

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: P949563

Luminaire Tested: **GALN-SB4B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23335 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

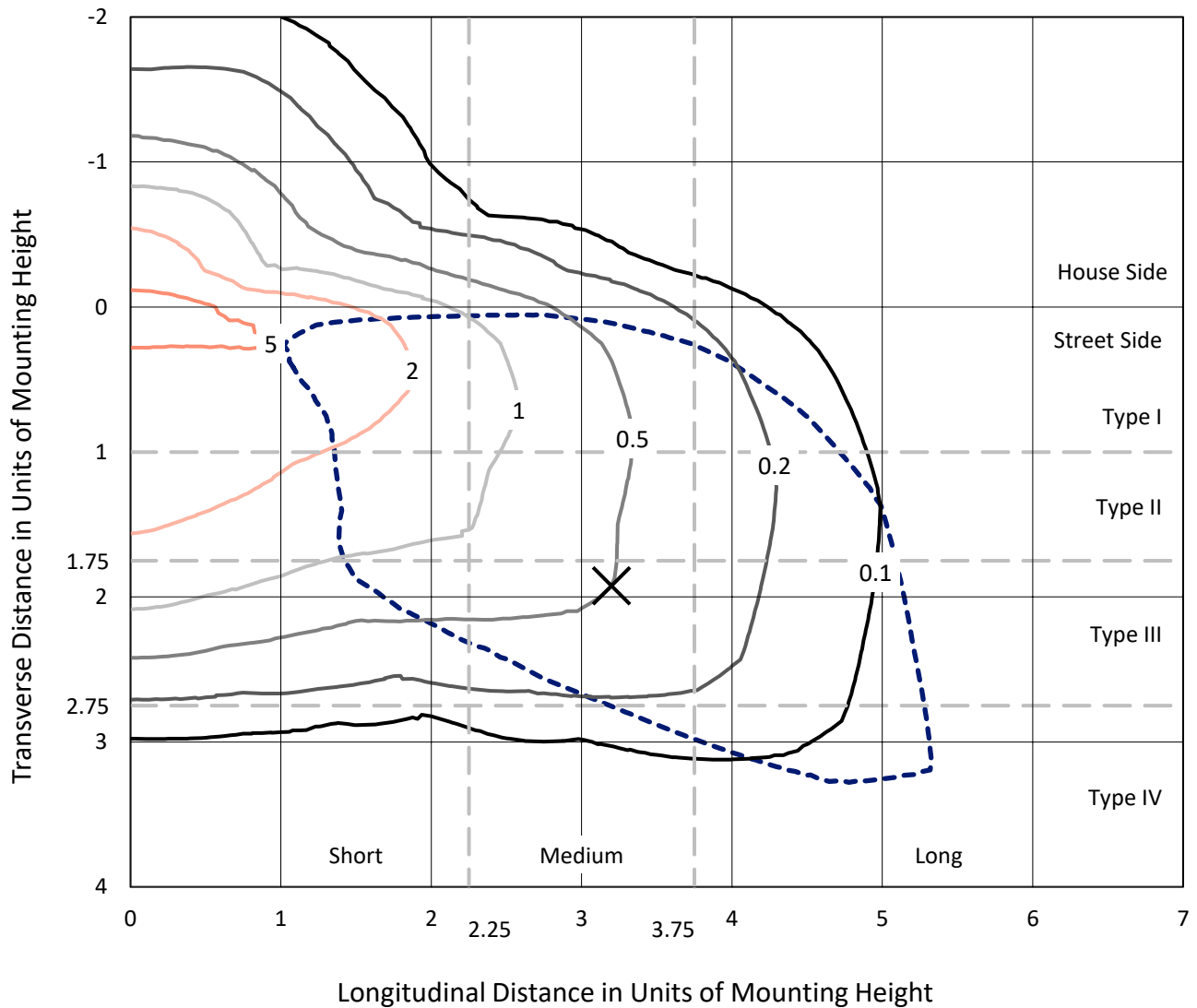
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

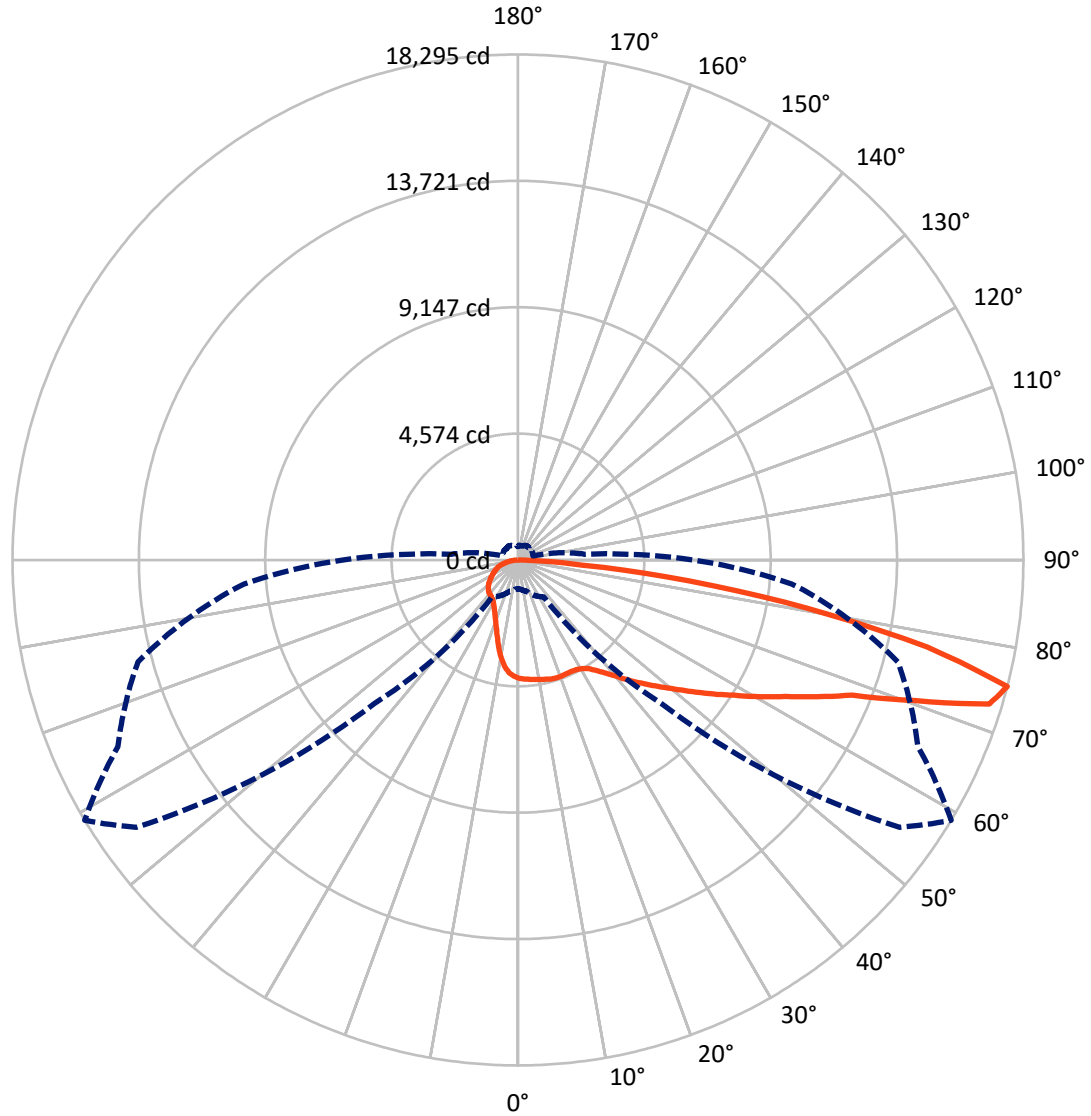
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4376.6	0.0	4376.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18958.4	0.0	18958.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	23335.0	0.0	23335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	1.6
10°-20°	981.6	4.2
20°-30°	1491.1	6.4
30°-40°	2216.4	9.5
40°-50°	3296.2	14.1
50°-60°	4474.2	19.2
60°-70°	5462.2	23.4
70°-80°	4286.7	18.4
80°-90°	742.6	3.2
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°	23335.0	100.0
0°-180°	23335.0	100.0

Coefficient of Utilization



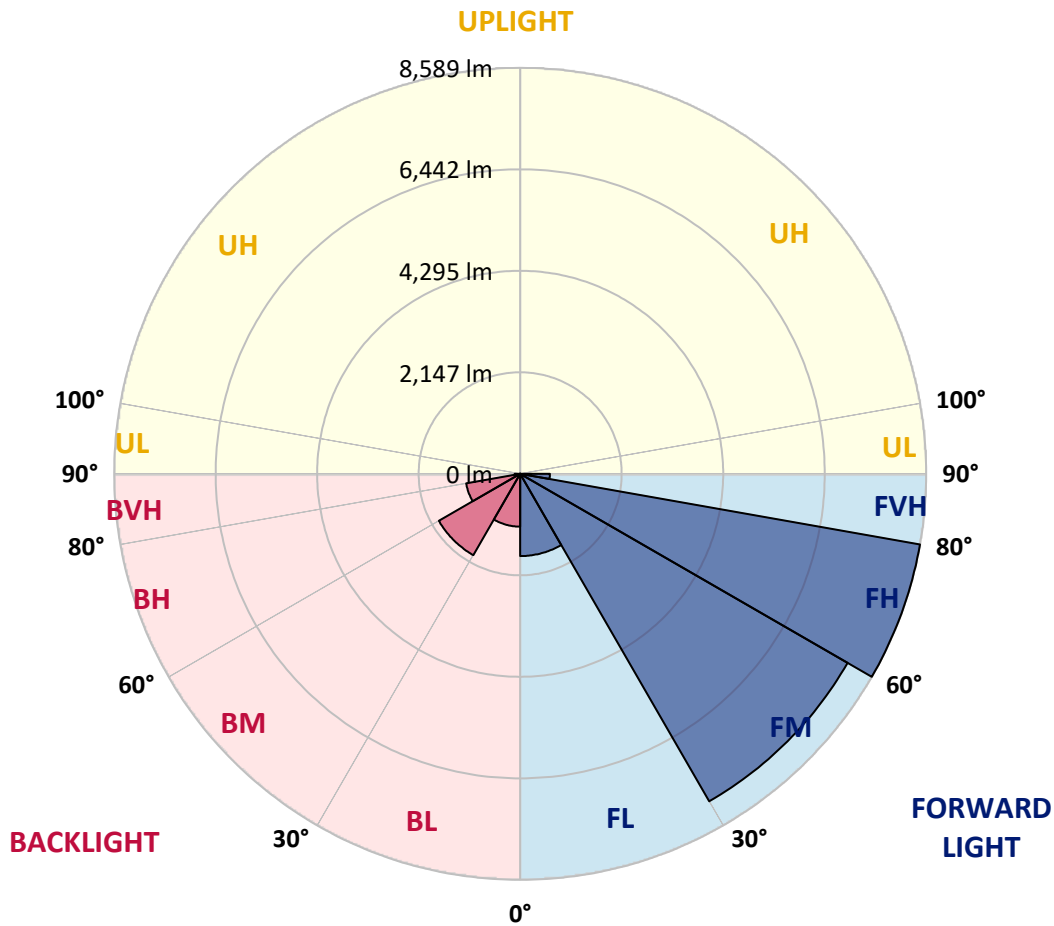
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.9	7.5			
FM (30°-60°)	8000.2	34.3			
FH (60°-80°)	8589.4	36.8			G4/12000
FVH (80°-90°)	628.9	2.7			G4/750
BL (0°-30°)	1116.9	4.8	B3/2500		
BM (30°-60°)	1986.6	8.5	B2/2500		
BH (60°-80°)	1159.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	113.7	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1
2.5°	4319.5	4304.4	4319.5	4313.2	4310.7	4305.7	4306.9	4315.7	4310.7	4317.0
5°	4290.6	4281.8	4296.9	4293.1	4309.4	4312.0	4328.3	4338.3	4344.6	4345.9
7.5°	4242.9	4234.1	4255.5	4273.0	4308.2	4318.2	4352.1	4368.4	4377.2	4392.3
10°	4068.4	4064.7	4117.4	4183.9	4266.8	4318.2	4369.7	4397.3	4411.1	4451.3
12.5°	3759.6	3764.6	3833.7	3961.7	4127.4	4293.1	4389.8	4430.0	4451.3	4501.5
15°	3464.6	3463.4	3538.7	3675.5	3907.8	4182.7	4399.8	4468.9	4505.3	4579.3
17.5°	3293.9	3288.9	3341.6	3445.8	3661.7	4013.2	4374.7	4490.2	4568.0	4660.9
20°	3262.5	3252.5	3280.1	3331.6	3484.7	3827.4	4309.4	4490.2	4618.3	4738.8
22.5°	3376.8	3360.4	3349.1	3342.9	3410.7	3674.3	4235.4	4475.1	4692.3	4850.5
25°	3606.5	3581.4	3523.6	3467.1	3447.1	3605.2	4170.1	4471.4	4802.8	5001.1
27.5°	3978.0	3946.7	3829.9	3694.4	3572.6	3640.4	4141.2	4494.0	4924.5	5160.5
30°	4438.7	4404.9	4258.0	4049.6	3831.2	3770.9	4177.6	4560.5	5080.2	5372.7
32.5°	4851.7	4814.1	4688.5	4476.4	4181.4	3996.9	4293.1	4687.3	5325.0	5667.7
35°	5218.3	5174.4	5061.4	4865.5	4610.7	4314.5	4501.5	4912.0	5672.7	6147.2
37.5°	5577.3	5525.8	5402.8	5195.7	5017.4	4737.5	4789.0	5200.7	6134.7	6729.7
40°	5979.0	5904.9	5755.6	5550.9	5377.7	5233.4	5166.8	5554.7	6604.1	7379.9
42.5°	6368.1	6297.8	6119.6	5945.1	5727.9	5686.5	5604.9	5969.0	7117.6	8094.2
45°	6787.4	6703.3	6487.4	6266.5	6129.6	5987.8	6029.2	6383.2	7620.9	8822.3
47.5°	7180.3	7086.2	6831.3	6585.3	6510.0	6241.4	6418.4	6838.9	8144.4	9560.4
50°	7392.5	7299.6	7087.4	6865.2	6806.2	6553.9	6840.1	7339.7	8693.0	10296.0
52.5°	7569.5	7469.0	7191.6	7068.6	7051.0	6894.1	7359.8	7912.2	9241.5	10946.2
55°	7757.8	7646.0	7292.0	7181.6	7261.9	7275.7	7976.2	8561.2	9821.5	11580.2
57.5°	7974.9	7833.1	7388.7	7277.0	7467.8	7722.6	8684.2	9234.0	10391.4	12167.6
60°	8179.5	8036.4	7574.5	7428.9	7690.0	8241.1	9496.4	10048.7	11036.6	12691.1
62.5°	8219.7	8101.7	7722.6	7721.4	7991.2	8846.1	10457.9	10870.9	11600.2	13208.3
65°	7524.3	7450.2	7225.5	7710.1	8423.1	9717.3	11528.7	11922.8	12317.0	13660.2
67.5°	5726.7	5736.7	5720.4	6655.6	8074.1	10968.8	13079.0	13048.9	13202.0	14167.3
70°	2618.6	2677.6	3061.7	4594.4	6468.6	11113.2	15642.3	15251.9	14312.9	14823.9
72.5°	1414.7	1459.9	1616.8	2225.6	3888.9	9880.5	17557.9	17835.3	15790.4	15265.7
75°	1038.1	1063.2	1172.5	1414.7	1633.1	7343.5	16871.2	18294.8	15975.0	14235.1
77.5°	777.0	788.3	877.5	1121.0	836.0	3871.3	13480.7	15151.5	13675.2	11695.6
80°	563.6	576.2	642.7	841.1	586.2	1416.0	9256.6	10634.9	9365.8	7455.2
82.5°	389.1	394.2	423.0	572.4	409.2	549.8	5252.2	6236.3	5228.3	2616.0
85°	234.7	241.0	253.6	333.9	232.2	261.1	2267.1	2344.9	1562.8	625.1
87.5°	96.7	102.9	113.0	140.6	91.6	72.8	374.1	469.5	292.5	183.3
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°
4283.1	0°	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1	4283.1
4295.6	2.5°	4289.4	4280.6	4256.7	4224.1	4194.0	4156.3	4140.0	4126.2	4113.6	4089.8
4329.5	5°	4315.7	4291.9	4227.9	4145.0	4050.9	3947.9	3847.5	3778.5	3719.5	3675.5
4368.4	7.5°	4355.9	4310.7	4194.0	4024.5	3808.6	3587.7	3388.1	3246.2	3139.5	3100.6
4423.7	10°	4397.3	4343.3	4140.0	3841.2	3468.4	3128.2	2863.3	2717.7	2632.4	2604.7
4489.0	12.5°	4446.3	4367.2	4055.9	3586.4	3088.0	2715.2	2484.2	2398.9	2354.9	2339.9
4569.3	15°	4517.8	4387.3	3929.1	3267.5	2725.3	2413.9	2264.6	2205.6	2183.0	2181.7
4652.1	17.5°	4571.8	4391.0	3732.0	2926.1	2446.6	2231.9	2108.9	2086.3	2101.4	2124.0
4733.7	20°	4632.1	4357.2	3473.4	2614.8	2250.8	2072.5	2021.0	2036.1	2072.5	2105.1
4841.7	22.5°	4674.7	4295.6	3160.8	2372.5	2081.3	1980.9	1978.4	2009.7	2029.8	2046.1
4968.5	25°	4712.4	4191.5	2829.4	2169.2	1942.0	1925.6	1953.2	1943.2	1929.4	1943.2
5095.3	27.5°	4740.0	4027.0	2533.2	1990.9	1844.0	1888.0	1871.7	1849.1	1847.8	1855.3
5244.6	30°	4731.2	3807.3	2289.7	1821.4	1775.0	1817.7	1778.8	1775.0	1771.2	1775.0
5469.3	32.5°	4731.2	3557.5	2102.6	1704.7	1731.1	1714.7	1711.0	1702.2	1687.1	1685.9
5774.4	35°	4757.6	3307.7	1942.0	1641.9	1694.7	1655.7	1658.3	1636.9	1605.5	1590.5
6178.6	37.5°	4811.6	3106.9	1782.5	1611.8	1630.6	1629.4	1619.3	1582.9	1527.7	1480.0
6683.2	40°	4942.1	3047.9	1673.3	1598.0	1600.5	1615.6	1589.2	1518.9	1393.4	1315.6
7195.4	42.5°	5146.7	3147.0	1649.5	1564.1	1580.4	1595.5	1544.0	1380.8	1291.7	1245.3
7732.7	45°	5406.6	3320.3	1700.9	1515.1	1532.7	1559.1	1405.9	1328.1	1287.9	1289.2
8264.9	47.5°	5735.5	3502.3	1796.3	1472.5	1463.7	1478.7	1314.3	1266.6	1211.4	1225.2
8775.8	50°	6115.8	3686.8	1886.7	1414.7	1387.1	1338.2	1255.3	1210.1	1139.8	1107.2
9269.1	52.5°	6527.6	3865.1	1923.1	1344.4	1304.3	1247.8	1215.1	1159.9	1074.5	1020.6
9734.9	55°	6918.0	4027.0	1883.0	1260.3	1221.4	1177.5	1172.5	1138.6	1046.9	971.6
10149.1	57.5°	7287.0	4162.6	1782.5	1175.0	1137.3	1110.9	1144.8	1128.5	1013.0	916.4
10540.8	60°	7599.6	4255.5	1636.9	1088.3	1062.0	1048.2	1099.6	1094.6	965.3	857.4
10892.2	62.5°	7848.1	4291.9	1476.2	1005.5	999.2	974.1	1036.9	1036.9	905.1	799.6
11201.1	65°	8042.7	4256.7	1313.0	923.9	936.5	898.8	960.3	952.8	841.1	748.2
11556.3	67.5°	8214.7	4141.2	1132.3	843.6	872.4	824.7	880.0	862.4	770.8	696.7
11863.9	70°	8291.3	3872.6	926.4	763.2	798.4	751.9	799.6	767.0	691.7	641.5
11526.2	72.5°	7676.2	3218.6	729.3	679.1	709.2	671.6	713.0	675.4	606.3	583.7
9953.3	75°	6350.6	2415.2	561.1	587.5	610.1	581.2	608.8	581.2	518.4	534.8
7352.3	77.5°	4612.0	1630.6	429.3	490.8	500.9	485.8	509.7	478.3	421.8	418.0
3664.2	80°	2293.4	955.3	336.4	387.9	384.1	374.1	401.7	386.6	338.9	359.0
989.2	82.5°	664.1	409.2	244.8	272.4	264.9	267.4	287.5	295.0	441.9	438.1
307.5	85°	208.4	160.7	146.9	151.9	144.4	148.1	169.5	336.4	311.3	182.0
95.4	87.5°	54.0	55.2	36.4	38.9	40.2	47.7	54.0	204.6	97.9	64.0
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>
4283.1
4078.5
3639.1
3032.8
2562.1
2343.6
2186.7
2132.8
2116.4
2054.9
1952.0
1867.9
1788.8
1702.2
1605.5
1496.3
1325.6
1245.3
1295.5
1260.3
1116.0
1019.3
971.6
911.3
853.6
795.9
743.1
691.7
631.4
564.9
488.3
399.2
355.3
448.1
197.1
67.8
0.0

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