

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: P956693

Luminaire Tested: **GALN-SB9B-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956693  
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-SB9B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

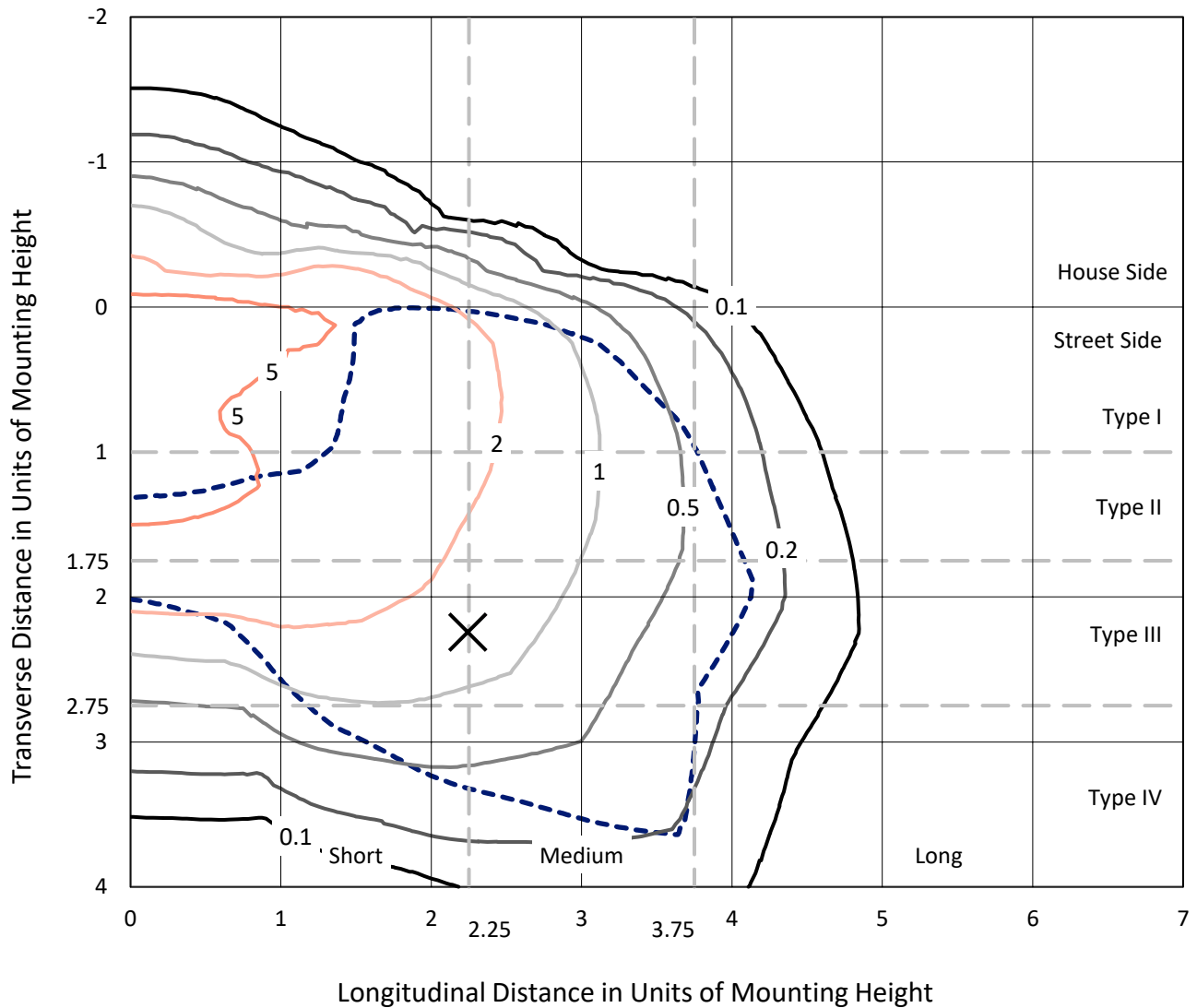
Lumens per Lamp: N/A  
Luminaire Lumens: 39508 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

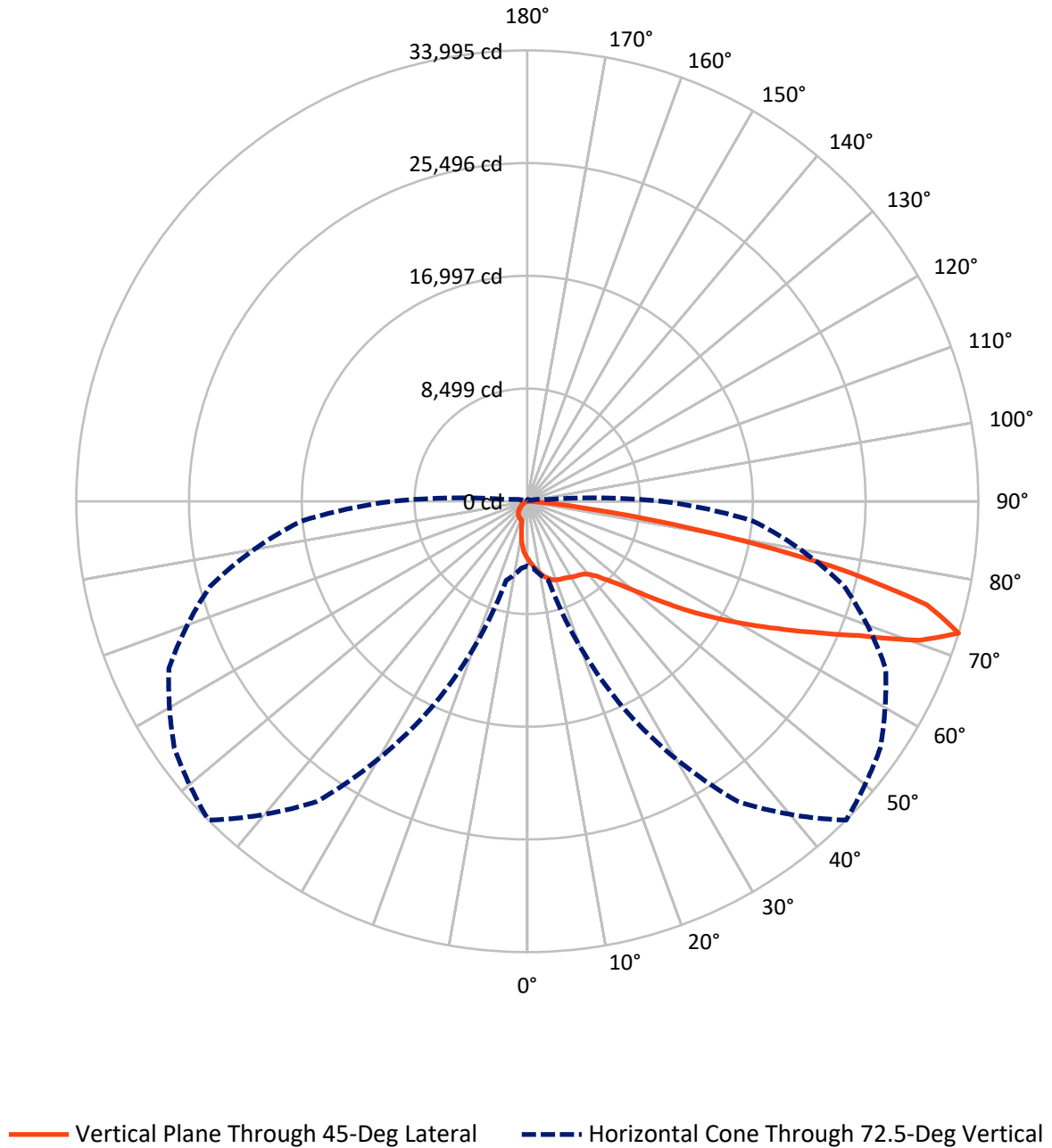
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4151.2	0.0	4151.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	35356.8	0.0	35356.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	39508.0	0.0	39508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.8	1.0
10°-20°	1191.8	3.0
20°-30°	1957.2	5.0
30°-40°	2775.7	7.0
40°-50°	4588.0	11.6
50°-60°	8241.8	20.9
60°-70°	11444.2	29.0
70°-80°	8301.3	21.0
80°-90°	600.2	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°	39508.0	100.0
0°-180°	39508.0	100.0

**Coefficient of Utilization**



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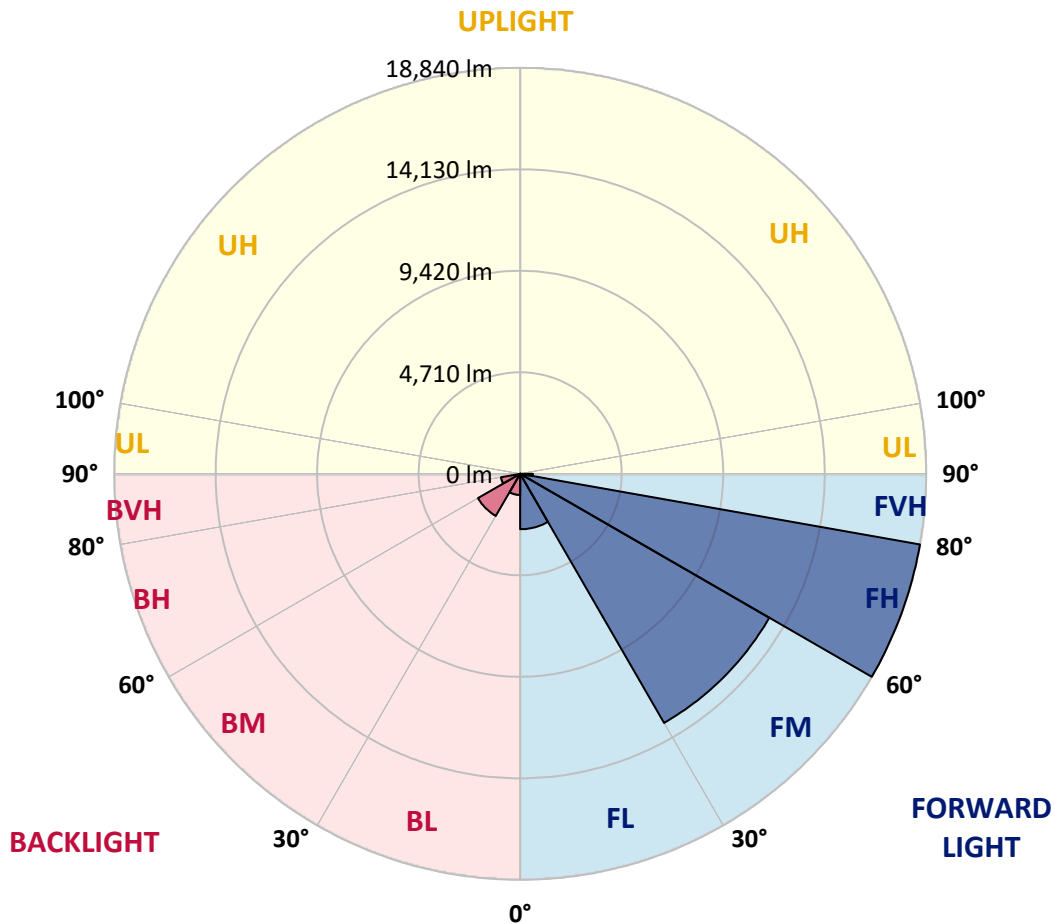
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.6	6.5			
FM (30°-60°)	13347.9	33.8			
FH (60°-80°)	18840.2	47.7			G5
FVH (80°-90°)	595.1	1.5			G4/750
BL (0°-30°)	983.3	2.5	B2/1000		
BM (30°-60°)	2257.7	5.7	B2/2500		
BH (60°-80°)	905.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2
2.5°	4727.3	4735.4	4730.0	4697.6	4643.7	4614.0	4597.9	4543.9	4508.9	4446.8
5°	5161.5	5193.8	5174.9	5110.2	5007.8	4934.9	4913.4	4802.8	4703.0	4587.1
7.5°	5622.6	5638.8	5603.7	5520.1	5382.6	5258.5	5239.7	5086.0	4926.9	4748.9
10°	6021.7	6040.6	5986.6	5865.3	5708.9	5555.2	5528.2	5358.3	5169.6	4951.1
12.5°	6356.1	6375.0	6304.9	6159.2	5986.6	5827.5	5800.6	5622.6	5415.0	5172.2
15°	6609.6	6644.6	6550.3	6393.8	6207.8	6048.7	6035.2	5859.9	5657.7	5388.0
17.5°	6757.9	6793.0	6704.0	6515.2	6356.1	6221.3	6205.1	6059.5	5870.7	5611.8
20°	6782.2	6814.5	6720.1	6555.7	6423.5	6315.6	6307.6	6202.4	6064.9	5816.8
22.5°	6709.4	6749.8	6663.5	6531.4	6439.7	6383.1	6372.3	6312.9	6234.7	6024.4
25°	6633.9	6666.2	6601.5	6485.5	6437.0	6431.6	6439.7	6428.9	6412.7	6234.7
27.5°	6628.5	6663.5	6590.7	6480.1	6453.2	6509.8	6517.9	6569.1	6582.6	6426.2
30°	6674.3	6698.6	6628.5	6512.5	6499.0	6628.5	6631.2	6722.8	6744.4	6588.0
32.5°	6774.1	6801.0	6730.9	6561.0	6542.2	6722.8	6730.9	6852.3	6887.3	6760.6
35°	7008.7	7041.1	6960.2	6695.9	6628.5	6811.8	6836.1	6979.0	7049.1	6944.0
37.5°	7593.9	7499.5	7388.9	6968.2	6825.3	6952.1	6992.5	7159.7	7283.8	7162.4
40°	9047.4	8750.8	8405.6	7432.1	7170.5	7251.4	7283.8	7451.0	7620.8	7502.2
42.5°	11229.0	10878.4	10322.9	8500.0	7691.0	7731.4	7755.7	7901.3	8141.3	8046.9
45°	13173.3	13046.6	12480.3	10322.9	8664.5	8464.9	8494.6	8570.1	8923.3	8888.3
47.5°	14667.3	14594.5	14157.6	12415.6	10309.4	9362.9	9446.5	9481.6	9991.2	10115.3
50°	15816.1	15789.1	15398.1	14276.3	12458.7	10687.0	10716.6	10641.1	11404.3	11711.7
52.5°	16900.1	16991.8	16703.3	16004.8	14753.6	12420.9	12415.6	12059.6	13089.7	13553.6
55°	17879.0	17911.4	17941.1	17768.5	17061.9	14394.9	14343.7	13761.2	15044.8	15524.8
57.5°	18798.6	18812.1	19076.4	19429.6	19464.7	16514.5	16420.1	15721.7	17180.6	17523.1
60°	19416.2	19478.2	20036.4	21018.0	21446.8	18701.5	18650.3	17938.4	19354.1	19513.2
62.5°	18526.3	18903.8	20311.5	22258.5	23318.3	21125.9	21101.6	20432.8	21640.9	21511.5
65°	14996.3	15635.4	18111.0	23097.1	25154.7	23833.3	23868.4	23156.5	23989.7	23569.1
67.5°	10490.1	11164.3	14092.9	23164.6	27206.9	27012.7	27215.0	26098.6	26484.2	25540.3
70°	7254.1	7602.0	9508.5	21713.7	28806.0	31392.2	31386.8	29712.1	28965.1	26438.3
72.5°	4878.3	5059.0	6175.4	17226.4	27630.3	33994.5	33838.1	32473.5	29801.1	24725.9
75°	2057.6	2189.7	2858.5	9681.1	21859.4	31100.9	30677.5	28698.2	26478.8	19470.1
77.5°	652.6	709.2	1127.2	3465.2	12040.7	23377.6	22929.9	17922.2	17746.9	9767.4
80°	310.1	361.4	633.7	1391.5	4738.1	12714.9	12652.9	8130.5	7634.3	2637.4
82.5°	134.8	159.1	350.6	744.3	2119.6	4535.8	4627.5	2766.8	2289.5	1000.5
85°	43.1	56.6	161.8	342.5	895.3	1127.2	1113.7	658.0	922.3	544.7
87.5°	0.0	0.0	53.9	78.2	91.7	64.7	72.8	56.6	256.2	151.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4328.2	0°	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2	4328.2
4382.1	2.5°	4349.8	4306.6	4231.1	4161.0	4099.0	4036.9	3999.2	3945.3	3939.9	3939.9
4452.2	5°	4379.4	4309.3	4174.5	4031.5	3867.1	3710.6	3554.2	3403.2	3354.7	3319.6
4565.5	7.5°	4465.7	4355.2	4142.1	3869.7	3556.9	3214.5	2974.4	2715.6	2615.8	2561.9
4716.5	10°	4589.8	4438.7	4115.1	3637.8	3130.9	2664.3	2321.8	2041.4	1933.5	1887.7
4881.0	12.5°	4727.3	4541.2	4066.6	3349.3	2664.3	2106.1	1771.7	1642.3	1626.1	1626.1
5077.9	15°	4891.8	4665.3	3983.0	3009.5	2176.2	1666.6	1547.9	1553.3	1569.5	1580.3
5269.3	17.5°	5061.7	4797.4	3850.9	2629.3	1744.8	1499.4	1502.1	1510.1	1523.6	1534.4
5477.0	20°	5245.1	4929.5	3675.6	2224.8	1496.7	1450.8	1458.9	1467.0	1477.8	1483.2
5671.1	22.5°	5441.9	5053.6	3467.9	1828.4	1413.1	1410.4	1413.1	1421.2	1434.6	1434.6
5897.7	25°	5652.3	5191.1	3230.6	1539.8	1369.9	1369.9	1375.3	1380.7	1391.5	1391.5
6116.1	27.5°	5868.0	5317.9	2979.8	1388.8	1332.2	1329.5	1329.5	1337.6	1343.0	1345.6
6331.8	30°	6105.3	5466.2	2729.0	1356.4	1302.5	1289.0	1280.9	1286.3	1291.7	1294.4
6558.3	32.5°	6348.0	5609.1	2505.2	1369.9	1272.8	1248.6	1221.6	1216.2	1216.2	1227.0
6793.0	35°	6617.7	5765.5	2332.6	1415.8	1256.7	1189.2	1146.1	1121.8	1124.5	1140.7
7073.4	37.5°	6941.3	5954.3	2205.9	1456.2	1245.9	1121.8	1051.7	1022.0	1003.2	1022.0
7459.0	40°	7364.7	6232.0	2114.2	1488.6	1232.4	1043.6	949.2	900.7	865.6	876.4
8057.7	42.5°	7987.6	6668.9	2079.1	1491.3	1202.7	951.9	844.1	779.3	728.1	730.8
8958.4	45°	8861.3	7359.3	2259.8	1456.2	1138.0	852.2	733.5	647.2	614.8	606.8
10304.0	47.5°	10058.6	8365.1	2677.8	1383.4	1043.6	755.1	625.6	552.8	528.6	515.1
12070.4	50°	11663.2	9656.8	3141.6	1302.5	949.2	663.4	536.6	490.8	474.6	461.1
14165.7	52.5°	13523.9	10967.4	3521.9	1221.6	854.9	582.5	480.0	453.0	439.6	428.8
16188.2	55°	15230.9	11870.8	3500.3	1135.3	763.2	517.8	439.6	423.4	407.2	396.4
17930.3	57.5°	16293.4	11997.6	2885.5	1040.9	658.0	466.5	401.8	391.0	372.1	358.7
19437.7	60°	16781.5	11274.9	2022.5	916.9	552.8	418.0	361.4	356.0	331.7	312.8
20864.3	62.5°	16870.5	9931.9	1348.3	763.2	461.1	372.1	320.9	312.8	280.5	248.1
22023.9	65°	16509.1	8011.9	933.1	596.0	393.7	323.6	275.1	258.9	223.8	191.5
22298.9	67.5°	15365.7	5625.3	649.9	428.8	334.4	256.2	218.4	213.0	186.1	159.1
20896.6	70°	13270.4	3206.4	434.2	320.9	264.3	175.3	172.6	178.0	151.0	129.4
17072.7	72.5°	10174.6	1467.0	269.7	234.6	180.7	118.7	137.5	140.2	116.0	97.1
10651.9	75°	5989.3	628.3	169.9	151.0	91.7	78.2	99.8	102.5	78.2	62.0
3894.0	77.5°	2038.7	237.3	107.9	89.0	45.8	43.1	64.7	64.7	43.1	24.3
782.0	80°	463.8	89.0	53.9	35.1	21.6	18.9	21.6	18.9	10.8	2.7
240.0	82.5°	132.1	35.1	21.6	13.5	8.1	8.1	2.7	0.0	0.0	0.0
83.6	85°	37.8	16.2	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
29.7	87.5°	16.2	2.7	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>
4328.2
3953.3
3335.8
2569.9
1887.7
1626.1
1580.3
1534.4
1485.9
1440.0
1394.2
1348.3
1299.8
1235.1
1148.8
1016.7
871.0
720.0
596.0
507.0
458.4
426.1
391.0
356.0
307.4
231.9
180.7
151.0
118.7
86.3
53.9
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