

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: P947398

Luminaire Tested: **GALN-SB2D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947398
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-SB2D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 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: 20227 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

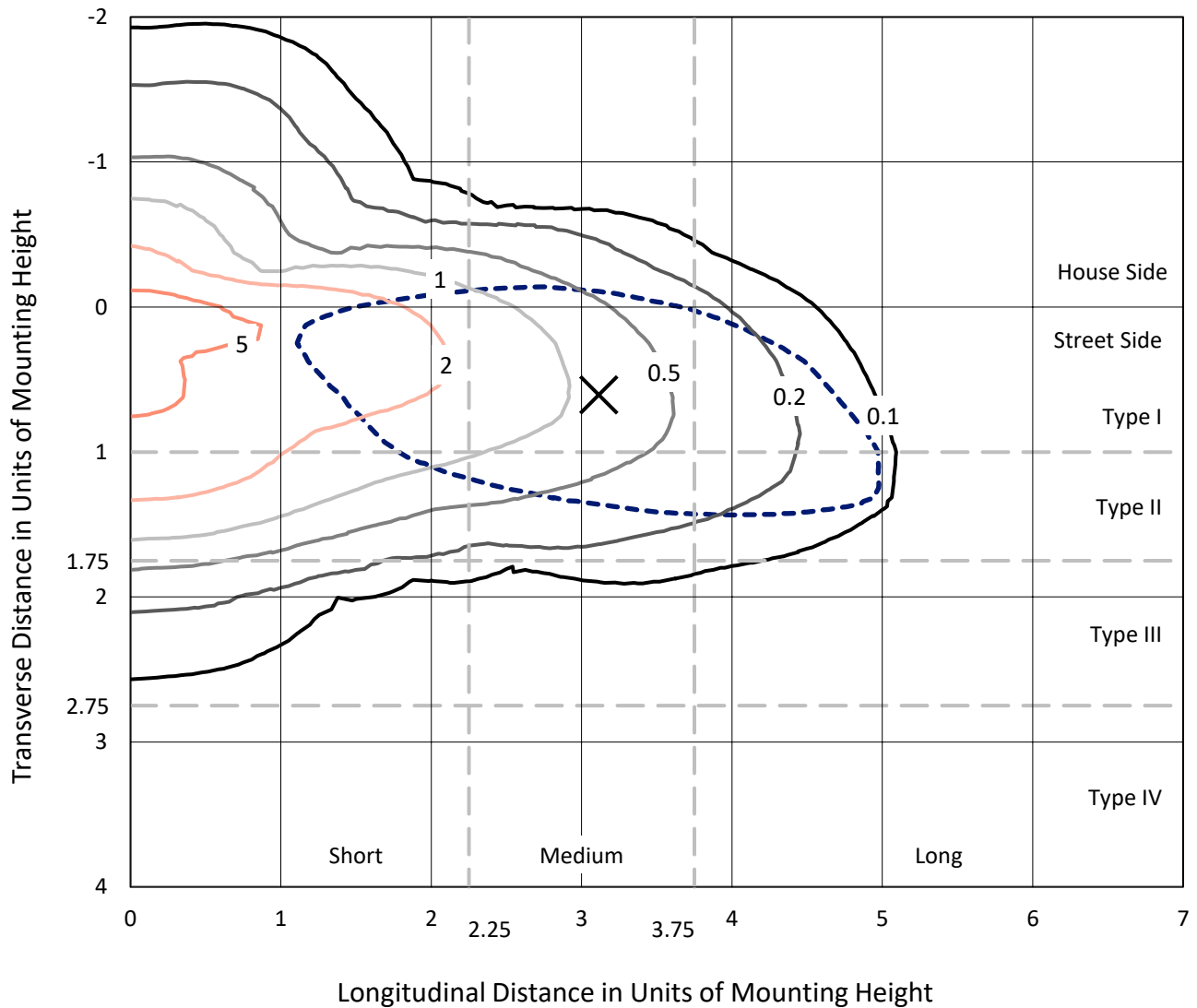
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

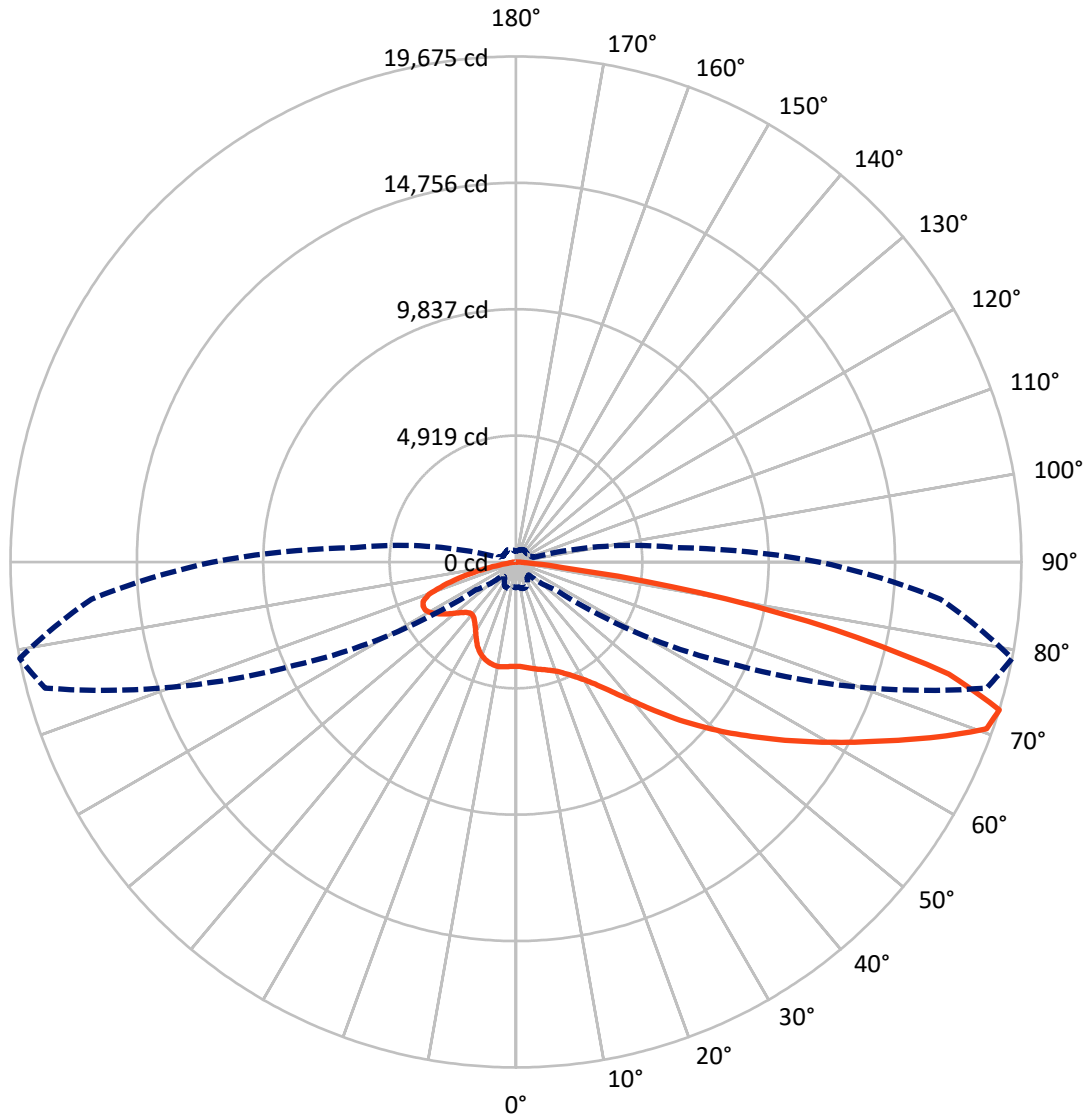
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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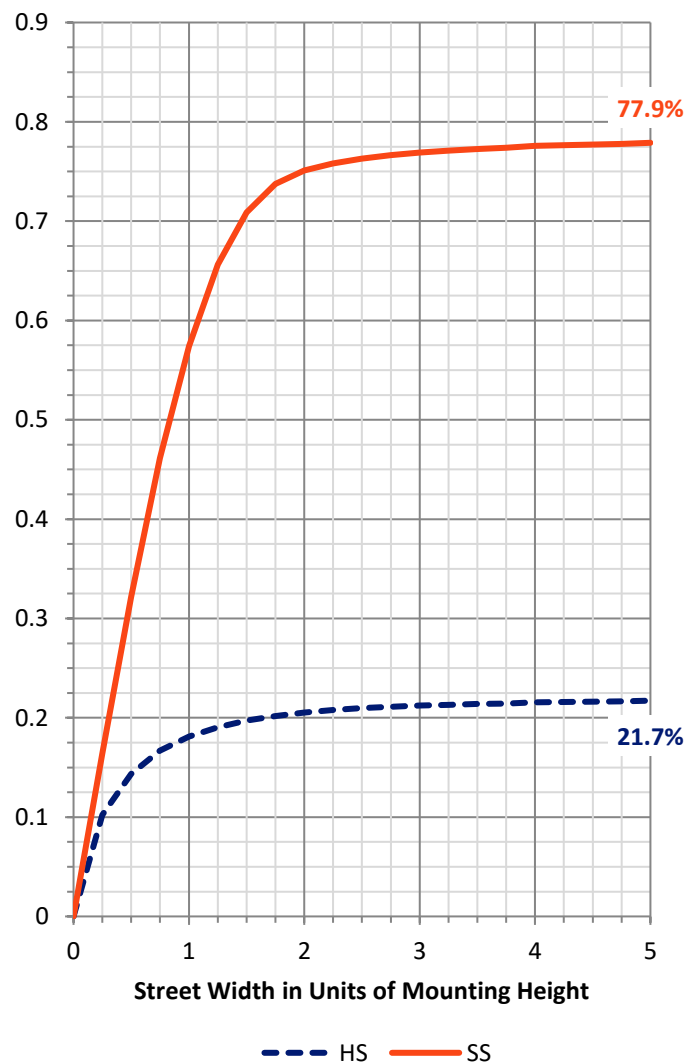
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4451.0	0.0	4451.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15776.0	0.0	15776.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	20227.0	0.0	20227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	1.8
10°-20°	963.6	4.8
20°-30°	1554.9	7.7
30°-40°	2333.7	11.5
40°-50°	3310.4	16.4
50°-60°	4180.6	20.7
60°-70°	4246.0	21.0
70°-80°	2893.8	14.3
80°-90°	375.5	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°	20227.0	100.0
0°-180°	20227.0	100.0

Coefficient of Utilization



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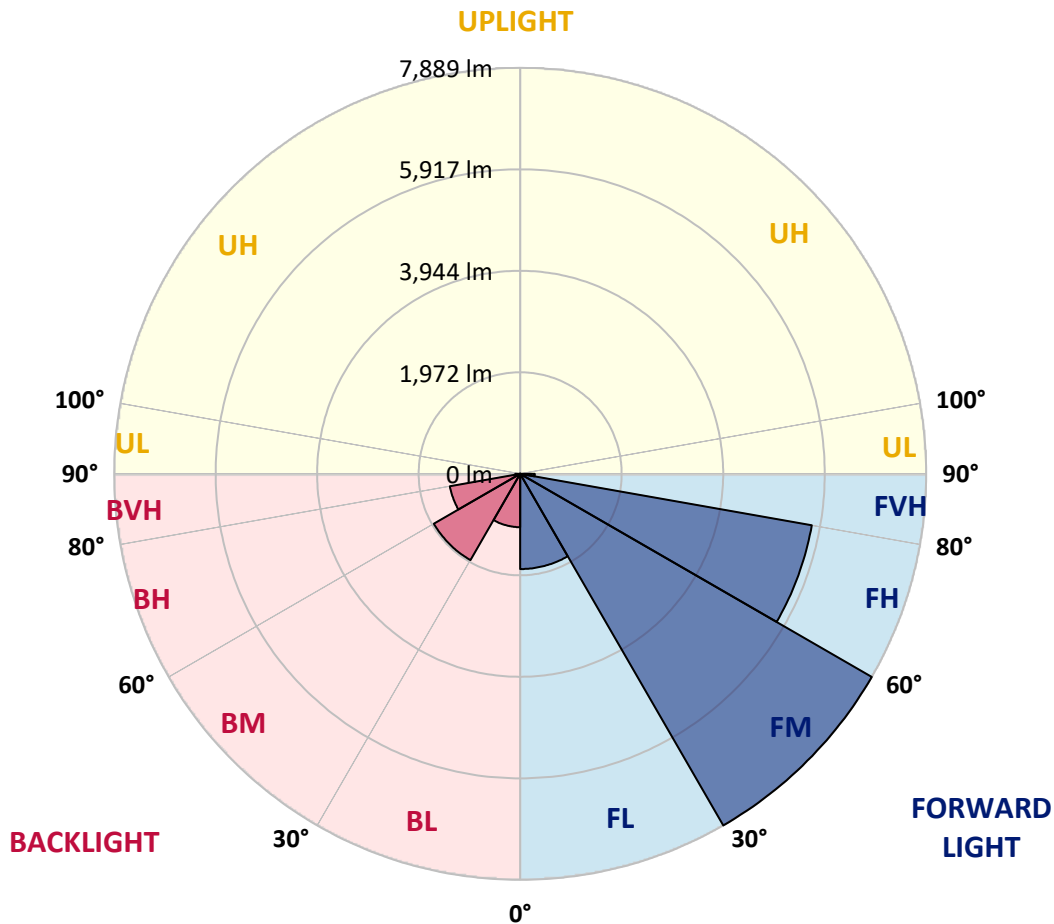
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1850.3	9.1			
FM (30°-60°)	7888.9	39.0			
FH (60°-80°)	5753.9	28.4			G3/7500
FVH (80°-90°)	282.8	1.4			G3/500
BL (0°-30°)	1036.8	5.1	B3/2500		
BM (30°-60°)	1935.7	9.6	B2/2500		
BH (60°-80°)	1385.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	92.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4
2.5°	4062.5	4043.3	4055.0	4050.7	4056.1	4062.5	4064.7	4067.9	4078.6	4077.5
5°	4054.0	4034.7	4050.7	4045.4	4059.3	4074.3	4087.1	4098.9	4116.0	4123.5
7.5°	4035.8	4022.9	4039.0	4055.0	4080.7	4103.2	4121.4	4148.1	4172.7	4177.0
10°	3929.8	3920.2	3957.7	3999.4	4070.0	4131.0	4170.6	4201.6	4228.4	4232.6
12.5°	3819.6	3807.9	3849.6	3906.3	4020.8	4131.0	4214.4	4255.1	4278.6	4292.6
15°	3801.5	3791.8	3815.4	3864.6	3959.8	4102.1	4244.4	4319.3	4339.6	4355.7
17.5°	3889.2	3871.0	3880.6	3897.7	3953.4	4075.4	4267.9	4392.1	4423.1	4440.2
20°	4092.5	4066.8	4051.8	4017.6	4008.0	4079.6	4265.8	4479.8	4520.4	4541.8
22.5°	4363.2	4346.0	4314.0	4227.3	4133.1	4132.1	4306.5	4592.1	4668.1	4688.4
25°	4690.6	4664.9	4624.2	4506.5	4325.7	4235.8	4374.9	4735.5	4862.8	4868.2
27.5°	5067.2	5028.7	4973.0	4817.9	4573.9	4398.5	4479.8	4900.3	5086.4	5084.3
30°	5464.1	5425.6	5366.8	5178.5	4871.4	4617.8	4625.3	5077.9	5351.8	5340.0
32.5°	5754.1	5725.2	5713.4	5567.9	5213.8	4876.7	4792.2	5274.7	5679.2	5668.5
35°	5976.6	5939.2	5953.1	5879.3	5587.2	5166.7	4996.6	5509.1	6077.2	6076.1
37.5°	6197.0	6163.9	6175.6	6126.4	5932.8	5534.7	5245.9	5795.8	6570.4	6594.0
40°	6398.2	6362.9	6409.9	6363.9	6201.3	5926.3	5529.4	6120.0	7141.8	7186.7
42.5°	6519.1	6491.3	6569.4	6570.4	6434.5	6256.9	5840.7	6477.3	7803.0	7903.6
45°	6560.8	6551.2	6668.9	6693.5	6641.0	6448.5	6121.1	6866.8	8515.6	8695.3
47.5°	6515.9	6497.7	6660.3	6751.2	6793.0	6538.3	6353.2	7288.4	9243.1	9506.3
50°	6289.0	6253.7	6495.5	6687.1	6835.8	6597.2	6587.5	7775.2	10070.2	10358.0
52.5°	5881.4	5854.6	6129.6	6462.4	6741.6	6626.1	6850.8	8306.9	10855.5	11227.8
55°	5360.3	5325.0	5627.8	6062.2	6507.3	6616.4	7114.0	8901.8	11782.1	12159.7
57.5°	4534.4	4463.7	4846.8	5360.3	6125.3	6604.7	7387.9	9493.5	12723.6	13176.2
60°	3329.6	3224.8	3694.5	4303.3	5378.5	6490.2	7727.0	10156.8	13853.4	14261.1
62.5°	1938.7	1877.7	2184.8	2752.9	4054.0	5816.1	7917.5	10928.2	14964.0	15392.0
65°	1505.4	1488.3	1515.0	1558.9	2256.5	4354.6	7330.1	11680.4	16376.3	16675.9
67.5°	1377.0	1364.2	1375.9	1293.5	1144.8	2425.5	5799.0	11870.9	17889.2	18071.1
70°	1224.0	1209.0	1247.5	1176.9	900.9	1103.1	3746.9	11179.7	19092.9	19434.2
72.5°	997.2	980.1	1069.9	1037.8	758.6	708.3	1882.0	9537.3	18966.6	19674.9
75°	766.1	756.4	863.4	890.2	618.4	557.4	903.0	7089.3	16690.9	17404.5
77.5°	594.9	587.4	642.0	739.3	498.6	432.3	555.3	4496.9	12578.1	12703.3
80°	446.2	424.8	475.0	572.4	388.4	315.6	376.6	2622.4	7950.6	7207.0
82.5°	279.3	268.6	310.3	382.0	273.9	217.2	245.0	1448.7	3186.2	1876.7
85°	159.4	155.1	169.0	218.3	148.7	125.2	140.2	639.8	582.0	400.2
87.5°	64.2	62.1	77.0	97.4	54.6	46.0	49.2	154.1	128.4	118.8
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°
4060.4	0°	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4	4060.4
4076.4	2.5°	4072.1	4072.1	4057.2	4033.6	4006.9	3989.8	3961.9	3954.5	3925.6	3917.0
4112.8	5°	4121.4	4112.8	4066.8	4000.5	3909.5	3826.1	3734.0	3676.3	3595.0	3566.1
4184.5	7.5°	4183.4	4159.9	4080.7	3935.2	3744.7	3557.5	3362.8	3215.1	3073.9	3023.6
4243.3	10°	4240.1	4207.0	4072.1	3817.5	3488.0	3163.8	2853.5	2636.3	2471.5	2404.1
4308.6	12.5°	4296.8	4235.8	4015.4	3621.7	3123.1	2683.4	2352.8	2183.7	2082.1	2000.8
4362.1	15°	4350.3	4264.7	3927.7	3359.6	2723.0	2276.8	2032.9	1898.1	1816.7	1763.2
4440.2	17.5°	4412.4	4289.3	3796.1	3026.8	2342.1	1995.4	1796.4	1715.1	1699.0	1692.6
4547.2	20°	4499.0	4311.8	3622.8	2654.5	2061.8	1770.7	1668.0	1660.5	1659.5	1656.2
4675.6	22.5°	4592.1	4338.6	3393.8	2316.4	1823.2	1630.6	1612.4	1597.4	1587.8	1586.7
4830.7	25°	4702.3	4347.1	3107.1	2039.3	1619.9	1564.2	1542.8	1520.4	1513.9	1513.9
5007.3	27.5°	4809.3	4318.2	2773.3	1798.5	1505.4	1503.2	1475.4	1467.9	1466.9	1470.1
5208.4	30°	4916.3	4263.7	2441.6	1576.0	1439.1	1439.1	1429.4	1434.8	1439.1	1449.8
5484.5	32.5°	5060.8	4205.9	2164.5	1411.2	1381.3	1370.6	1380.2	1390.9	1395.2	1409.1
5847.2	35°	5272.6	4165.2	1944.1	1321.4	1321.4	1307.5	1312.8	1310.7	1301.0	1294.6
6285.8	37.5°	5552.9	4163.1	1762.2	1279.6	1271.1	1268.9	1270.0	1256.1	1218.6	1173.7
6816.5	40°	5890.0	4220.9	1622.0	1250.7	1244.3	1257.2	1250.7	1213.3	1110.6	1032.5
7469.2	42.5°	6342.5	4385.6	1532.1	1215.4	1234.7	1250.7	1225.1	1095.6	1026.1	973.6
8212.8	45°	6875.4	4653.1	1486.1	1178.0	1216.5	1235.8	1111.7	1054.9	999.3	936.2
9023.8	47.5°	7478.8	4990.1	1475.4	1142.7	1175.9	1187.6	1063.5	1037.8	974.7	906.2
9839.1	50°	8135.7	5389.2	1504.3	1101.0	1117.0	1076.3	1047.5	1023.9	958.7	891.3
10674.7	52.5°	8815.1	5829.0	1562.1	1044.3	1058.2	1013.2	1041.0	1020.7	949.0	858.1
11538.1	55°	9482.8	6271.9	1617.7	977.9	998.2	956.5	1022.9	1007.9	905.2	802.4
12459.3	57.5°	10161.1	6712.7	1672.3	919.1	940.5	901.9	994.0	973.6	855.9	751.1
13465.0	60°	10866.2	7140.7	1698.0	862.4	877.3	851.7	950.1	914.8	800.3	698.7
14453.7	62.5°	11526.3	7497.0	1656.2	805.7	815.3	804.6	892.3	845.2	744.7	639.8
15484.0	65°	12188.6	7708.8	1527.9	750.0	752.2	746.8	811.0	770.3	679.4	588.5
16386.0	67.5°	12788.9	7827.6	1323.5	690.1	684.8	682.6	735.0	689.0	616.3	537.1
17071.8	70°	12916.2	7525.9	1011.1	619.5	619.5	614.1	651.6	604.5	546.7	482.5
16580.7	72.5°	11797.0	6330.8	717.9	539.2	547.8	537.1	568.1	528.5	476.1	433.3
14290.0	75°	9512.7	4642.4	522.1	456.9	471.8	453.6	482.5	454.7	409.8	408.7
9847.6	77.5°	6536.2	2870.6	378.8	376.6	387.3	363.8	396.9	382.0	341.3	323.1
4286.1	80°	2789.3	1144.8	276.0	291.0	291.0	269.6	308.1	312.4	277.1	268.6
827.1	82.5°	555.3	325.3	193.7	200.1	188.3	181.9	218.3	241.8	333.8	371.3
249.3	85°	166.9	119.8	116.6	109.1	96.3	97.4	128.4	242.9	299.6	171.2
82.4	87.5°	46.0	30.0	31.0	24.6	20.3	26.7	43.9	184.0	100.6	42.8
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>
4060.4
3930.9
3587.5
3030.0
2419.1
2027.5
1772.9
1696.9
1666.9
1598.5
1520.4
1478.6
1457.2
1420.9
1309.6
1174.8
1030.3
971.5
931.9
900.9
883.8
851.7
797.1
748.9
695.5
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582.0
530.7
480.4
420.5
368.1
302.8
268.6
372.3
147.7
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0.0

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