

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: P952125

Luminaire Tested: **GALN-SB6A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952125
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-SB6A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23118 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

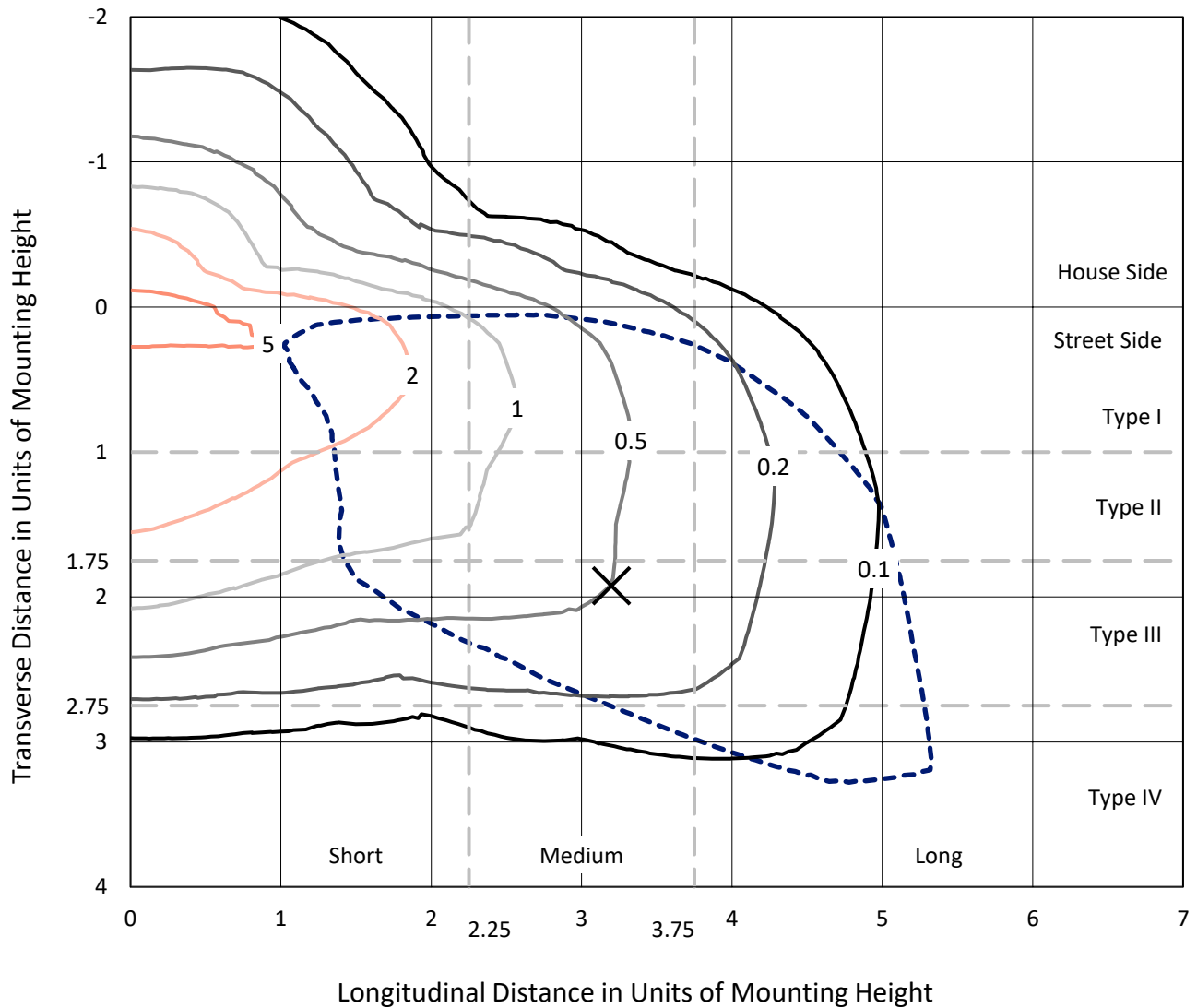
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

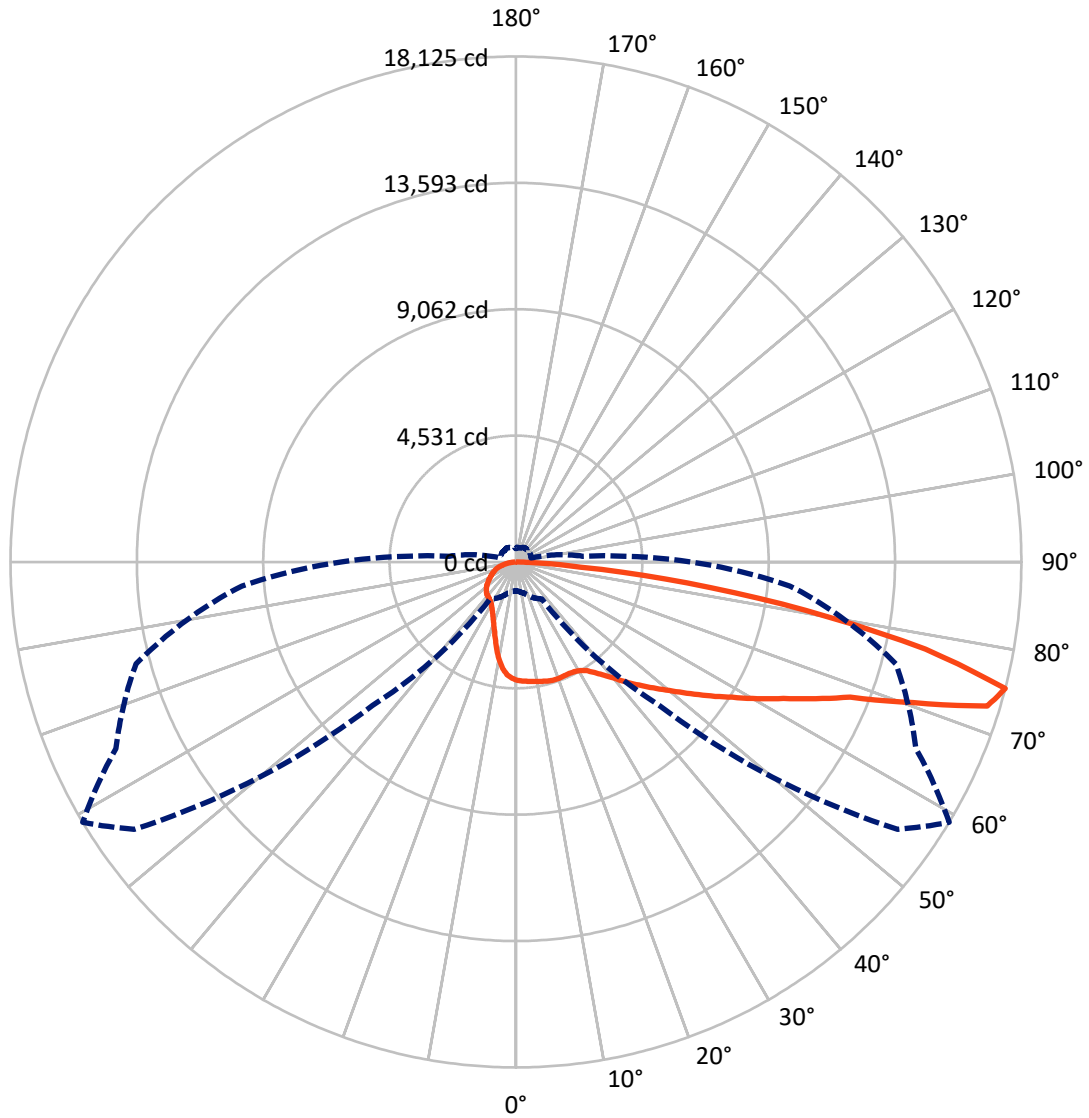
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	4335.9	0.0	4335.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18782.1	0.0	18782.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	23118.0	0.0	23118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.6
10°-20°	972.5	4.2
20°-30°	1477.2	6.4
30°-40°	2195.8	9.5
40°-50°	3265.5	14.1
50°-60°	4432.6	19.2
60°-70°	5411.4	23.4
70°-80°	4246.8	18.4
80°-90°	735.7	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°	23118.0	100.0
0°-180°	23118.0	100.0

Coefficient of Utilization

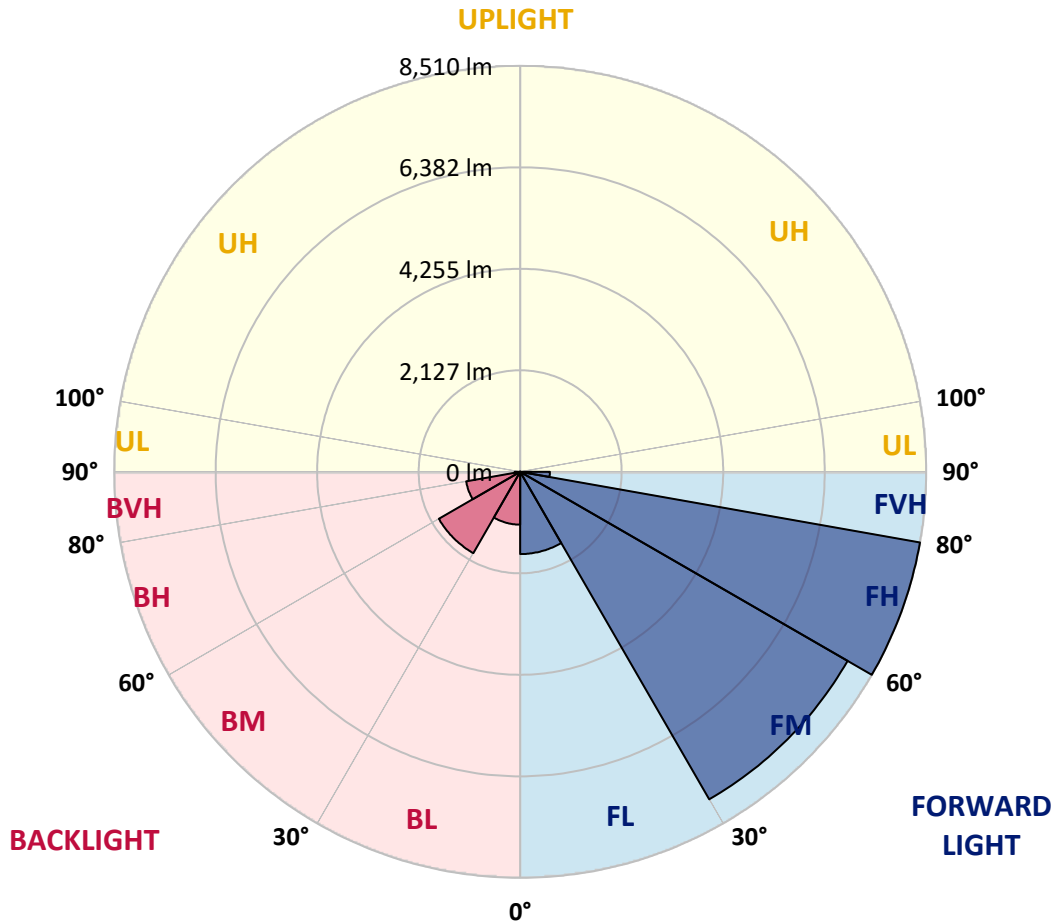


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.7	7.5			
FM (30°-60°)	7925.8	34.3			
FH (60°-80°)	8509.5	36.8			G4/12000
FVH (80°-90°)	623.0	2.7			G4/750
BL (0°-30°)	1106.5	4.8	B3/2500		
BM (30°-60°)	1968.1	8.5	B2/2500		
BH (60°-80°)	1148.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	112.6	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°	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3
2.5°	4279.3	4264.4	4279.3	4273.1	4270.6	4265.6	4266.9	4275.6	4270.6	4276.8
5°	4250.7	4242.0	4256.9	4253.2	4269.4	4271.9	4288.0	4298.0	4304.2	4305.4
7.5°	4203.5	4194.8	4215.9	4233.3	4268.1	4278.1	4311.7	4327.8	4336.5	4351.5
10°	4030.6	4026.9	4079.1	4145.0	4227.1	4278.1	4329.1	4356.4	4370.1	4409.9
12.5°	3724.7	3729.6	3798.0	3924.9	4089.0	4253.2	4349.0	4388.8	4409.9	4459.6
15°	3432.4	3431.2	3505.8	3641.3	3871.4	4143.8	4358.9	4427.3	4463.4	4536.8
17.5°	3263.3	3258.3	3310.5	3413.8	3627.7	3975.9	4334.0	4448.5	4525.6	4617.6
20°	3232.2	3222.2	3249.6	3300.6	3452.3	3791.8	4269.4	4448.5	4575.3	4694.7
22.5°	3345.4	3329.2	3318.0	3311.8	3378.9	3640.1	4196.0	4433.5	4648.7	4805.4
25°	3572.9	3548.1	3490.9	3434.9	3415.0	3571.7	4131.3	4429.8	4758.1	4954.6
27.5°	3941.1	3910.0	3794.3	3660.0	3539.4	3606.5	4102.7	4452.2	4878.8	5112.6
30°	4397.5	4363.9	4218.4	4011.9	3795.6	3735.9	4138.8	4518.1	5033.0	5322.7
32.5°	4806.6	4769.3	4644.9	4434.8	4142.5	3959.7	4253.2	4643.7	5275.5	5615.0
35°	5169.8	5126.2	5014.3	4820.3	4567.8	4274.3	4459.6	4866.3	5620.0	6090.0
37.5°	5525.4	5474.4	5352.6	5147.4	4970.8	4693.5	4744.4	5152.3	6077.6	6667.1
40°	5923.4	5850.0	5702.0	5499.3	5327.7	5184.7	5118.8	5503.1	6542.7	7311.3
42.5°	6308.9	6239.3	6062.7	5889.8	5674.7	5633.6	5552.8	5913.4	7051.4	8018.9
45°	6724.3	6641.0	6427.1	6208.2	6072.6	5932.1	5973.1	6323.8	7550.1	8740.2
47.5°	7113.5	7020.3	6767.8	6524.1	6449.5	6183.3	6358.7	6775.3	8068.7	9471.5
50°	7323.7	7231.7	7021.5	6801.4	6742.9	6493.0	6776.5	7271.5	8612.1	10200.2
52.5°	7499.1	7399.6	7124.7	7002.9	6985.5	6830.0	7291.4	7838.6	9155.6	10844.4
55°	7685.6	7574.9	7224.2	7114.8	7194.4	7208.1	7902.0	8481.5	9730.1	11472.5
57.5°	7900.8	7760.2	7320.0	7209.3	7398.3	7650.8	8603.4	9148.1	10294.7	12054.5
60°	8103.5	7961.7	7504.0	7359.8	7618.5	8164.4	9408.0	9955.2	10934.0	12573.1
62.5°	8143.3	8026.4	7650.8	7649.6	7916.9	8763.8	10360.7	10769.8	11492.4	13085.4
65°	7454.3	7380.9	7158.3	7638.4	8344.7	9626.9	11421.5	11812.0	12202.5	13533.2
67.5°	5673.4	5683.4	5667.2	6593.7	7999.0	10866.8	12957.4	12927.5	13079.2	14035.6
70°	2594.2	2652.7	3033.2	4551.7	6408.4	11009.8	15496.8	15110.1	14179.8	14686.0
72.5°	1401.6	1446.3	1601.8	2205.0	3852.8	9788.6	17394.6	17669.5	15643.6	15123.8
75°	1028.5	1053.4	1161.5	1401.6	1618.0	7275.2	16714.4	18124.6	15826.4	14102.7
77.5°	769.8	781.0	869.3	1110.6	828.3	3835.3	13355.3	15010.6	13548.1	11586.9
80°	558.4	570.8	636.7	833.2	580.8	1402.8	9170.5	10536.0	9278.7	7385.9
82.5°	385.5	390.5	419.1	567.1	405.4	544.7	5203.3	6178.3	5179.7	2591.7
85°	232.6	238.8	251.2	330.8	230.1	258.7	2246.0	2323.1	1548.3	619.3
87.5°	95.8	102.0	111.9	139.3	90.8	72.1	370.6	465.1	289.8	181.6
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°
4243.3	0°	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3	4243.3
4255.7	2.5°	4249.5	4240.8	4217.1	4184.8	4155.0	4117.7	4101.5	4087.8	4075.4	4051.7
4289.3	5°	4275.6	4252.0	4188.5	4106.5	4013.2	3911.2	3811.7	3743.3	3684.9	3641.3
4327.8	7.5°	4315.4	4270.6	4155.0	3987.1	3773.2	3554.3	3356.6	3216.0	3110.3	3071.8
4382.5	10°	4356.4	4303.0	4101.5	3805.5	3436.1	3099.1	2836.7	2692.5	2607.9	2580.5
4447.2	12.5°	4404.9	4326.6	4018.2	3553.0	3059.3	2690.0	2461.1	2376.6	2333.0	2318.1
4526.8	15°	4475.8	4346.5	3892.6	3237.2	2699.9	2391.5	2243.5	2185.1	2162.7	2161.4
4608.9	17.5°	4529.3	4350.2	3697.3	2898.9	2423.8	2211.2	2089.3	2066.9	2081.8	2104.2
4689.7	20°	4589.0	4316.6	3441.1	2590.5	2229.8	2053.2	2002.2	2017.2	2053.2	2085.6
4796.7	22.5°	4631.3	4255.7	3131.5	2350.5	2061.9	1962.4	1960.0	1991.0	2010.9	2027.1
4922.3	25°	4668.6	4152.5	2803.1	2149.0	1923.9	1907.7	1935.1	1925.1	1911.5	1925.1
5047.9	27.5°	4695.9	3989.6	2509.6	1972.4	1826.9	1870.4	1854.2	1831.9	1830.6	1838.1
5195.9	30°	4687.2	3771.9	2268.4	1804.5	1758.5	1800.8	1762.2	1758.5	1754.8	1758.5
5418.5	32.5°	4687.2	3524.4	2083.1	1688.8	1715.0	1698.8	1695.1	1686.4	1671.4	1670.2
5720.7	35°	4713.3	3277.0	1923.9	1626.7	1678.9	1640.3	1642.8	1621.7	1590.6	1575.7
6121.1	37.5°	4766.8	3078.0	1766.0	1596.8	1615.5	1614.2	1604.3	1568.2	1513.5	1466.2
6621.1	40°	4896.2	3019.5	1657.8	1583.1	1585.6	1600.5	1574.4	1504.8	1380.4	1303.3
7128.5	42.5°	5098.9	3117.8	1634.1	1549.6	1565.7	1580.7	1529.7	1368.0	1279.7	1233.7
7660.7	45°	5356.3	3289.4	1685.1	1501.1	1518.5	1544.6	1392.9	1315.8	1276.0	1277.2
8188.0	47.5°	5682.1	3469.7	1779.6	1458.8	1450.1	1465.0	1302.1	1254.8	1200.1	1213.8
8694.2	50°	6059.0	3652.5	1869.2	1401.6	1374.2	1325.7	1243.6	1198.9	1129.2	1096.9
9182.9	52.5°	6466.9	3829.1	1905.2	1331.9	1292.1	1236.2	1203.8	1149.1	1064.5	1011.1
9644.3	55°	6853.6	3989.6	1865.4	1248.6	1210.0	1166.5	1161.5	1128.0	1037.2	962.6
10054.7	57.5°	7219.3	4123.9	1766.0	1164.0	1126.7	1100.6	1134.2	1118.0	1003.6	907.8
10442.7	60°	7528.9	4215.9	1621.7	1078.2	1052.1	1038.4	1089.4	1084.4	956.3	849.4
10791.0	62.5°	7775.2	4252.0	1462.5	996.1	989.9	965.1	1027.2	1027.2	896.7	792.2
11096.9	65°	7967.9	4217.1	1300.8	915.3	927.7	890.4	951.4	943.9	833.2	741.2
11448.8	67.5°	8138.3	4102.7	1121.8	835.7	864.3	817.1	871.8	854.4	763.6	690.2
11753.5	70°	8214.2	3836.6	917.8	756.1	790.9	744.9	792.2	759.9	685.2	635.5
11419.0	72.5°	7604.8	3188.7	722.5	672.8	702.6	665.3	706.4	669.1	600.7	578.3
9860.7	75°	6291.5	2392.7	555.9	582.0	604.4	575.8	603.2	575.8	513.6	529.8
7283.9	77.5°	4569.1	1615.5	425.3	486.3	496.2	481.3	504.9	473.8	417.9	414.1
3630.1	80°	2272.1	946.4	333.3	384.3	380.6	370.6	398.0	383.0	335.8	355.7
980.0	82.5°	657.9	405.4	242.5	269.9	262.4	264.9	284.8	292.3	437.8	434.0
304.7	85°	206.4	159.2	145.5	150.5	143.0	146.7	167.9	333.3	308.4	180.3
94.5	87.5°	53.5	54.7	36.1	38.6	39.8	47.3	53.5	202.7	97.0	63.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4243.3
4040.5
3605.3
3004.6
2538.2
2321.9
2166.4
2112.9
2096.8
2035.8
1933.8
1850.5
1772.2
1686.4
1590.6
1482.4
1313.3
1233.7
1283.4
1248.6
1105.6
1009.8
962.6
902.9
845.7
788.5
736.2
685.2
625.5
559.6
483.8
395.5
351.9
444.0
195.2
67.2
0.0

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