

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: P939542

Luminaire Tested: **GALN-SB2A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6444 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

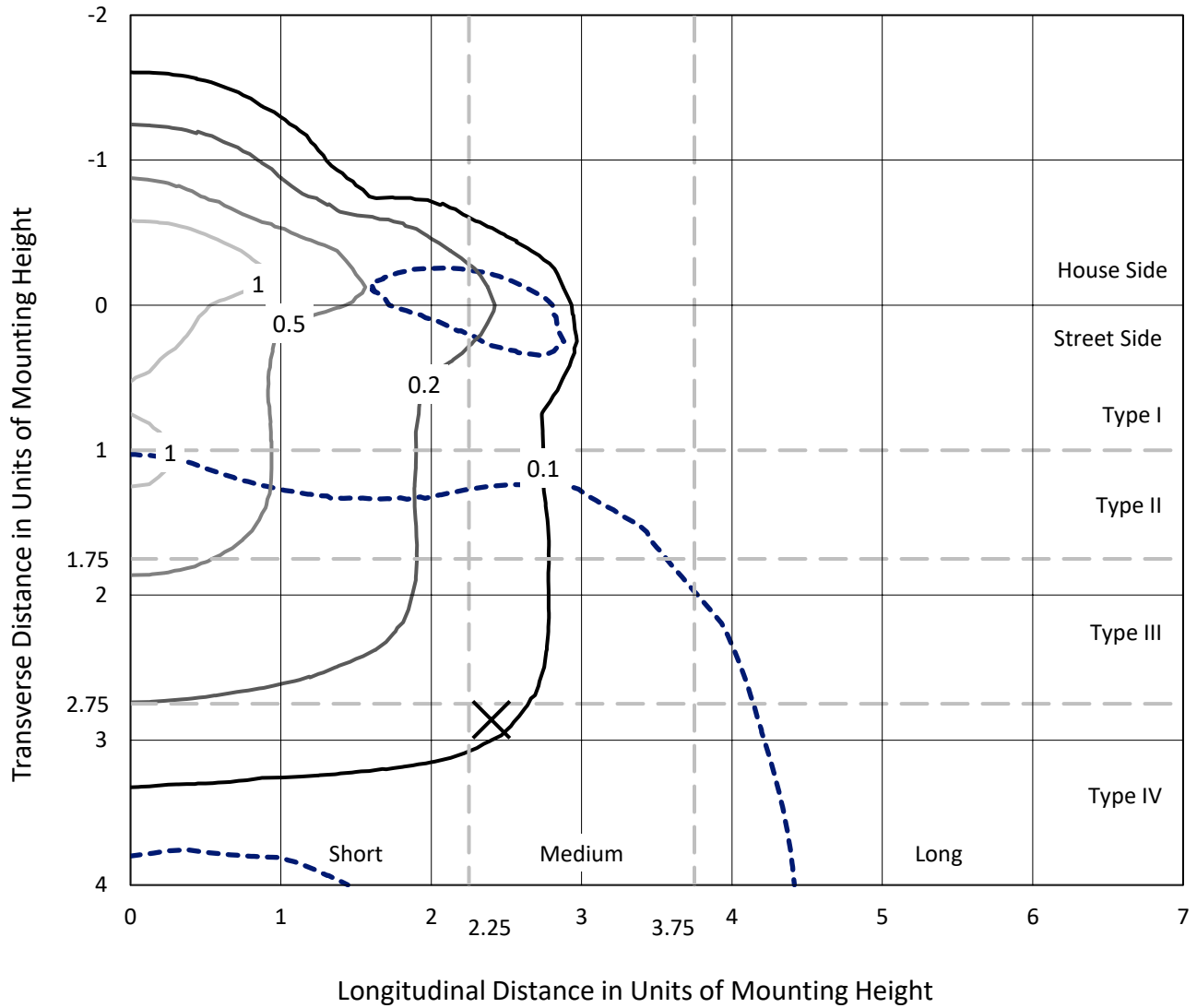
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

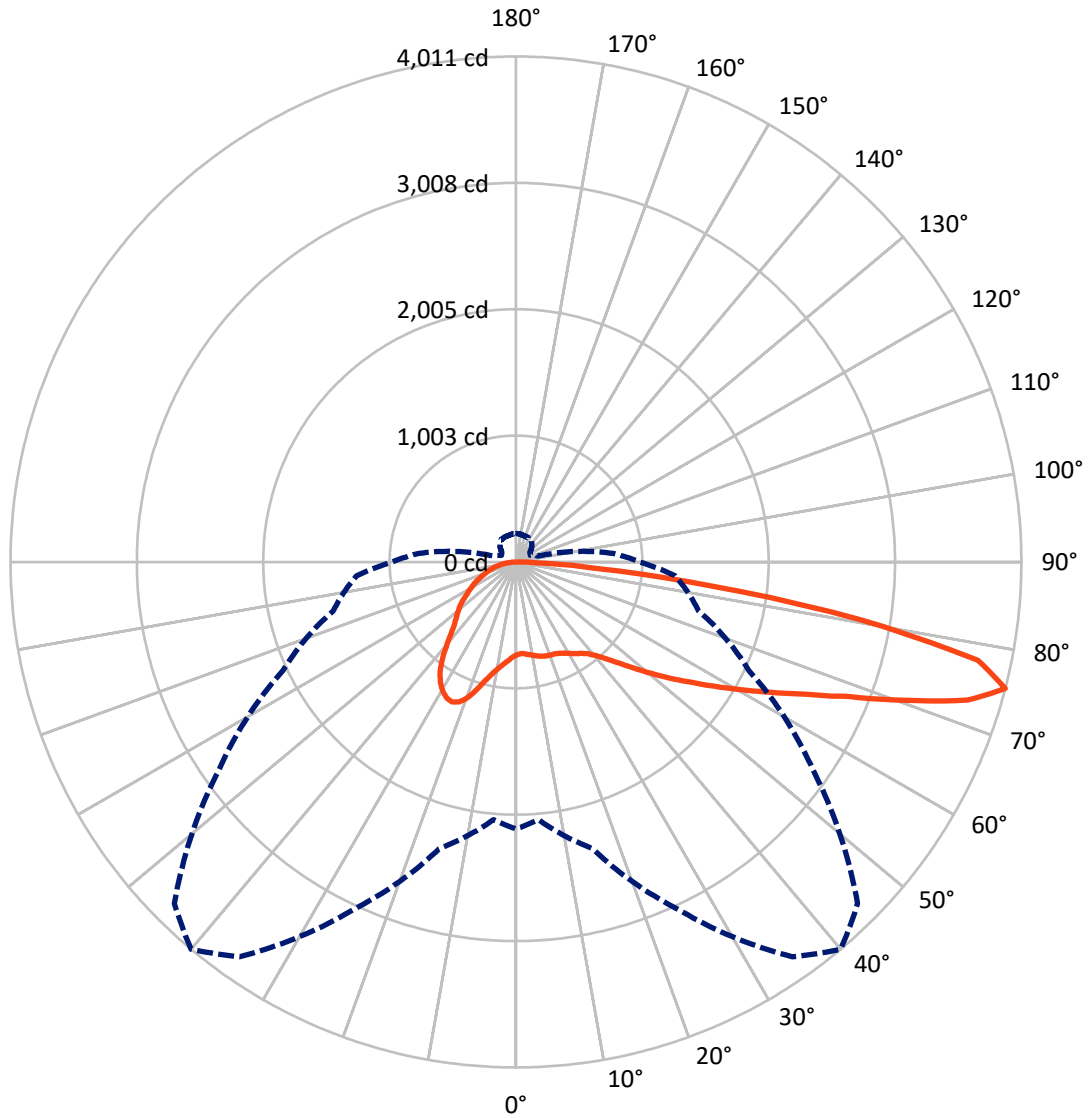
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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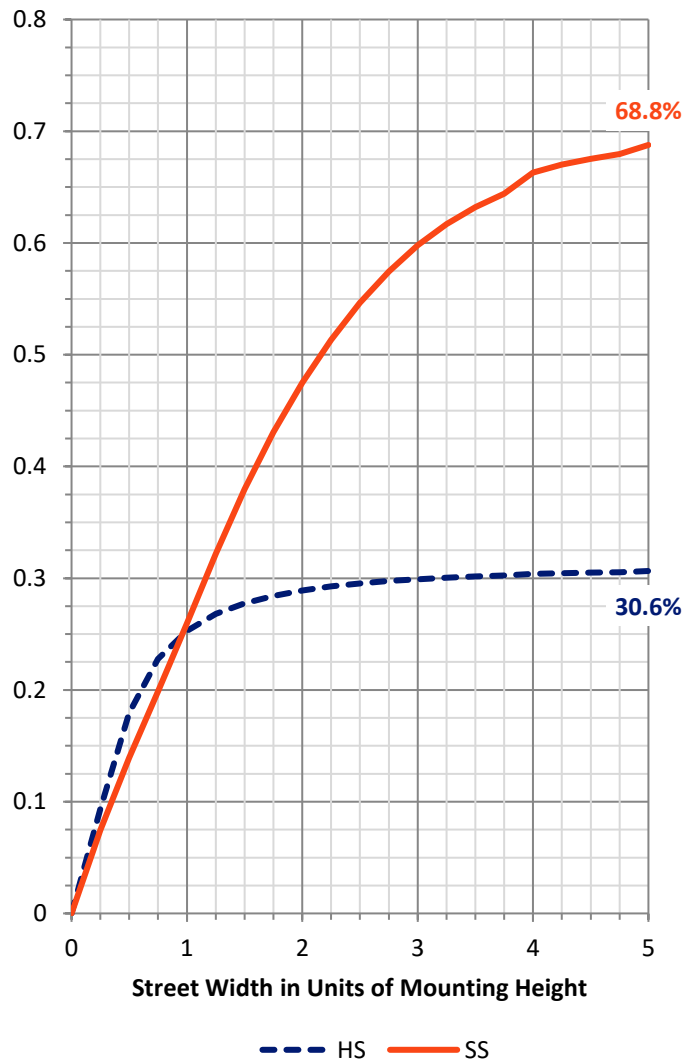
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1996.6	0.0	1996.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4447.4	0.0	4447.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	6444.0	0.0	6444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.1
10°-20°	247.0	3.8
20°-30°	450.9	7.0
30°-40°	639.5	9.9
40°-50°	863.6	13.4
50°-60°	1161.7	18.0
60°-70°	1474.5	22.9
70°-80°	1338.2	20.8
80°-90°	195.1	3.0
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°	6444.0	100.0
0°-180°	6444.0	100.0

Coefficient of Utilization



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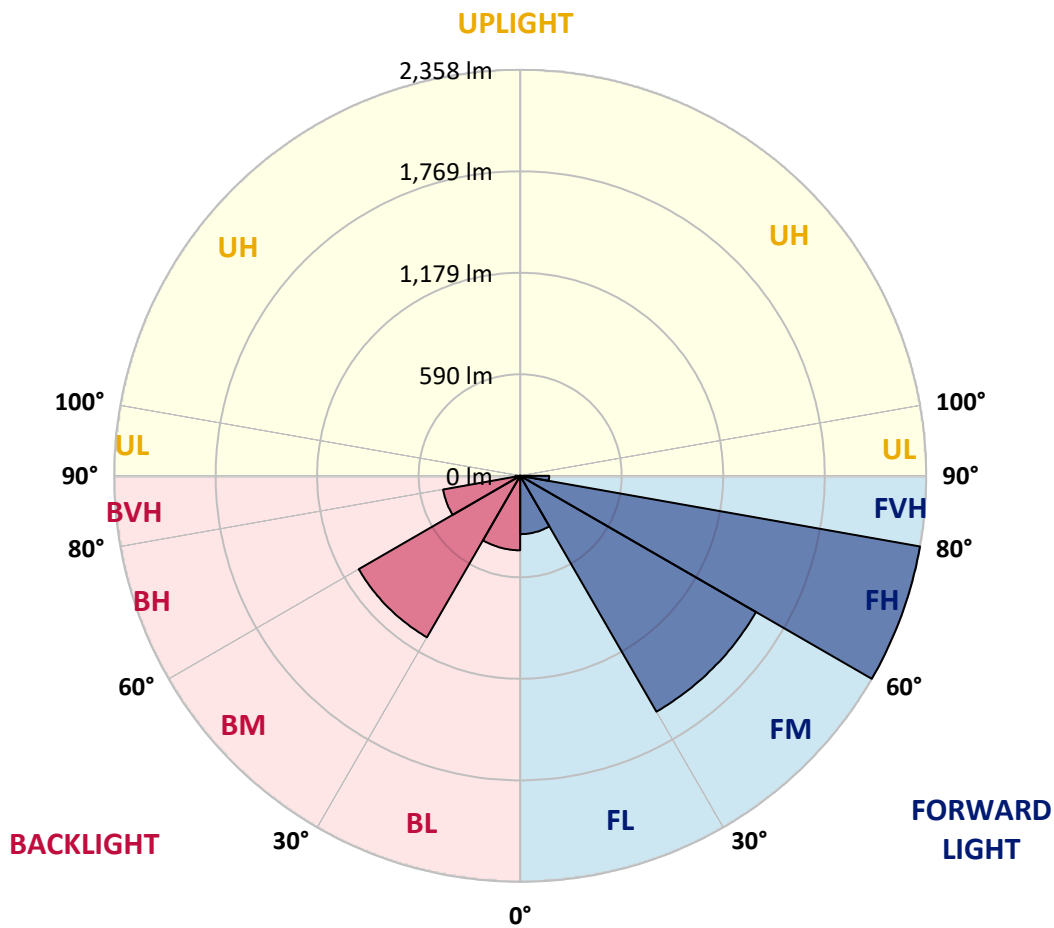
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.0	5.3			
FM (30°-60°)	1581.9	24.5			
FH (60°-80°)	2358.4	36.6			G2/5000
FVH (80°-90°)	168.2	2.6			G2/225
BL (0°-30°)	432.5	6.7	B1/500		
BM (30°-60°)	1083.0	16.8	B2/2500		
BH (60°-80°)	454.3	7.0	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9
2.5°	725.6	729.7	728.7	727.3	727.3	727.7	727.3	729.7	732.1	734.5
5°	733.1	737.2	735.2	733.5	732.1	731.8	730.7	730.4	731.8	734.8
7.5°	747.8	751.9	748.8	745.8	743.0	741.7	740.3	738.2	737.2	738.9
10°	764.2	768.3	764.6	759.1	754.7	752.9	751.6	749.5	748.2	749.2
12.5°	780.6	784.7	779.6	772.1	766.3	765.2	763.5	762.9	762.5	762.2
15°	796.0	799.4	792.9	784.0	777.9	776.2	774.5	775.5	777.2	779.3
17.5°	808.0	811.4	801.8	790.2	784.4	783.7	782.7	786.1	790.9	796.0
20°	818.9	822.3	810.0	794.3	787.5	787.5	787.8	795.0	801.8	809.3
22.5°	834.3	837.0	822.0	800.5	790.5	791.2	794.0	801.1	809.7	819.9
25°	857.2	859.2	840.8	812.1	800.8	802.8	805.2	808.7	816.9	828.8
27.5°	894.1	895.8	871.5	832.6	815.5	818.9	822.3	819.9	823.7	833.9
30°	946.1	947.1	916.3	864.7	840.4	842.1	842.8	832.9	825.7	833.9
32.5°	1007.6	1007.2	970.7	903.7	868.8	867.1	861.3	841.8	825.1	832.2
35°	1102.9	1099.2	1052.0	958.4	900.9	890.3	876.7	851.7	828.5	830.5
37.5°	1260.8	1249.2	1183.9	1047.9	948.8	921.8	901.6	867.8	836.0	829.8
40°	1438.9	1424.2	1352.4	1170.6	1020.6	977.2	944.7	890.7	848.3	832.9
42.5°	1650.1	1629.3	1552.0	1315.2	1111.5	1048.6	999.7	919.7	866.4	842.8
45°	1909.5	1881.8	1772.5	1478.2	1226.0	1142.2	1077.0	963.8	894.1	862.0
47.5°	2171.7	2178.5	2023.0	1664.8	1363.4	1257.8	1173.7	1030.1	934.4	892.7
50°	2450.2	2455.0	2272.2	1871.6	1519.2	1388.3	1282.4	1104.3	990.5	936.5
52.5°	2667.6	2668.3	2498.4	2087.9	1681.6	1531.9	1399.6	1189.1	1055.4	994.6
55°	2803.6	2801.9	2657.0	2292.7	1868.2	1682.6	1529.5	1285.4	1134.7	1062.9
57.5°	2902.4	2897.3	2766.4	2468.7	2067.1	1860.7	1676.4	1394.8	1228.4	1144.3
60°	2940.0	2936.9	2840.5	2620.8	2276.3	2057.5	1846.0	1517.2	1334.7	1240.3
62.5°	2954.4	2960.2	2913.3	2768.1	2500.1	2275.6	2032.2	1663.4	1454.3	1349.0
65°	3004.9	3015.5	3006.0	2960.8	2753.0	2530.9	2279.3	1837.4	1584.8	1465.6
67.5°	3105.1	3115.7	3119.8	3191.6	3062.0	2849.1	2587.6	2054.1	1737.6	1586.5
70°	3102.7	3099.6	3172.1	3375.1	3448.9	3289.6	3003.2	2320.7	1919.8	1687.0
72.5°	2824.1	2799.5	2970.8	3373.0	3770.9	3749.7	3510.8	2664.5	2077.0	1699.3
75°	2118.7	2053.1	2355.6	3039.8	3824.5	4010.8	3833.4	2877.8	2039.7	1501.4
77.5°	906.1	840.1	1196.6	2250.3	3422.9	3749.3	3537.4	2510.7	1628.2	992.9
80°	237.2	236.9	361.6	1020.2	2327.9	2768.8	2429.0	1621.4	930.3	354.8
82.5°	98.1	95.7	133.0	396.8	1137.4	1553.7	1268.0	723.2	336.0	96.0
85°	36.6	36.2	64.6	137.1	401.3	640.8	463.8	184.9	83.7	46.8
87.5°	10.3	9.9	14.0	47.5	97.7	148.3	79.3	30.4	23.6	18.5
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°
736.9	0°	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9
738.2	2.5°	739.3	741.0	744.1	746.4	749.5	752.9	757.7	760.8	763.9	765.9
740.0	5°	742.3	746.1	754.0	761.8	771.1	779.6	789.5	796.7	802.5	804.2
746.1	7.5°	749.2	755.3	768.7	782.0	796.7	810.7	825.1	837.4	847.3	851.0
757.0	10°	761.1	769.3	788.1	806.9	826.4	848.0	866.4	884.2	898.2	904.0
770.0	12.5°	776.2	786.4	811.0	837.0	864.0	893.8	917.7	939.6	957.0	964.8
788.1	15°	795.7	809.0	840.4	875.3	914.9	956.3	986.7	1011.0	1030.5	1040.0
806.9	17.5°	816.9	834.6	874.3	926.9	983.6	1038.0	1073.5	1091.3	1111.5	1120.7
824.4	20°	837.4	859.2	916.0	992.5	1068.1	1125.8	1154.5	1159.3	1160.7	1161.7
840.8	22.5°	858.6	887.9	968.3	1075.2	1156.2	1196.2	1200.3	1179.8	1151.1	1137.8
856.8	25°	881.8	920.8	1036.6	1166.5	1232.1	1236.9	1205.5	1155.6	1101.2	1076.3
869.8	27.5°	904.4	958.7	1118.6	1253.7	1286.8	1244.8	1177.1	1106.3	1040.7	1014.4
879.1	30°	926.9	1002.1	1209.2	1329.9	1311.8	1225.3	1132.3	1053.4	987.4	959.7
887.3	32.5°	949.8	1052.7	1313.5	1384.9	1307.3	1183.9	1076.6	993.9	935.8	906.7
894.4	35°	975.8	1114.9	1412.2	1415.0	1277.6	1123.1	1003.1	922.8	872.2	849.0
903.0	37.5°	1009.6	1193.8	1499.4	1422.5	1225.6	1033.9	911.9	838.7	797.0	786.4
915.6	40°	1051.7	1288.9	1566.0	1410.5	1148.7	925.5	812.1	753.6	730.0	732.4
932.7	42.5°	1106.3	1395.2	1612.9	1379.8	1041.7	813.8	724.6	698.6	709.9	719.4
958.4	45°	1177.4	1505.5	1641.9	1327.5	920.8	719.1	673.0	679.1	687.7	688.7
999.7	47.5°	1268.3	1617.3	1661.1	1248.5	797.4	652.5	640.2	641.5	639.8	632.6
1061.6	50°	1381.8	1726.0	1678.1	1143.9	692.4	610.8	594.4	589.6	566.0	542.7
1143.9	52.5°	1511.0	1825.8	1685.3	1014.1	610.8	575.9	549.2	519.2	475.1	467.9
1247.5	55°	1654.6	1918.1	1666.9	854.5	542.1	531.1	490.8	454.6	449.8	443.6
1383.9	57.5°	1826.1	2017.5	1629.3	676.4	471.7	478.8	439.5	443.6	435.1	425.5
1559.2	60°	2013.8	2120.4	1563.3	514.0	398.9	413.6	426.2	425.9	423.5	415.6
1744.1	62.5°	2182.6	2188.1	1433.4	393.7	334.9	363.0	397.5	397.1	395.1	390.7
1937.2	65°	2283.1	2177.8	1216.7	310.0	282.3	321.3	358.5	361.3	361.6	361.3
2082.5	67.5°	2265.3	2057.9	919.4	246.8	238.9	278.9	319.9	323.7	326.4	327.1
2100.9	70°	2064.4	1794.4	599.5	196.9	200.3	241.6	283.3	287.1	289.5	292.2
1823.1	72.5°	1609.1	1319.3	343.1	159.3	166.4	209.5	247.1	251.6	252.9	258.0
1268.7	75°	980.6	775.8	185.2	125.4	136.7	179.1	211.2	216.3	218.7	224.9
623.1	77.5°	466.2	336.0	105.6	97.7	110.1	146.3	178.4	184.2	177.7	181.1
171.9	80°	157.6	124.8	66.6	74.5	84.1	114.2	142.9	148.7	135.0	134.3
57.1	82.5°	55.0	50.6	42.4	49.6	54.3	81.7	108.0	115.5	100.5	100.1
25.6	85°	21.5	20.5	23.6	27.0	32.5	50.2	71.1	74.9	61.9	49.9
7.5	87.5°	4.4	4.8	5.8	6.2	9.9	17.4	25.6	31.4	25.0	21.2
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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180°
736.9
764.6
804.9
851.4
904.4
964.8
1039.4
1120.4
1164.4
1141.5
1080.0
1017.5
962.8
910.5
854.1
794.0
740.6
728.3
695.5
638.1
545.8
470.3
444.7
423.8
412.9
388.9
361.3
327.8
293.6
260.1
225.6
178.4
133.0
95.4
49.2
19.5
0.0

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