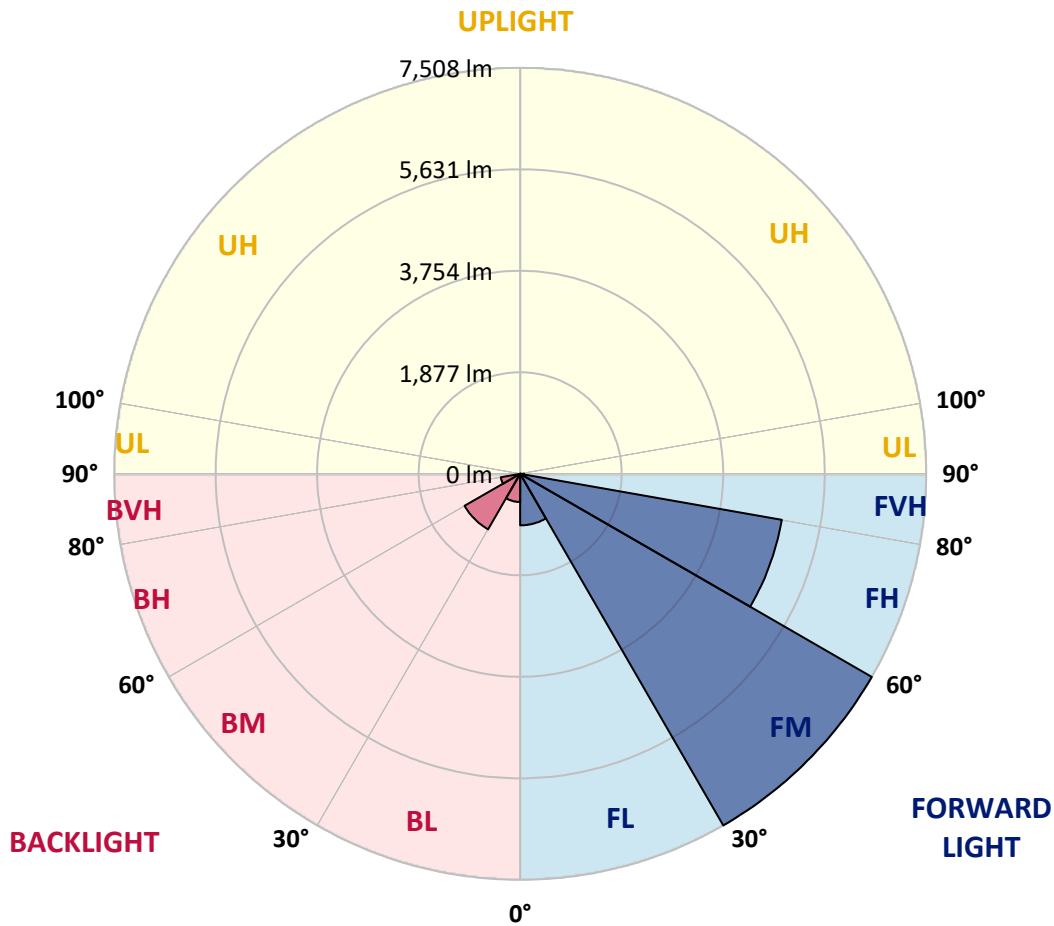
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.0	6.1			
FM (30°-60°)	7508.1	48.4			
FH (60°-80°)	4913.0	31.7			G2/5000
FVH (80°-90°)	69.6	0.4			G1/100
BL (0°-30°)	521.1	3.4	B2/1000		
BM (30°-60°)	1186.5	7.6	B2/2500		
BH (60°-80°)	364.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0
2.5°	1798.8	1811.3	1808.1	1805.0	1804.0	1806.1	1807.1	1806.1	1806.1	1806.1
5°	1764.4	1774.9	1774.9	1782.1	1792.5	1805.0	1814.4	1816.5	1818.5	1821.7
7.5°	1698.9	1707.2	1713.5	1737.4	1763.4	1796.7	1824.8	1839.4	1841.4	1852.9
10°	1654.2	1664.6	1675.0	1699.9	1737.4	1787.3	1835.2	1870.6	1875.8	1902.8
12.5°	1652.1	1662.5	1676.0	1703.1	1746.8	1799.8	1858.1	1909.1	1918.4	1958.0
15°	1673.9	1686.4	1698.9	1732.2	1779.0	1843.5	1905.9	1969.4	1978.8	2034.9
17.5°	1718.7	1735.3	1744.7	1778.0	1827.9	1899.7	1981.9	2054.7	2063.0	2128.6
20°	1807.1	1826.9	1830.0	1857.0	1905.9	1982.9	2080.7	2171.2	2181.6	2256.5
22.5°	1990.2	2018.3	1993.3	2006.9	2050.5	2127.5	2233.6	2348.1	2362.7	2448.0
25°	2312.7	2352.2	2287.7	2264.9	2283.6	2363.7	2496.9	2641.5	2658.1	2726.8
27.5°	2946.3	2895.3	2797.5	2701.8	2645.6	2691.4	2841.2	3020.2	3041.0	3107.5
30°	3642.3	3597.6	3465.4	3253.2	3120.0	3112.8	3251.1	3450.9	3474.8	3538.3
32.5°	4339.3	4296.7	4153.1	3892.0	3661.0	3546.6	3642.3	3863.9	3876.4	3916.9
35°	5024.9	4981.2	4837.7	4570.3	4286.3	4026.2	4007.5	4257.1	4261.3	4304.0
37.5°	5714.7	5678.3	5525.3	5263.2	4983.3	4624.4	4450.7	4629.6	4634.8	4676.4
40°	6206.8	6222.4	6117.3	5914.4	5674.1	5281.9	4947.9	5026.0	4994.8	5064.5
42.5°	6629.2	6660.4	6568.8	6466.9	6327.5	5982.1	5563.8	5550.3	5500.4	5537.8
45°	6994.3	7020.3	6938.1	6914.2	6911.1	6668.7	6236.9	6155.8	6086.1	6078.8
47.5°	7128.5	7178.5	7213.8	7293.9	7450.0	7348.0	6932.9	6807.1	6729.0	6671.8
50°	7179.5	7232.6	7353.2	7586.3	7955.6	7999.3	7625.8	7484.3	7388.6	7284.6
52.5°	7110.8	7205.5	7367.8	7760.0	8295.8	8521.6	8290.6	8166.8	8057.6	7888.0
55°	6706.1	6800.8	7132.7	7757.9	8465.4	8887.8	8919.0	8863.8	8741.1	8473.7
57.5°	5853.1	5993.5	6518.9	7493.7	8462.3	9203.0	9534.9	9574.4	9437.1	9054.2
60°	4671.2	4861.6	5502.5	6908.0	8201.1	9373.6	10074.8	10272.5	10126.8	9626.4
62.5°	3259.4	3480.0	4086.5	5990.4	7604.0	9250.9	10469.1	10834.3	10724.0	10138.3
65°	1988.1	2058.9	2547.8	4713.9	6588.6	8736.9	10590.8	11138.1	11101.7	10451.4
67.5°	1324.4	1383.7	1524.1	3232.4	5114.4	7710.1	10299.5	11085.0	11095.4	10400.5
70°	798.0	848.9	940.5	1879.9	3314.6	6102.7	9397.6	10408.8	10469.1	9719.0
72.5°	328.8	363.1	446.3	852.1	1716.6	3873.3	7483.3	8936.7	9077.1	8172.0
75°	186.2	203.9	262.2	427.6	744.9	1805.0	4532.8	6344.1	6551.1	5632.5
77.5°	123.8	132.1	169.6	276.7	419.3	615.9	1937.1	3305.2	3700.6	3076.3
80°	83.2	90.5	116.5	185.2	272.6	264.3	616.9	1224.5	1506.4	1057.0
82.5°	56.2	57.2	83.2	121.7	172.7	128.0	182.1	380.8	478.6	305.9
85°	32.3	31.2	61.4	70.7	77.0	53.1	55.1	114.4	149.8	129.0
87.5°	4.2	6.2	23.9	18.7	10.4	11.4	11.4	19.8	29.1	31.2
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°
1805.0	0°	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0	1805.0
1807.1	2.5°	1807.1	1806.1	1802.9	1799.8	1792.5	1788.4	1790.5	1788.4	1787.3	1788.4
1820.6	5°	1820.6	1817.5	1809.2	1798.8	1784.2	1766.5	1755.1	1738.4	1722.8	1713.5
1857.0	7.5°	1857.0	1853.9	1842.5	1813.3	1766.5	1692.7	1625.0	1565.7	1521.0	1495.0
1915.3	10°	1915.3	1910.1	1892.4	1827.9	1705.1	1543.9	1409.7	1298.4	1225.5	1191.2
1984.0	12.5°	1984.0	1977.7	1946.5	1814.4	1588.6	1336.9	1151.7	1027.9	960.3	930.1
2063.0	15°	2065.1	2056.8	1995.4	1749.9	1419.0	1108.0	938.4	845.8	802.1	775.1
2163.9	17.5°	2166.0	2151.5	2031.8	1653.1	1234.9	933.2	807.3	737.6	699.1	673.1
2296.1	20°	2297.1	2273.2	2060.9	1537.6	1065.3	822.9	718.9	660.6	631.5	608.6
2483.3	22.5°	2480.2	2445.9	2096.3	1412.8	945.7	747.0	653.3	610.7	586.8	560.8
2744.5	25°	2707.0	2666.4	2140.0	1297.3	863.5	681.4	605.5	570.1	542.0	511.9
3086.7	27.5°	3024.3	2951.5	2192.0	1202.7	792.8	625.3	561.8	522.3	490.0	465.0
3474.8	30°	3378.0	3258.4	2237.8	1145.4	728.3	573.2	504.6	465.0	434.9	417.2
3823.3	32.5°	3713.0	3550.7	2268.0	1120.5	670.0	513.9	442.2	399.5	376.6	371.4
4164.6	35°	4029.3	3815.0	2264.9	1096.5	618.0	454.6	380.8	337.1	319.4	322.5
4531.8	37.5°	4393.4	4096.9	2243.0	1059.1	575.3	400.5	327.7	289.2	273.6	274.7
4978.1	40°	4816.9	4422.6	2229.5	988.3	528.5	350.6	284.0	252.8	241.4	237.2
5448.4	42.5°	5268.4	4737.8	2231.6	908.2	470.2	305.9	253.8	227.8	217.4	214.3
5971.7	45°	5722.0	5038.5	2234.7	825.0	408.9	271.5	232.0	210.2	203.9	199.7
6502.2	47.5°	6148.5	5294.4	2176.4	735.5	348.5	245.5	214.3	199.7	194.5	189.3
7034.9	50°	6545.9	5465.0	2036.0	631.5	300.7	224.7	200.8	190.4	185.2	180.0
7517.6	52.5°	6854.9	5492.0	1804.0	524.3	267.4	209.1	192.5	183.1	176.9	171.7
7907.8	55°	6992.2	5322.5	1474.2	424.5	241.4	195.6	184.1	174.8	167.5	162.3
8214.7	57.5°	6956.9	4965.6	1149.6	341.2	216.4	182.1	173.7	167.5	159.2	150.9
8463.3	60°	6783.1	4488.1	866.6	284.0	193.5	167.5	162.3	157.1	145.7	133.2
8559.0	62.5°	6482.5	3887.8	618.0	235.1	168.5	150.9	148.8	144.6	128.0	105.1
8417.5	65°	6022.6	3158.5	416.1	195.6	144.6	132.1	133.2	125.9	104.0	78.0
7899.4	67.5°	5350.6	2309.6	266.3	160.2	120.7	110.3	111.3	107.2	88.4	66.6
6917.3	70°	4494.3	1529.3	173.7	121.7	96.8	85.3	91.6	92.6	74.9	54.1
5308.9	72.5°	3294.8	903.0	121.7	90.5	70.7	59.3	74.9	77.0	60.3	40.6
3193.9	75°	1877.8	428.6	91.6	65.5	43.7	41.6	58.3	58.3	41.6	27.0
1382.6	77.5°	788.6	178.9	64.5	42.7	25.0	23.9	39.5	36.4	20.8	12.5
337.1	80°	227.8	80.1	34.3	20.8	10.4	9.4	15.6	11.4	5.2	2.1
128.0	82.5°	89.5	35.4	13.5	8.3	4.2	4.2	2.1	0.0	0.0	0.0
72.8	85°	53.1	14.6	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.6	87.5°	13.5	3.1	2.1	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>
1805.0
1792.5
1715.6
1496.0
1188.1
927.0
776.1
671.0
604.4
556.6
508.7
459.8
414.1
374.5
322.5
278.8
236.2
213.3
199.7
189.3
180.0
170.6
161.3
149.8
131.1
103.0
75.9
63.5
52.0
38.5
25.0
12.5
2.1
0.0
0.0
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