

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: P950485

Luminaire Tested: **GALN-SB4D-935-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-935-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28199 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

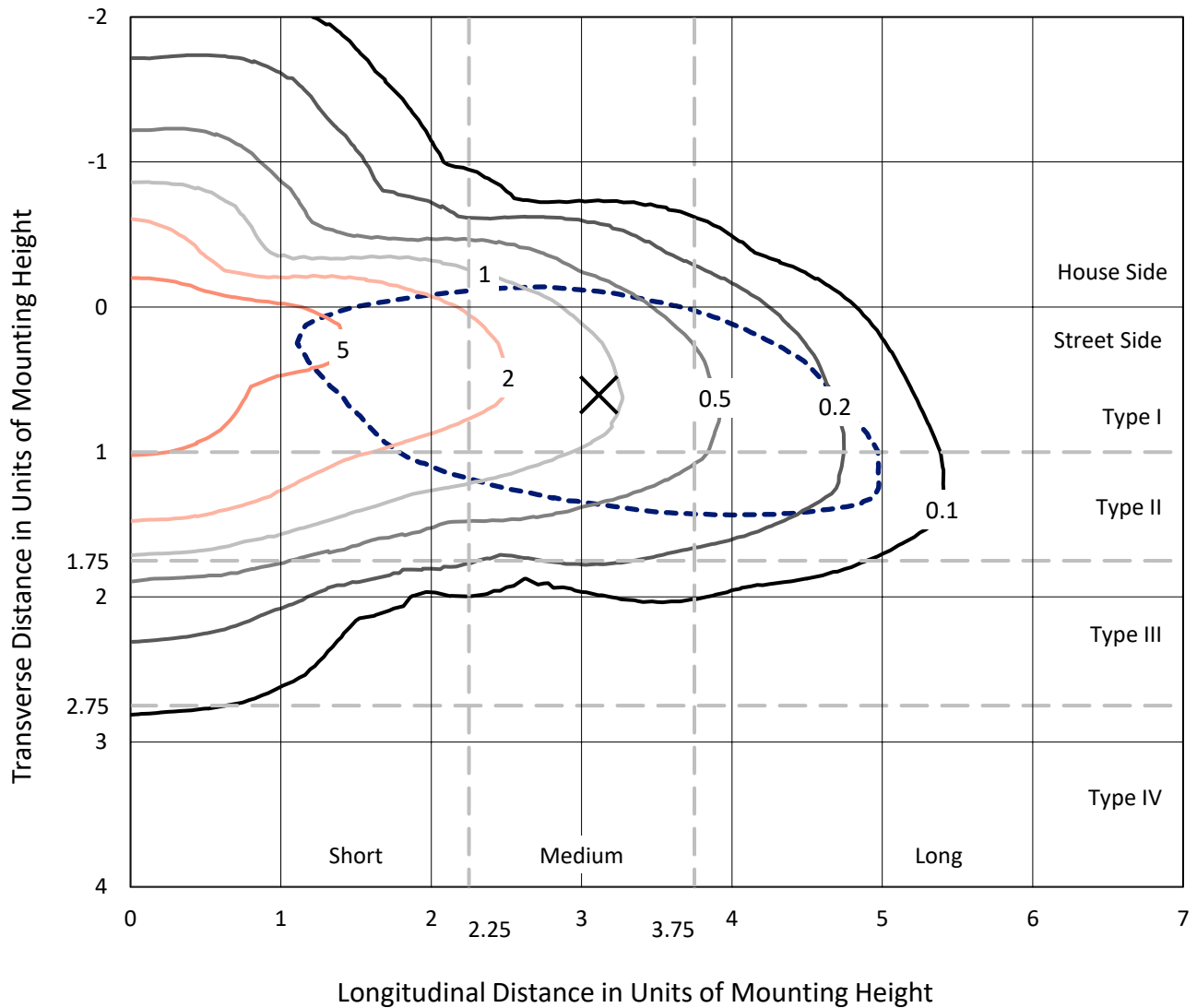
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

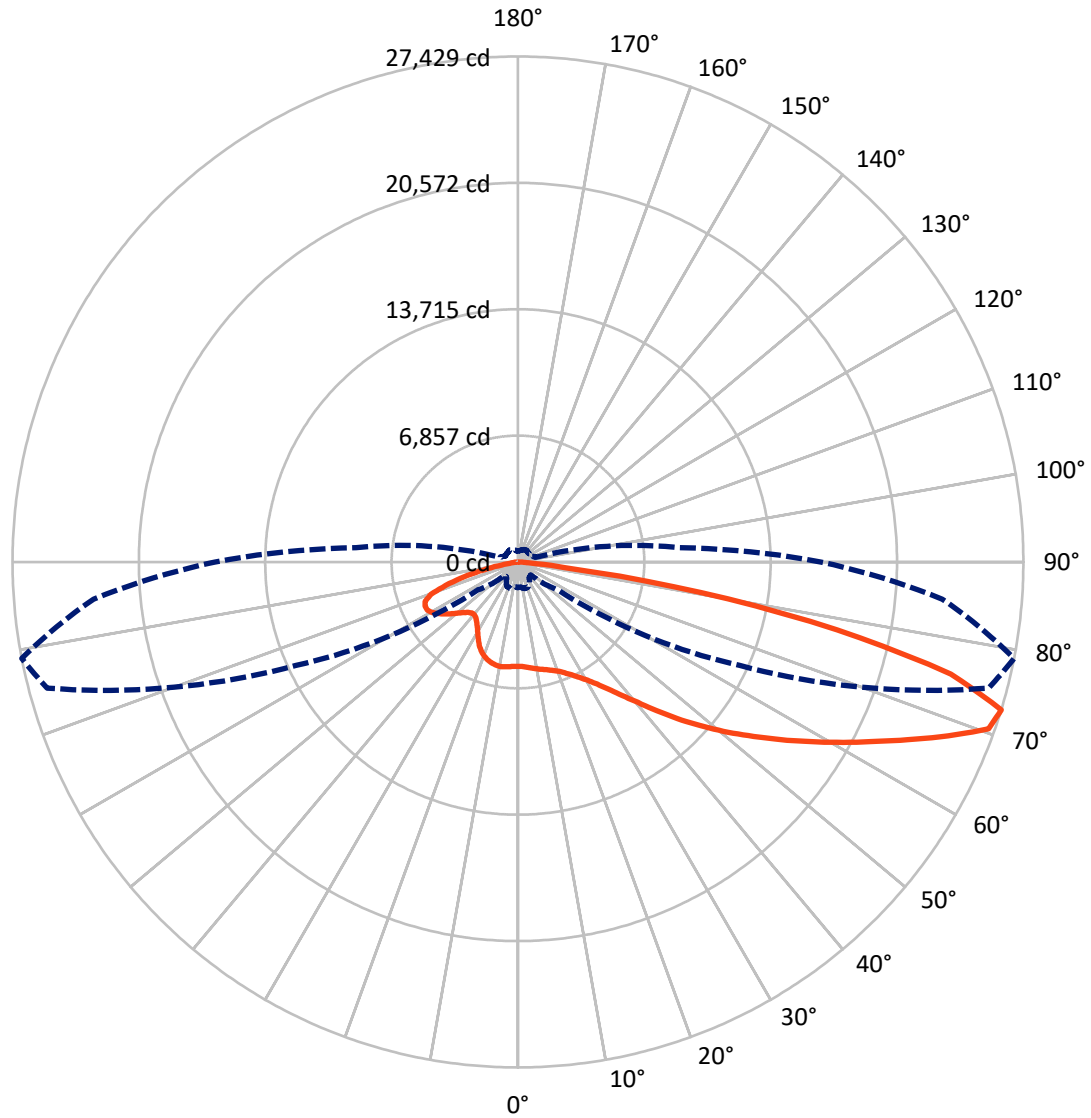
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6205.3	0.0	6205.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21993.7	0.0	21993.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	28199.0	0.0	28199.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	1.8
10°-20°	1343.4	4.8
20°-30°	2167.7	7.7
30°-40°	3253.4	11.5
40°-50°	4615.1	16.4
50°-60°	5828.3	20.7
60°-70°	5919.4	21.0
70°-80°	4034.4	14.3
80°-90°	523.4	1.9
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°	28199.0	100.0
0°-180°	28199.0	100.0



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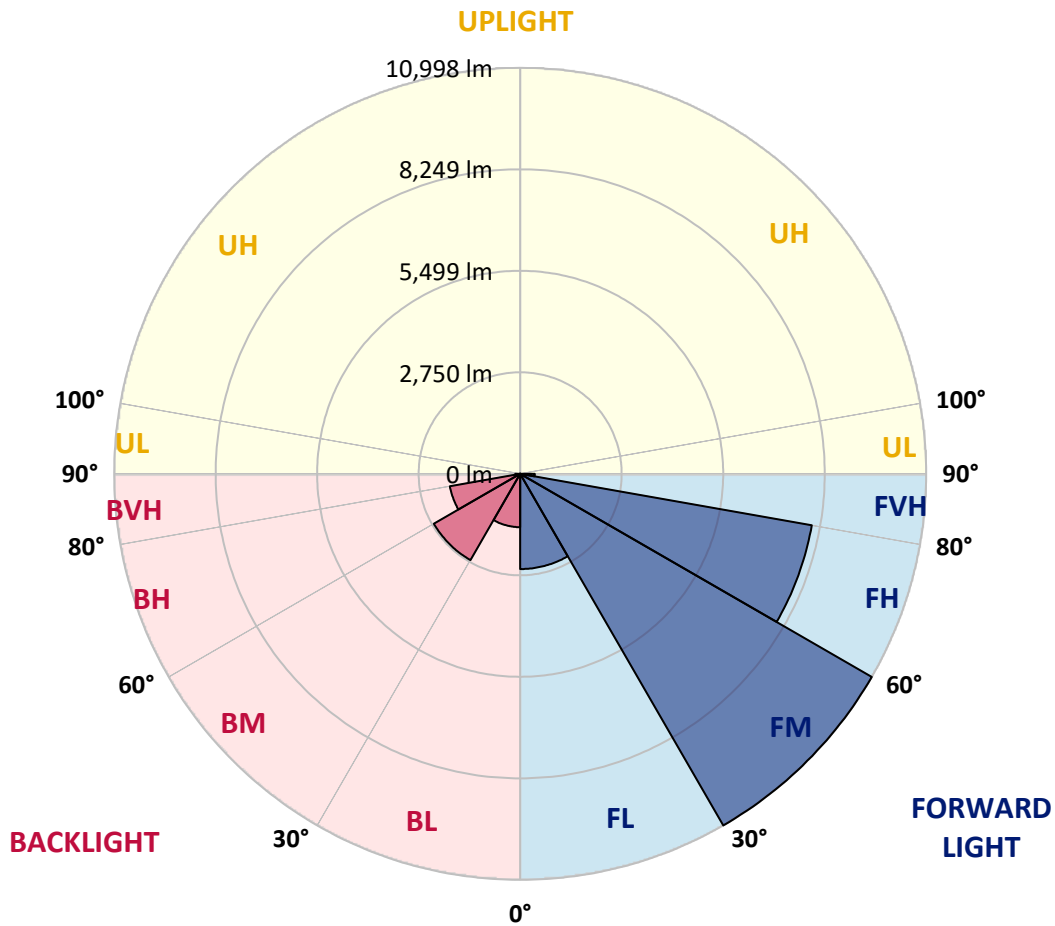
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.5	9.1			
FM (30°-60°)	10998.2	39.0			
FH (60°-80°)	8021.7	28.4			G4/12000
FVH (80°-90°)	394.3	1.4			G3/500
BL (0°-30°)	1445.4	5.1	B3/2500		
BM (30°-60°)	2698.7	9.6	B3/5000		
BH (60°-80°)	1932.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	129.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7
2.5°	5663.7	5636.8	5653.2	5647.3	5654.7	5663.7	5666.6	5671.1	5686.0	5684.5
5°	5651.7	5624.9	5647.3	5639.8	5659.2	5680.1	5698.0	5714.4	5738.2	5748.7
7.5°	5626.4	5608.5	5630.8	5653.2	5689.0	5720.3	5745.7	5783.0	5817.3	5823.3
10°	5478.7	5465.3	5517.5	5575.7	5674.1	5759.1	5814.3	5857.6	5894.9	5900.8
12.5°	5325.1	5308.7	5366.8	5445.9	5605.5	5759.1	5875.5	5932.2	5965.0	5984.4
15°	5299.7	5286.3	5319.1	5387.7	5520.5	5718.9	5917.2	6021.7	6050.0	6072.4
17.5°	5422.0	5396.7	5410.1	5434.0	5511.5	5681.6	5950.1	6123.1	6166.3	6190.2
20°	5705.4	5669.6	5648.7	5601.0	5587.6	5687.5	5947.1	6245.4	6302.1	6331.9
22.5°	6082.8	6058.9	6014.2	5893.4	5762.1	5760.6	6003.8	6402.0	6507.9	6536.3
25°	6539.2	6503.4	6446.8	6282.7	6030.6	5905.3	6099.2	6601.9	6779.4	6786.9
27.5°	7064.3	7010.6	6933.0	6716.7	6376.7	6132.0	6245.4	6831.6	7091.1	7088.2
30°	7617.7	7564.0	7481.9	7219.4	6791.3	6437.8	6448.3	7079.2	7461.1	7444.7
32.5°	8021.9	7981.6	7965.2	7762.4	7268.6	6798.8	6680.9	7353.7	7917.5	7902.6
35°	8332.2	8280.0	8299.3	8196.4	7789.2	7203.0	6965.8	7680.3	8472.4	8470.9
37.5°	8639.4	8593.2	8609.6	8541.0	8271.0	7716.1	7313.4	8080.1	9160.0	9192.8
40°	8919.9	8870.6	8936.3	8872.1	8645.4	8262.1	7708.7	8532.0	9956.5	10019.2
42.5°	9088.4	9049.6	9158.5	9160.0	8970.6	8723.0	8142.7	9030.2	10878.4	11018.6
45°	9146.6	9133.2	9297.2	9331.5	9258.5	8990.0	8533.5	9573.2	11871.8	12122.4
47.5°	9083.9	9058.6	9285.3	9412.1	9470.3	9115.3	8857.2	10160.9	12886.1	13253.0
50°	8767.7	8718.5	9055.6	9322.6	9529.9	9197.3	9183.9	10839.6	14039.1	14440.3
52.5°	8199.4	8162.1	8545.5	9009.4	9398.7	9237.6	9550.8	11580.9	15133.9	15653.0
55°	7473.0	7423.8	7845.9	8451.5	9072.0	9224.2	9917.8	12410.2	16425.7	16952.2
57.5°	6321.5	6223.0	6757.0	7473.0	8539.5	9207.7	10299.6	13235.1	17738.3	18369.2
60°	4641.9	4495.7	5150.5	5999.3	7498.4	9048.1	10772.4	14159.9	19313.4	19881.7
62.5°	2702.8	2617.8	3045.9	3837.9	5651.7	8108.4	11038.0	15235.4	20861.7	21458.4
65°	2098.7	2074.8	2112.1	2173.3	3145.8	6070.9	10219.1	16284.0	22830.7	23248.3
67.5°	1919.7	1901.8	1918.2	1803.4	1596.0	3381.5	8084.6	16549.5	24939.8	25193.4
70°	1706.4	1685.5	1739.2	1640.8	1255.9	1537.9	5223.6	15585.9	26617.9	27093.7
72.5°	1390.2	1366.3	1491.6	1446.9	1057.6	987.4	2623.8	13296.3	26441.9	27429.3
75°	1068.0	1054.6	1203.7	1241.0	862.2	777.1	1258.9	9883.4	23269.2	24264.1
77.5°	829.3	818.9	895.0	1030.7	695.1	602.6	774.1	6269.3	17535.4	17710.0
80°	622.0	592.2	662.3	798.0	541.5	440.0	525.0	3655.9	11084.2	10047.5
82.5°	389.3	374.4	432.6	532.5	381.9	302.8	341.6	2019.6	4442.0	2616.3
85°	222.3	216.3	235.7	304.3	207.3	174.5	195.4	892.0	811.4	557.9
87.5°	89.5	86.5	107.4	135.7	76.1	64.1	68.6	214.8	179.0	165.6
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°
5660.7	0°	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7	5660.7
5683.1	2.5°	5677.1	5677.1	5656.2	5623.4	5586.1	5562.2	5523.5	5513.0	5472.7	5460.8
5733.8	5°	5745.7	5733.8	5669.6	5577.2	5450.4	5334.0	5205.7	5125.2	5011.8	4971.6
5833.7	7.5°	5832.2	5799.4	5689.0	5486.2	5220.7	4959.6	4688.1	4482.3	4285.4	4215.3
5915.7	10°	5911.3	5865.0	5677.1	5322.1	4862.7	4410.7	3978.1	3675.3	3445.6	3351.7
6006.7	12.5°	5990.3	5905.3	5598.0	5049.1	4354.0	3741.0	3280.1	3044.4	2902.7	2789.3
6081.3	15°	6064.9	5945.6	5475.7	4683.7	3796.2	3174.2	2834.1	2646.1	2532.8	2458.2
6190.2	17.5°	6151.4	5979.9	5292.3	4219.8	3265.1	2781.9	2504.4	2391.1	2368.7	2359.7
6339.4	20°	6272.2	6011.2	5050.6	3700.7	2874.3	2468.6	2325.4	2315.0	2313.5	2309.0
6518.4	22.5°	6402.0	6048.5	4731.4	3229.3	2541.7	2273.2	2247.9	2227.0	2213.6	2212.1
6734.6	25°	6555.7	6060.4	4331.7	2843.0	2258.3	2180.7	2150.9	2119.6	2110.6	2110.6
6980.8	27.5°	6704.8	6020.2	3866.3	2507.4	2098.7	2095.7	2056.9	2046.5	2045.0	2049.5
7261.2	30°	6854.0	5944.1	3403.9	2197.1	2006.2	2006.2	1992.8	2000.3	2006.2	2021.1
7646.0	32.5°	7055.3	5863.5	3017.5	1967.4	1925.7	1910.8	1924.2	1939.1	1945.1	1964.5
8151.7	35°	7350.7	5806.9	2710.3	1842.1	1842.1	1822.8	1830.2	1827.2	1813.8	1804.9
8763.2	37.5°	7741.5	5803.9	2456.7	1784.0	1772.0	1769.1	1770.5	1751.2	1699.0	1636.3
9503.1	40°	8211.3	5884.4	2261.3	1743.7	1734.7	1752.6	1743.7	1691.5	1548.3	1439.4
10413.0	42.5°	8842.3	6114.1	2136.0	1694.5	1721.3	1743.7	1707.9	1527.4	1430.5	1357.4
11449.6	45°	9585.1	6487.0	2071.9	1642.3	1696.0	1722.8	1549.8	1470.7	1393.2	1305.2
12580.3	47.5°	10426.4	6956.9	2056.9	1593.0	1639.3	1655.7	1482.7	1446.9	1358.9	1263.4
13716.9	50°	11342.2	7513.3	2097.2	1534.9	1557.2	1500.6	1460.3	1427.5	1336.5	1242.5
14881.8	52.5°	12289.4	8126.3	2177.8	1455.8	1475.2	1412.6	1451.3	1423.0	1323.1	1196.3
16085.6	55°	13220.2	8743.9	2255.3	1363.3	1391.7	1333.5	1426.0	1405.1	1261.9	1118.7
17369.9	57.5°	14165.9	9358.4	2331.4	1281.3	1311.1	1257.4	1385.7	1357.4	1193.3	1047.1
18772.0	60°	15148.8	9955.0	2367.2	1202.2	1223.1	1187.3	1324.6	1275.3	1115.7	974.0
20150.2	62.5°	16069.2	10451.8	2309.0	1123.2	1136.6	1121.7	1244.0	1178.4	1038.2	892.0
21586.7	65°	16992.5	10747.1	2130.0	1045.6	1048.6	1041.1	1130.6	1074.0	947.2	820.4
22844.1	67.5°	17829.3	10912.7	1845.1	962.1	954.6	951.7	1024.7	960.6	859.2	748.8
23800.2	70°	18006.8	10492.0	1409.6	863.6	863.6	856.2	908.4	842.8	762.2	672.7
23115.6	72.5°	16446.6	8825.9	1000.9	751.8	763.7	748.8	792.0	736.9	663.8	604.1
19922.0	75°	13262.0	6472.1	727.9	636.9	657.8	632.4	672.7	633.9	571.3	569.8
13728.8	77.5°	9112.3	4002.0	528.0	525.0	540.0	507.1	553.4	532.5	475.8	450.5
5975.4	80°	3888.6	1596.0	384.8	405.7	405.7	375.9	429.6	435.6	386.3	374.4
1153.0	82.5°	774.1	453.5	270.0	278.9	262.5	253.6	304.3	337.1	465.4	517.6
347.5	85°	232.7	167.1	162.6	152.1	134.2	135.7	179.0	338.6	417.7	238.7
114.9	87.5°	64.1	41.8	43.3	34.3	28.3	37.3	61.2	256.6	140.2	59.7
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>
5660.7
5480.2
5001.4
4224.3
3372.5
2826.6
2471.6
2365.7
2323.9
2228.5
2119.6
2061.4
2031.6
1980.9
1825.7
1637.8
1436.4
1354.4
1299.2
1255.9
1232.1
1187.3
1111.3
1044.1
969.6
890.5
811.4
739.8
669.7
586.2
513.1
422.1
374.4
519.1
205.8
50.7
0.0

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