

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: P957659

Luminaire Tested: **GALN-SB9D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51736 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

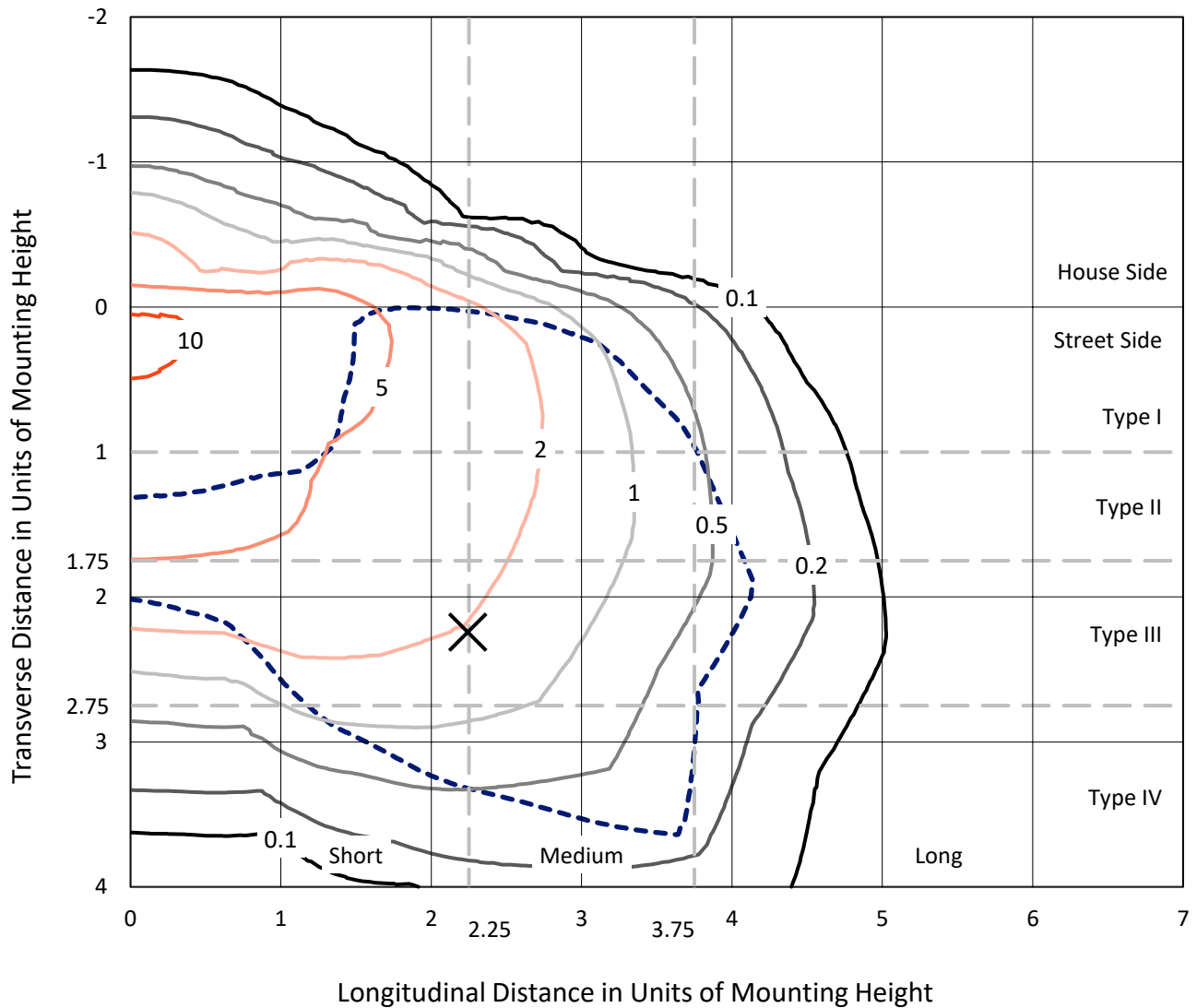
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

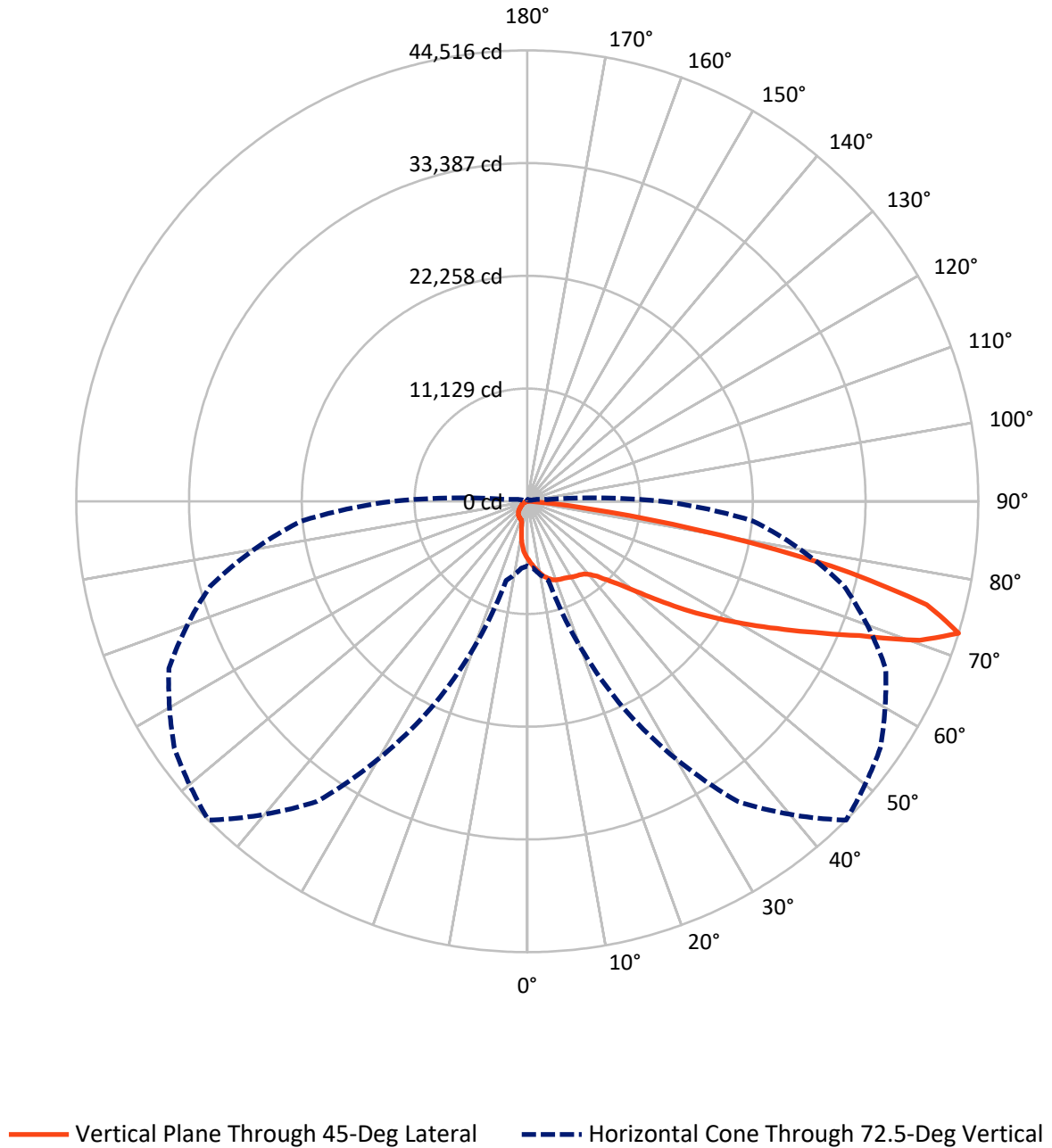
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5436.0	0.0	5436.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	46300.0	0.0	46300.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	51736.0	0.0	51736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	1.0
10°-20°	1560.7	3.0
20°-30°	2562.9	5.0
30°-40°	3634.8	7.0
40°-50°	6008.0	11.6
50°-60°	10792.7	20.9
60°-70°	14986.3	29.0
70°-80°	10870.6	21.0
80°-90°	785.9	1.5
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°	51736.0	100.0
0°-180°	51736.0	100.0

Coefficient of Utilization



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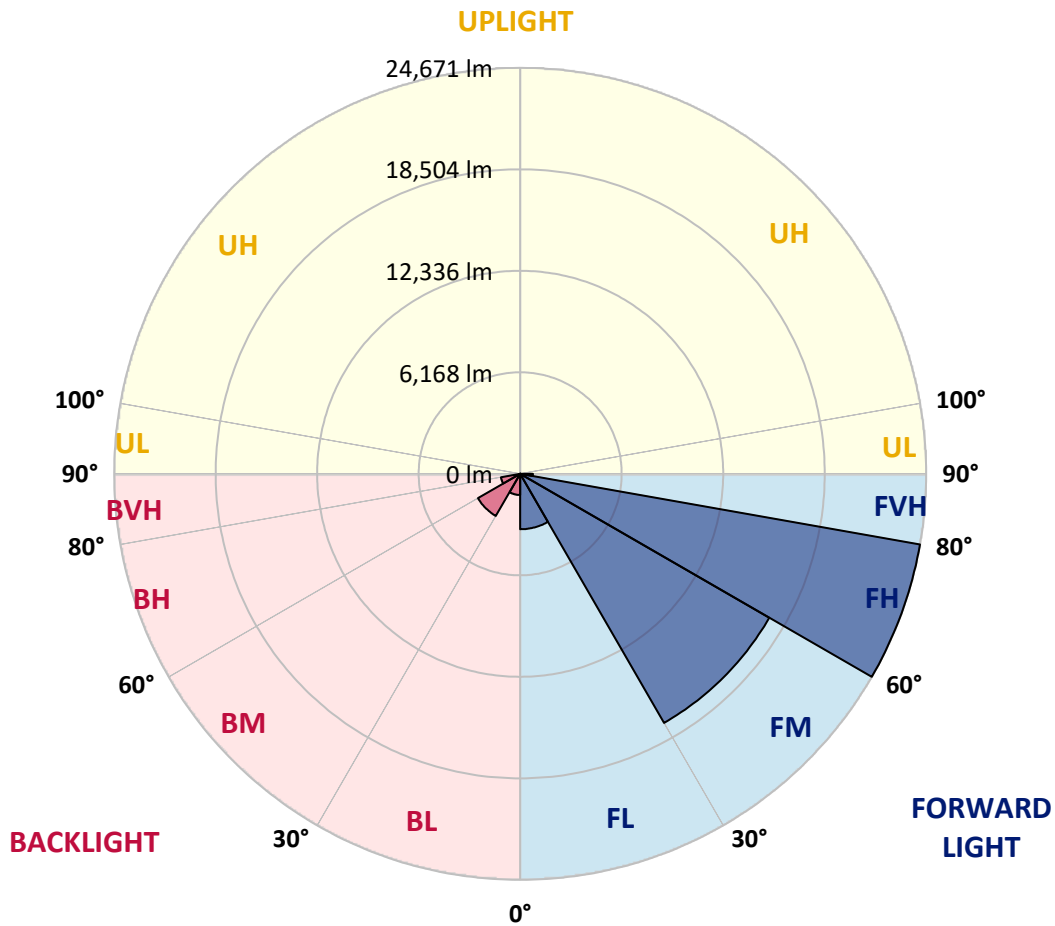
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3370.1	6.5			
FM (30°-60°)	17479.2	33.8			
FH (60°-80°)	24671.4	47.7			G5
FVH (80°-90°)	779.3	1.5			G5
BL (0°-30°)	1287.6	2.5	B3/2500		
BM (30°-60°)	2956.4	5.7	B3/5000		
BH (60°-80°)	1185.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8
2.5°	6190.4	6201.0	6194.0	6151.6	6081.0	6042.1	6020.9	5950.3	5904.4	5823.2
5°	6759.0	6801.3	6776.6	6691.9	6557.7	6462.3	6434.1	6289.3	6158.6	6006.8
7.5°	7362.8	7384.0	7338.1	7228.6	7048.5	6886.1	6861.4	6660.1	6451.7	6218.7
10°	7885.5	7910.2	7839.6	7680.6	7475.8	7274.5	7239.2	7016.8	6769.6	6483.5
12.5°	8323.4	8348.1	8256.3	8065.6	7839.6	7631.2	7595.9	7362.8	7090.9	6773.1
15°	8655.3	8701.2	8577.6	8372.8	8129.1	7920.8	7903.1	7673.6	7408.7	7055.6
17.5°	8849.5	8895.4	8778.9	8531.7	8323.4	8146.8	8125.6	7934.9	7687.7	7348.7
20°	8881.3	8923.7	8800.1	8584.7	8411.6	8270.4	8259.8	8122.1	7942.0	7617.1
22.5°	8786.0	8838.9	8725.9	8552.9	8432.8	8358.7	8344.5	8266.8	8164.4	7889.0
25°	8687.1	8729.5	8644.7	8492.9	8429.3	8422.2	8432.8	8418.7	8397.5	8164.4
27.5°	8680.0	8725.9	8630.6	8485.8	8450.5	8524.6	8535.2	8602.3	8620.0	8415.2
30°	8740.0	8771.8	8680.0	8528.2	8510.5	8680.0	8683.5	8803.6	8831.9	8627.0
32.5°	8870.7	8906.0	8814.2	8591.7	8567.0	8803.6	8814.2	8973.1	9019.0	8853.1
35°	9177.9	9220.3	9114.4	8768.3	8680.0	8920.1	8951.9	9139.1	9230.9	9093.2
37.5°	9944.2	9820.6	9675.9	9125.0	8937.8	9103.8	9156.7	9375.7	9538.1	9379.2
40°	11847.6	11459.2	11007.2	9732.4	9389.8	9495.8	9538.1	9757.1	9979.5	9824.2
42.5°	14704.5	14245.4	13517.9	11130.8	10071.4	10124.3	10156.1	10346.8	10661.1	10537.5
45°	17250.6	17084.6	16343.0	13517.9	11346.2	11084.9	11123.7	11222.6	11685.2	11639.3
47.5°	19206.9	19111.6	18539.5	16258.3	13500.3	12260.8	12370.3	12416.2	13083.6	13246.0
50°	20711.3	20676.0	20163.9	18694.9	16314.8	13994.7	14033.5	13934.6	14934.0	15336.6
52.5°	22130.9	22250.9	21873.1	20958.5	19319.9	16265.3	16258.3	15792.1	17141.1	17748.5
55°	23412.7	23455.1	23494.0	23268.0	22342.7	18850.3	18783.2	18020.4	19701.3	20329.9
57.5°	24616.9	24634.6	24980.6	25443.3	25489.2	21625.9	21502.3	20587.7	22498.1	22946.6
60°	25425.6	25506.8	26237.8	27523.2	28084.7	24489.8	24422.7	23490.4	25344.4	25552.7
62.5°	24260.3	24754.6	26598.0	29147.6	30535.4	27664.5	27632.7	26756.9	28338.9	28169.4
65°	19637.7	20474.7	23716.4	30245.9	32940.3	31209.9	31255.8	30323.6	31414.7	30863.8
67.5°	13736.9	14619.7	18454.7	30334.1	35627.6	35373.4	35638.2	34176.2	34681.2	33445.3
70°	9499.3	9954.8	12451.5	28434.3	37721.7	41108.2	41101.2	38908.2	37930.0	34621.2
72.5°	6388.2	6624.8	8086.8	22558.2	36182.0	44516.0	44311.2	42524.3	39024.8	32378.8
75°	2694.4	2867.4	3743.2	12677.5	28625.0	40726.9	40172.4	37580.4	34674.2	25496.2
77.5°	854.6	928.7	1476.1	4537.8	15767.4	30613.1	30026.9	23469.2	23239.7	12790.5
80°	406.1	473.2	829.9	1822.2	6204.6	16650.2	16569.0	10647.0	9997.2	3453.6
82.5°	176.6	208.3	459.1	974.6	2775.6	5939.7	6059.8	3623.1	2998.1	1310.1
85°	56.5	74.2	211.9	448.5	1172.4	1476.1	1458.4	861.6	1207.7	713.3
87.5°	0.0	0.0	70.6	102.4	120.1	84.8	95.3	74.2	335.5	197.8
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°
5667.8	0°	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8	5667.8
5738.4	2.5°	5696.0	5639.5	5540.7	5448.8	5367.6	5286.4	5237.0	5166.3	5159.3	5159.3
5830.2	5°	5734.9	5643.1	5466.5	5279.3	5063.9	4859.1	4654.3	4456.5	4393.0	4347.1
5978.5	7.5°	5847.9	5703.1	5424.1	5067.5	4657.8	4209.3	3895.1	3556.1	3425.4	3354.8
6176.3	10°	6010.3	5812.6	5388.8	4763.8	4099.9	3489.0	3040.5	2673.2	2532.0	2471.9
6391.7	12.5°	6190.4	5946.8	5325.2	4385.9	3489.0	2758.0	2320.1	2150.6	2129.4	2129.4
6649.5	15°	6405.8	6109.2	5215.8	3941.0	2849.8	2182.4	2027.0	2034.0	2055.2	2069.4
6900.2	17.5°	6628.3	6282.2	5042.7	3443.0	2284.8	1963.4	1967.0	1977.5	1995.2	2009.3
7172.1	20°	6868.4	6455.3	4813.2	2913.3	1959.9	1899.9	1910.5	1921.0	1935.2	1942.2
7426.4	22.5°	7126.2	6617.7	4541.3	2394.2	1850.4	1846.9	1850.4	1861.0	1878.7	1878.7
7723.0	25°	7401.7	6797.8	4230.5	2016.4	1793.9	1793.9	1801.0	1808.0	1822.2	1822.2
8009.1	27.5°	7684.2	6963.8	3902.1	1818.6	1744.5	1740.9	1740.9	1751.5	1758.6	1762.1
8291.6	30°	7994.9	7158.0	3573.7	1776.3	1705.6	1688.0	1677.4	1684.4	1691.5	1695.0
8588.2	32.5°	8312.8	7345.2	3280.6	1793.9	1666.8	1635.0	1599.7	1592.6	1592.6	1606.8
8895.4	35°	8665.9	7550.0	3054.6	1853.9	1645.6	1557.3	1500.8	1469.0	1472.6	1493.8
9262.7	37.5°	9089.7	7797.2	2888.6	1906.9	1631.5	1469.0	1377.2	1338.4	1313.7	1338.4
9767.7	40°	9644.1	8160.9	2768.6	1949.3	1613.8	1366.6	1243.0	1179.5	1133.6	1147.7
10551.6	42.5°	10459.8	8733.0	2722.7	1952.8	1575.0	1246.6	1105.3	1020.6	953.5	957.0
11731.1	45°	11604.0	9637.0	2959.3	1906.9	1490.2	1115.9	960.5	847.5	805.1	794.5
13493.2	47.5°	13171.9	10954.2	3506.6	1811.6	1366.6	988.8	819.3	723.9	692.1	674.5
15806.2	50°	15273.0	12645.7	4114.0	1705.6	1243.0	868.7	702.7	642.7	621.5	603.9
18550.1	52.5°	17709.6	14361.9	4611.9	1599.7	1119.4	762.8	628.6	593.3	575.6	561.5
21198.6	55°	19945.0	15544.9	4583.7	1486.7	999.4	678.0	575.6	554.4	533.2	519.1
23479.8	57.5°	21336.3	15710.9	3778.5	1363.1	861.6	610.9	526.2	512.0	487.3	469.7
25453.8	60°	21975.5	14764.5	2648.5	1200.7	723.9	547.4	473.2	466.1	434.4	409.6
27321.9	62.5°	22092.0	13005.9	1765.7	999.4	603.9	487.3	420.2	409.6	367.3	324.9
28840.4	65°	21618.8	10491.6	1221.8	780.4	515.6	423.8	360.2	339.0	293.1	250.7
29200.6	67.5°	20121.5	7366.4	851.1	561.5	437.9	335.5	286.0	279.0	243.7	208.3
27364.3	70°	17377.7	4198.8	568.5	420.2	346.1	229.5	226.0	233.1	197.8	169.5
22356.9	72.5°	13323.7	1921.0	353.1	307.2	236.6	155.4	180.1	183.6	151.8	127.1
13948.8	75°	7843.1	822.8	222.5	197.8	120.1	102.4	130.7	134.2	102.4	81.2
5099.2	77.5°	2669.7	310.8	141.3	116.5	60.0	56.5	84.8	84.8	56.5	31.8
1024.1	80°	607.4	116.5	70.6	45.9	28.3	24.7	28.3	24.7	14.1	3.5
314.3	82.5°	173.0	45.9	28.3	17.7	10.6	10.6	3.5	0.0	0.0	0.0
109.5	85°	49.4	21.2	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
38.8	87.5°	21.2	3.5	0.0	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>
5667.8
5176.9
4368.3
3365.4
2471.9
2129.4
2069.4
2009.3
1945.8
1885.7
1825.7
1765.7
1702.1
1617.4
1504.3
1331.3
1140.6
942.9
780.4
663.9
600.3
558.0
512.0
466.1
402.6
303.7
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197.8
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