

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: P953291

Luminaire Tested: **GALN-SB6D-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953291
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-SB6D-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 45466 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

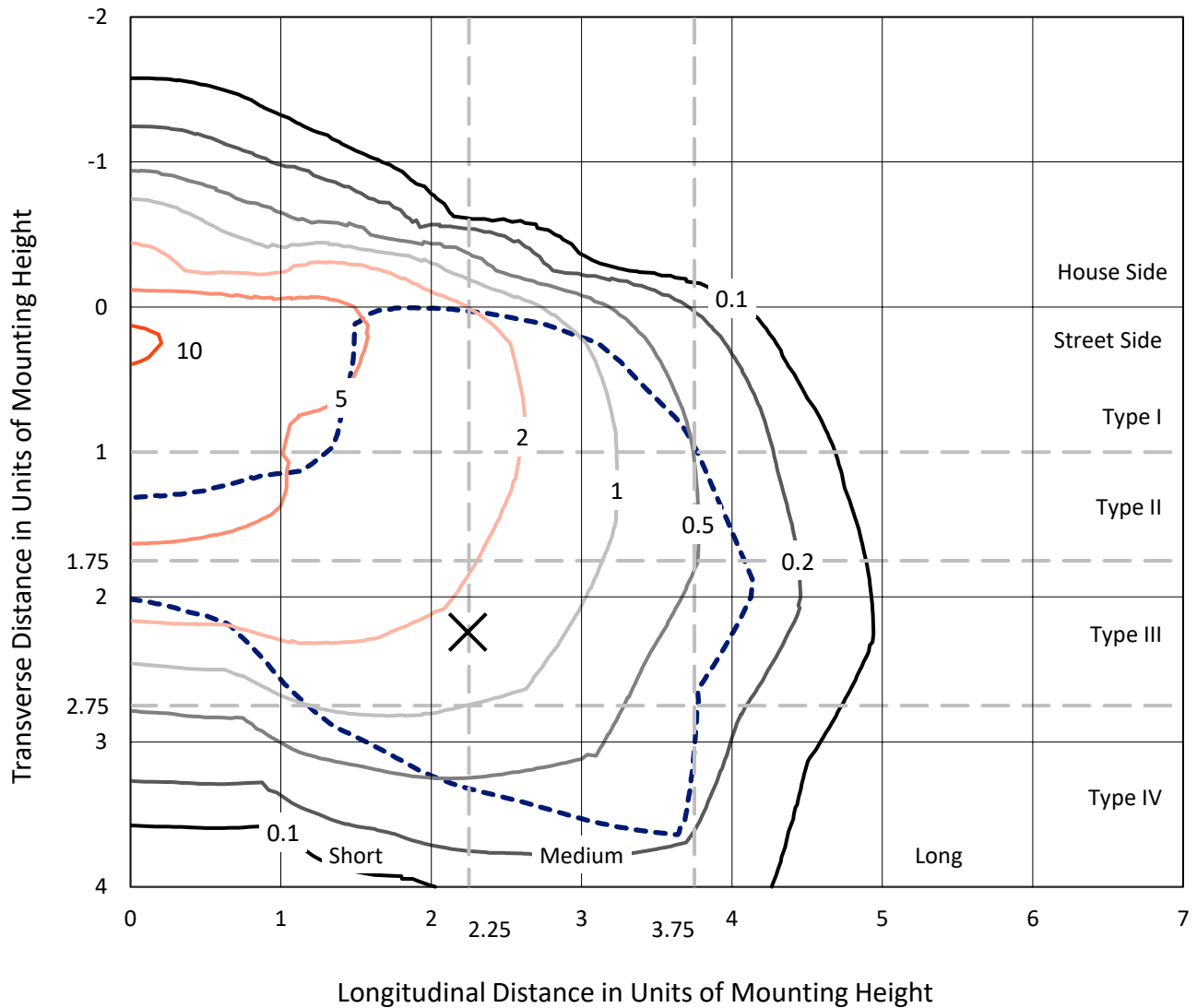
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

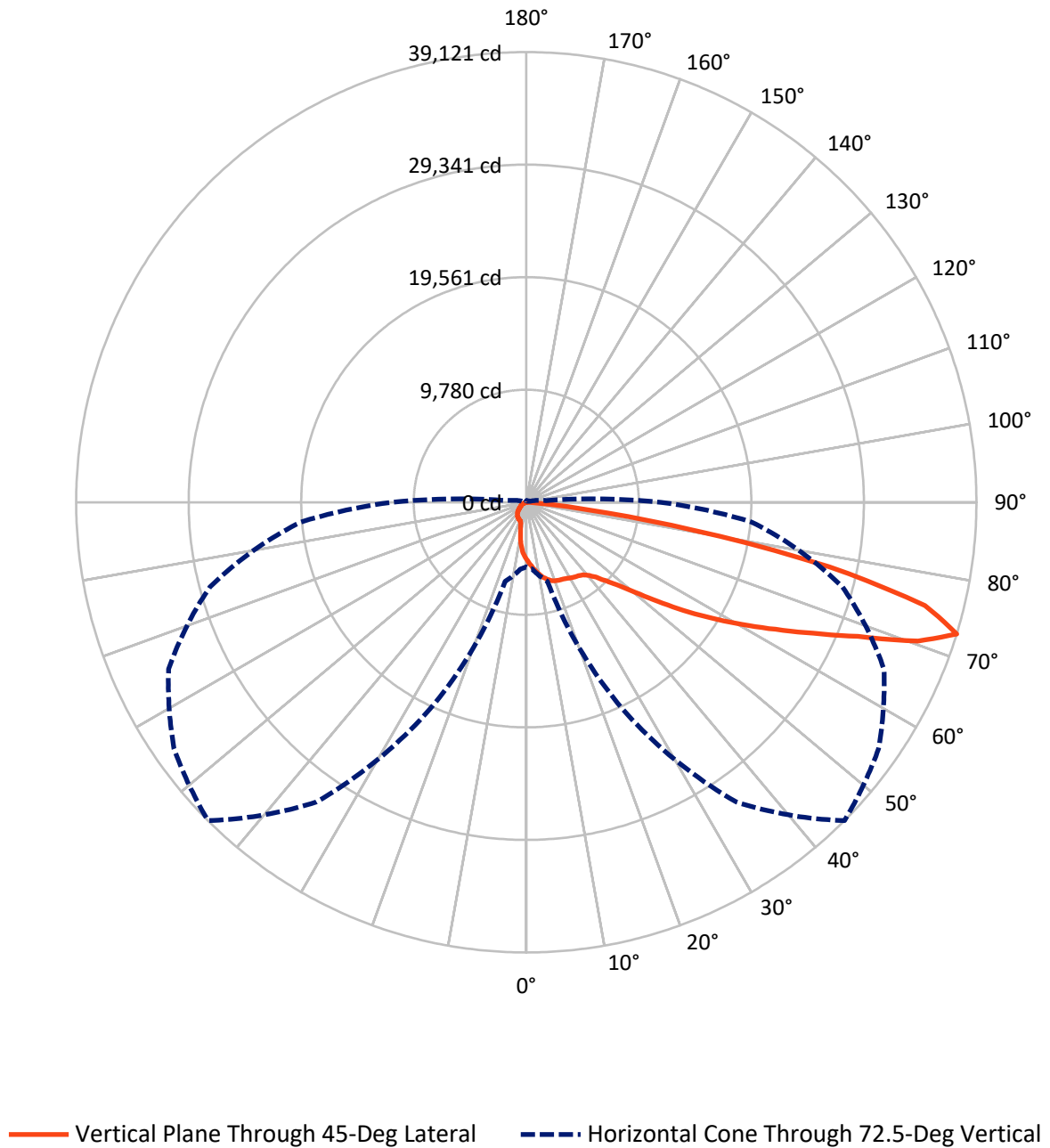
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4777.2	0.0	4777.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40688.8	0.0	40688.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	45466.0	0.0	45466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.3	1.0
10°-20°	1371.6	3.0
20°-30°	2252.3	5.0
30°-40°	3194.3	7.0
40°-50°	5279.9	11.6
50°-60°	9484.7	20.9
60°-70°	13170.1	29.0
70°-80°	9553.1	21.0
80°-90°	690.7	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°	45466.0	100.0
0°-180°	45466.0	100.0

Coefficient of Utilization



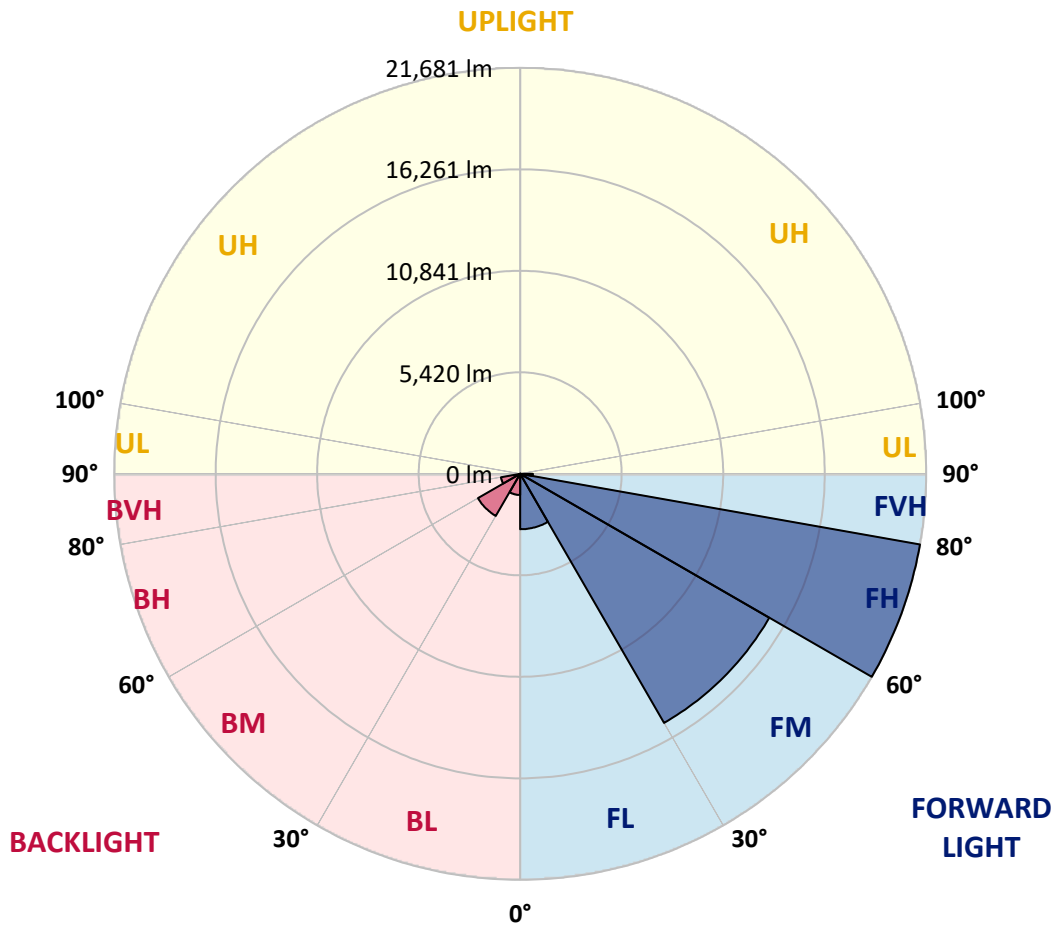
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.7	6.5			
FM (30°-60°)	15360.8	33.8			
FH (60°-80°)	21681.4	47.7			G5
FVH (80°-90°)	684.9	1.5			G4/750
BL (0°-30°)	1131.5	2.5	B3/2500		
BM (30°-60°)	2598.1	5.7	B3/5000		
BH (60°-80°)	1041.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9
2.5°	5440.2	5449.5	5443.3	5406.1	5344.0	5309.9	5291.2	5229.2	5188.8	5117.4
5°	5939.8	5977.1	5955.4	5880.9	5762.9	5679.2	5654.3	5527.1	5412.3	5278.8
7.5°	6470.5	6489.1	6448.8	6352.6	6194.3	6051.6	6029.8	5852.9	5669.8	5465.0
10°	6929.8	6951.5	6889.5	6749.8	6569.8	6392.9	6361.9	6166.4	5949.1	5697.8
12.5°	7314.6	7336.3	7255.7	7088.1	6889.5	6706.4	6675.3	6470.5	6231.6	5952.2
15°	7606.3	7646.7	7538.1	7358.1	7143.9	6960.8	6945.3	6743.6	6510.9	6200.5
17.5°	7777.0	7817.4	7715.0	7497.7	7314.6	7159.5	7140.8	6973.3	6756.0	6458.1
20°	7805.0	7842.2	7733.6	7544.3	7392.2	7268.1	7258.8	7137.7	6979.5	6694.0
22.5°	7721.2	7767.7	7668.4	7516.3	7410.8	7345.7	7333.2	7265.0	7175.0	6932.9
25°	7634.3	7671.5	7597.0	7463.6	7407.7	7401.5	7410.8	7398.4	7379.8	7175.0
27.5°	7628.1	7668.4	7584.6	7457.4	7426.3	7491.5	7500.8	7559.8	7575.3	7395.3
30°	7680.8	7708.8	7628.1	7494.6	7479.1	7628.1	7631.2	7736.7	7761.5	7581.5
32.5°	7795.6	7826.7	7746.0	7550.5	7528.8	7736.7	7746.0	7885.6	7926.0	7780.1
35°	8065.6	8102.9	8009.8	7705.6	7628.1	7839.1	7867.0	8031.5	8112.2	7991.2
37.5°	8739.1	8630.5	8503.2	8019.1	7854.6	8000.5	8047.0	8239.4	8382.2	8242.5
40°	10411.8	10070.4	9673.2	8552.9	8251.8	8344.9	8382.2	8574.6	8770.1	8633.6
42.5°	12922.4	12519.0	11879.7	9781.8	8850.8	8897.3	8925.3	9092.9	9369.1	9260.4
45°	15159.9	15014.1	14362.4	11879.7	9971.1	9741.5	9775.6	9862.5	10269.0	10228.7
47.5°	16879.2	16795.4	16292.7	14287.9	11864.2	10774.9	10871.1	10911.4	11498.0	11640.7
50°	18201.2	18170.2	17720.2	16429.2	14337.5	12298.6	12332.8	12245.9	13124.1	13477.9
52.5°	19448.8	19554.3	19222.2	18418.5	16978.5	14294.1	14287.9	13878.2	15063.7	15597.5
55°	20575.3	20612.5	20646.7	20448.1	19635.0	16565.7	16506.8	15836.5	17313.7	17866.1
57.5°	21633.5	21649.1	21953.2	22359.7	22400.1	19005.0	18896.4	18092.6	19771.5	20165.7
60°	22344.2	22415.6	23058.0	24187.6	24681.0	21521.8	21462.9	20643.6	22272.8	22455.9
62.5°	21320.1	21754.6	23374.5	25615.2	26834.8	24311.7	24283.8	23514.2	24904.5	24755.5
65°	17257.8	17993.3	20842.2	26580.3	28948.2	27427.5	27467.9	26648.6	27607.5	27123.4
67.5°	12072.1	12847.9	16218.2	26657.9	31309.8	31086.4	31319.1	30034.3	30478.1	29391.9
70°	8348.0	8748.4	10942.5	24988.3	33150.1	36126.2	36120.0	34192.8	33333.2	30425.4
72.5°	5614.0	5821.9	7106.7	19824.3	31797.1	39121.0	38941.0	37370.7	34295.3	28454.7
75°	2367.9	2519.9	3289.6	11141.1	25155.9	35791.1	35303.9	33026.0	30471.9	22406.3
77.5°	751.0	816.2	1297.2	3987.8	13856.5	26903.1	26387.9	20624.9	20423.2	11240.4
80°	356.9	415.9	729.3	1601.3	5452.6	14632.4	14561.0	9356.6	8785.6	3035.1
82.5°	155.2	183.1	403.4	856.5	2439.2	5219.9	5325.4	3184.1	2634.8	1151.3
85°	49.7	65.2	186.2	394.1	1030.3	1297.2	1281.7	757.2	1061.4	626.9
87.5°	0.0	0.0	62.1	90.0	105.5	74.5	83.8	65.2	294.8	173.8
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°
4980.9	0°	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9	4980.9
5043.0	2.5°	5005.7	4956.1	4869.2	4788.5	4717.1	4645.7	4602.3	4540.2	4534.0	4534.0
5123.7	5°	5039.9	4959.2	4804.0	4639.5	4450.2	4270.2	4090.2	3916.4	3860.6	3820.2
5254.0	7.5°	5139.2	5011.9	4766.8	4453.3	4093.3	3699.2	3423.0	3125.1	3010.3	2948.2
5427.8	10°	5281.9	5108.1	4735.7	4186.4	3603.0	3066.1	2672.0	2349.2	2225.1	2172.4
5617.1	12.5°	5440.2	5226.1	4679.9	3854.4	3066.1	2423.7	2038.9	1889.9	1871.3	1871.3
5843.6	15°	5629.5	5368.8	4583.7	3463.4	2504.4	1917.9	1781.3	1787.5	1806.2	1818.6
6064.0	17.5°	5825.0	5520.9	4431.6	3025.8	2007.9	1725.5	1728.6	1737.9	1753.4	1765.8
6302.9	20°	6036.0	5672.9	4229.9	2560.3	1722.4	1669.6	1678.9	1688.2	1700.6	1706.8
6526.4	22.5°	6262.6	5815.7	3990.9	2104.1	1626.2	1623.1	1626.2	1635.5	1651.0	1651.0
6787.1	25°	6504.6	5974.0	3717.8	1772.0	1576.5	1576.5	1582.7	1588.9	1601.3	1601.3
7038.4	27.5°	6752.9	6119.8	3429.2	1598.2	1533.1	1530.0	1530.0	1539.3	1545.5	1548.6
7286.7	30°	7026.0	6290.5	3140.6	1561.0	1498.9	1483.4	1474.1	1480.3	1486.5	1489.6
7547.4	32.5°	7305.3	6455.0	2883.0	1576.5	1464.8	1436.9	1405.8	1399.6	1399.6	1412.0
7817.4	35°	7615.7	6635.0	2684.4	1629.3	1446.2	1368.6	1318.9	1291.0	1294.1	1312.7
8140.1	37.5°	7988.1	6852.2	2538.6	1675.8	1433.8	1291.0	1210.3	1176.2	1154.5	1176.2
8583.9	40°	8475.3	7171.9	2433.0	1713.1	1418.2	1201.0	1092.4	1036.5	996.2	1008.6
9272.8	42.5°	9192.2	7674.6	2392.7	1716.2	1384.1	1095.5	971.4	896.9	837.9	841.0
10309.4	45°	10197.6	8469.1	2600.6	1675.8	1309.6	980.7	844.1	744.8	707.6	698.3
11857.9	47.5°	11575.5	9626.6	3081.6	1592.0	1201.0	868.9	720.0	636.2	608.3	592.7
13890.7	50°	13422.0	11113.1	3615.4	1498.9	1092.4	763.4	617.6	564.8	546.2	530.7
16302.0	52.5°	15563.4	12621.4	4053.0	1405.8	983.8	670.3	552.4	521.4	505.8	493.4
18629.5	55°	17527.8	13661.0	4028.2	1306.5	878.3	595.8	505.8	487.2	468.6	456.2
20634.3	57.5°	18750.5	13806.9	3320.6	1197.9	757.2	536.9	462.4	450.0	428.3	412.7
22369.0	60°	19312.2	12975.2	2327.5	1055.1	636.2	481.0	415.9	409.6	381.7	360.0
24010.7	62.5°	19414.6	11429.7	1551.7	878.3	530.7	428.3	369.3	360.0	322.7	285.5
25345.2	65°	18998.8	9220.1	1073.8	685.8	453.1	372.4	316.5	297.9	257.6	220.3
25661.7	67.5°	17683.0	6473.6	747.9	493.4	384.8	294.8	251.4	245.2	214.1	183.1
24048.0	70°	15271.6	3689.9	499.6	369.3	304.1	201.7	198.6	204.8	173.8	149.0
19647.4	72.5°	11709.0	1688.2	310.3	270.0	207.9	136.5	158.3	161.4	133.4	111.7
12258.3	75°	6892.6	723.1	195.5	173.8	105.5	90.0	114.8	117.9	90.0	71.4
4481.3	77.5°	2346.1	273.1	124.1	102.4	52.8	49.7	74.5	74.5	49.7	27.9
900.0	80°	533.8	102.4	62.1	40.3	24.8	21.7	24.8	21.7	12.4	3.1
276.2	82.5°	152.1	40.3	24.8	15.5	9.3	9.3	3.1	0.0	0.0	0.0
96.2	85°	43.4	18.6	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
34.1	87.5°	18.6	3.1	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>
4980.9
4549.5
3838.9
2957.5
2172.4
1871.3
1818.6
1765.8
1710.0
1657.2
1604.4
1551.7
1495.8
1421.3
1322.0
1170.0
1002.4
828.6
685.8
583.4
527.6
490.3
450.0
409.6
353.8
266.9
207.9
173.8
136.5
99.3
62.1
21.7
0.0
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