

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: P950695

Luminaire Tested: **GALN-SB5A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950695
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-SB5A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19585 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

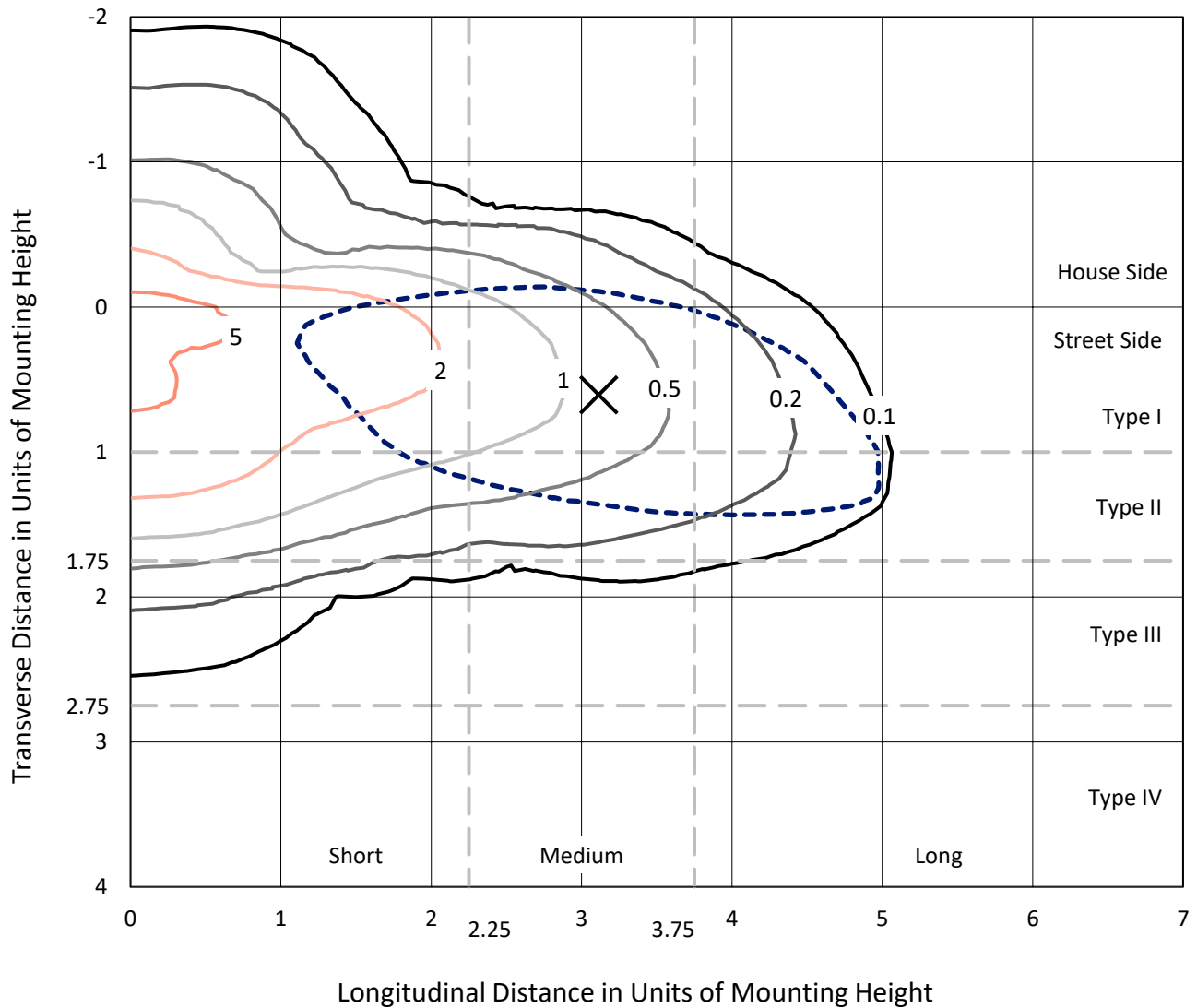
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

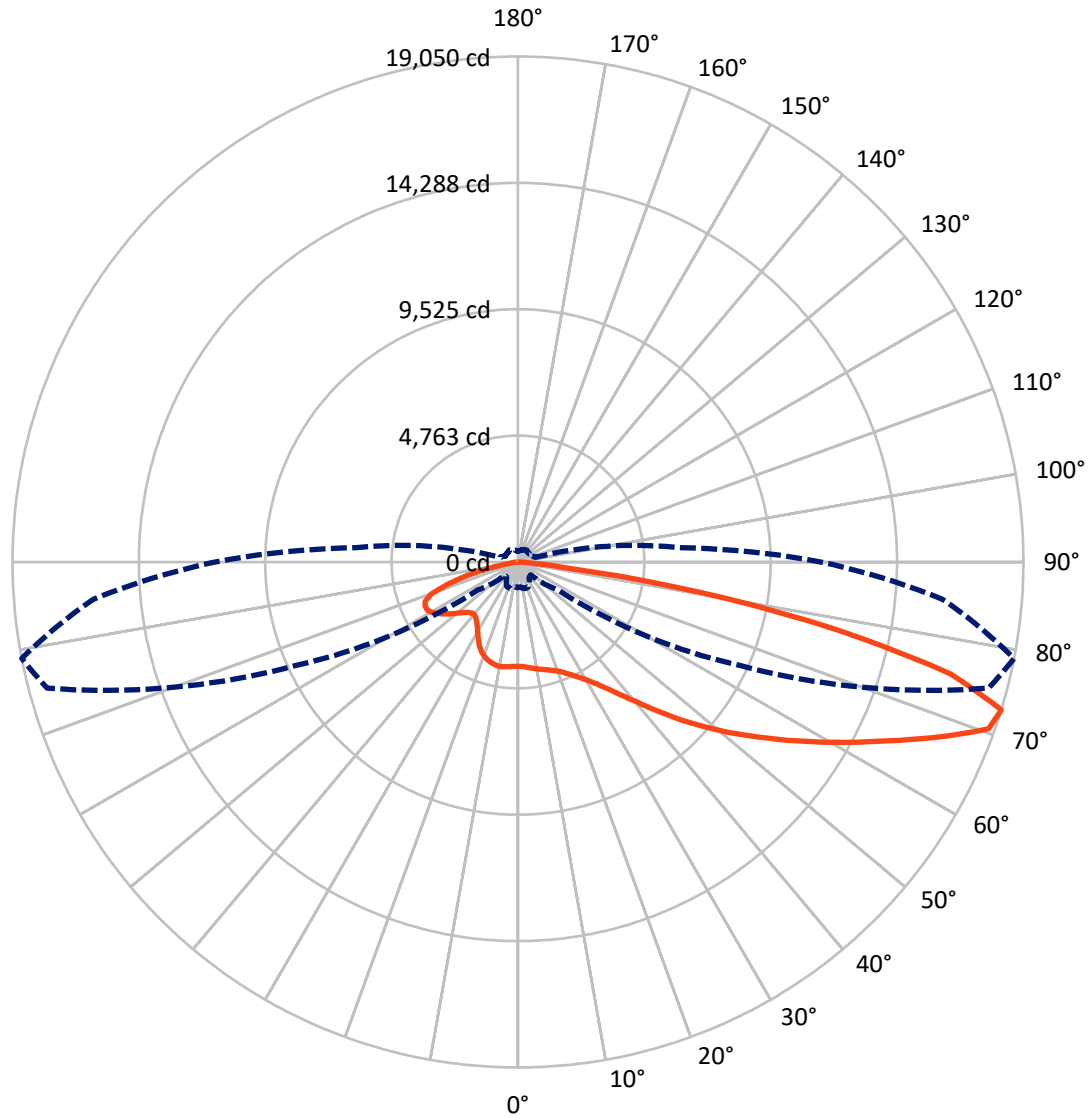
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	4309.8	0.0	4309.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15275.2	0.0	15275.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	19585.0	0.0	19585.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	1.8
10°-20°	933.0	4.8
20°-30°	1505.5	7.7
30°-40°	2259.6	11.5
40°-50°	3205.3	16.4
50°-60°	4047.9	20.7
60°-70°	4111.2	21.0
70°-80°	2802.0	14.3
80°-90°	363.5	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°	19585.0	100.0
0°-180°	19585.0	100.0



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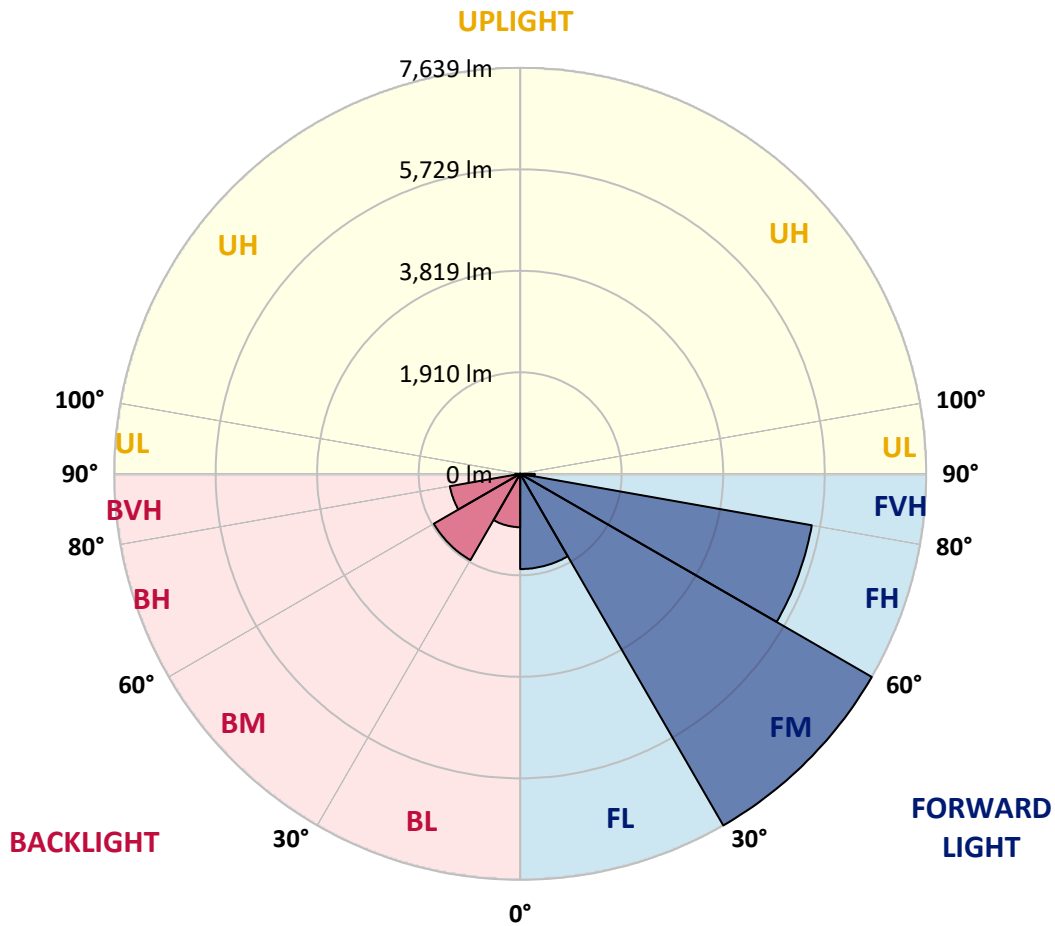
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.6	9.1			
FM (30°-60°)	7638.6	39.0			
FH (60°-80°)	5571.3	28.4			G3/7500
FVH (80°-90°)	273.9	1.4			G3/500
BL (0°-30°)	1003.9	5.1	B3/2500		
BM (30°-60°)	1874.3	9.6	B2/2500		
BH (60°-80°)	1341.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	89.7	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°	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5
2.5°	3933.6	3914.9	3926.3	3922.2	3927.4	3933.6	3935.6	3938.8	3949.1	3948.1
5°	3925.3	3906.6	3922.2	3917.0	3930.5	3945.0	3957.4	3968.8	3985.4	3992.6
7.5°	3907.7	3895.2	3910.8	3926.3	3951.2	3972.9	3990.6	4016.5	4040.3	4044.4
10°	3805.1	3795.8	3832.0	3872.5	3940.8	3999.9	4038.2	4068.3	4094.1	4098.3
12.5°	3698.4	3687.0	3727.4	3782.3	3893.2	3999.9	4080.7	4120.0	4142.8	4156.3
15°	3680.8	3671.5	3694.3	3741.9	3834.1	3971.9	4109.7	4182.2	4201.9	4217.4
17.5°	3765.7	3748.1	3757.5	3774.0	3827.9	3946.0	4132.5	4252.7	4282.7	4299.3
20°	3962.6	3937.7	3923.2	3890.1	3880.7	3950.1	4130.4	4337.6	4377.0	4397.7
22.5°	4224.7	4208.1	4177.0	4093.1	4001.9	4000.9	4169.8	4446.4	4519.9	4539.6
25°	4541.7	4516.8	4477.5	4363.5	4188.4	4101.4	4236.1	4585.2	4708.5	4713.7
27.5°	4906.3	4869.1	4815.2	4665.0	4428.8	4258.9	4337.6	4744.7	4925.0	4922.9
30°	5290.7	5253.4	5196.4	5014.1	4716.8	4471.2	4478.5	4916.7	5181.9	5170.5
32.5°	5571.4	5543.5	5532.1	5391.2	5048.3	4721.9	4640.1	5107.3	5498.9	5488.6
35°	5786.9	5750.7	5764.1	5692.6	5409.8	5002.7	4838.0	5334.2	5884.3	5883.3
37.5°	6000.3	5968.2	5979.6	5932.0	5744.4	5359.1	5079.4	5611.8	6361.9	6384.7
40°	6195.1	6160.9	6206.5	6161.9	6004.5	5738.2	5353.9	5925.7	6915.1	6958.6
42.5°	6312.2	6285.2	6360.8	6361.9	6230.3	6058.3	5655.4	6271.8	7555.3	7652.7
45°	6352.6	6343.2	6457.2	6481.0	6430.3	6243.8	5926.8	6648.8	8245.3	8419.3
47.5°	6309.1	6291.4	6448.9	6537.0	6577.4	6330.8	6151.6	7057.0	8949.7	9204.6
50°	6089.4	6055.2	6289.4	6474.8	6618.8	6387.8	6378.5	7528.4	9750.5	10029.2
52.5°	5694.7	5668.8	5935.1	6257.3	6527.6	6415.8	6633.3	8043.3	10510.9	10871.5
55°	5190.2	5156.0	5449.2	5869.8	6300.8	6406.4	6888.2	8619.3	11408.1	11773.8
57.5°	4390.4	4322.1	4692.9	5190.2	5930.9	6395.0	7153.4	9192.2	12319.7	12758.0
60°	3223.9	3122.4	3577.2	4166.7	5207.8	6284.2	7481.8	9834.5	13413.7	13808.4
62.5°	1877.2	1818.1	2115.4	2665.5	3925.3	5631.5	7666.2	10581.4	14489.1	14903.5
65°	1457.6	1441.0	1466.9	1509.4	2184.9	4216.4	7097.4	11309.7	15856.5	16146.6
67.5°	1333.3	1320.9	1332.3	1252.5	1108.5	2348.5	5615.0	11494.1	17321.4	17497.5
70°	1185.1	1170.6	1207.9	1139.6	872.3	1068.1	3628.0	10824.8	18486.9	18817.3
72.5°	965.5	948.9	1036.0	1004.9	734.5	685.8	1822.3	9234.6	18364.6	19050.4
75°	741.8	732.4	836.0	861.9	598.8	539.7	874.4	6864.3	16161.1	16852.1
77.5°	576.0	568.7	621.6	715.9	482.8	418.5	537.7	4354.2	12178.9	12300.1
80°	432.0	411.3	460.0	554.2	376.1	305.6	364.7	2539.2	7698.3	6978.3
82.5°	270.4	260.0	300.4	369.8	265.2	210.3	237.2	1402.7	3085.1	1817.1
85°	154.4	150.2	163.7	211.3	144.0	121.2	135.7	619.5	563.6	387.5
87.5°	62.2	60.1	74.6	94.3	52.8	44.5	47.7	149.2	124.3	115.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3931.5	0°	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5
3947.0	2.5°	3942.9	3942.9	3928.4	3905.6	3879.7	3863.1	3836.2	3828.9	3801.0	3792.7
3982.3	5°	3990.6	3982.3	3937.7	3873.5	3785.4	3704.6	3615.5	3559.6	3480.9	3452.9
4051.7	7.5°	4050.6	4027.8	3951.2	3810.3	3625.9	3444.6	3256.1	3113.1	2976.3	2927.6
4108.7	10°	4105.5	4073.4	3942.9	3696.3	3377.3	3063.4	2762.9	2552.6	2393.1	2327.8
4171.8	12.5°	4160.5	4101.4	3888.0	3506.8	3024.0	2598.2	2278.1	2114.4	2016.0	1937.3
4223.6	15°	4212.3	4129.4	3803.0	3252.9	2636.5	2204.5	1968.3	1837.8	1759.1	1707.3
4299.3	17.5°	4272.3	4153.2	3675.6	2930.8	2267.7	1932.1	1739.4	1660.7	1645.1	1638.9
4402.9	20°	4356.2	4175.0	3507.8	2570.2	1996.3	1714.5	1615.1	1607.8	1606.8	1603.7
4527.2	22.5°	4446.4	4200.9	3286.1	2242.9	1765.3	1578.8	1561.2	1546.7	1537.4	1536.3
4677.4	25°	4553.1	4209.1	3008.5	1974.6	1568.5	1514.6	1493.9	1472.1	1465.9	1465.9
4848.3	27.5°	4656.7	4181.2	2685.2	1741.5	1457.6	1455.5	1428.6	1421.3	1420.3	1423.4
5043.1	30°	4760.3	4128.3	2364.1	1526.0	1393.4	1393.4	1384.1	1389.2	1393.4	1403.7
5310.4	32.5°	4900.1	4072.4	2095.8	1366.4	1337.4	1327.1	1336.4	1346.8	1350.9	1364.4
5661.6	35°	5105.3	4033.0	1882.4	1279.4	1279.4	1266.0	1271.1	1269.1	1259.7	1253.5
6086.3	37.5°	5376.7	4031.0	1706.2	1239.0	1230.7	1228.7	1229.7	1216.2	1180.0	1136.5
6600.2	40°	5703.0	4086.9	1570.5	1211.0	1204.8	1217.3	1211.0	1174.8	1075.3	999.7
7232.1	42.5°	6141.2	4246.4	1483.5	1176.9	1195.5	1211.0	1186.2	1060.8	993.5	942.7
7952.1	45°	6657.1	4505.4	1439.0	1140.6	1177.9	1196.5	1076.4	1021.5	967.6	906.5
8737.4	47.5°	7241.4	4831.8	1428.6	1106.4	1138.5	1149.9	1029.8	1004.9	943.8	877.5
9526.8	50°	7877.5	5218.2	1456.6	1066.0	1081.6	1042.2	1014.2	991.4	928.2	863.0
10335.9	52.5°	8535.3	5644.0	1512.5	1011.1	1024.6	981.1	1008.0	988.3	918.9	830.8
11171.9	55°	9181.8	6072.9	1566.4	946.9	966.6	926.2	990.4	975.9	876.4	777.0
12063.9	57.5°	9838.6	6499.7	1619.2	889.9	910.6	873.3	962.4	942.7	828.8	727.3
13037.7	60°	10521.3	6914.1	1644.1	835.0	849.5	824.6	919.9	885.8	774.9	676.5
13994.9	62.5°	11160.5	7259.0	1603.7	780.1	789.4	779.0	864.0	818.4	721.0	619.5
14992.5	65°	11801.8	7464.2	1479.4	726.2	728.3	723.1	785.3	745.9	657.8	569.8
15865.9	67.5°	12382.9	7579.1	1281.5	668.2	663.0	660.9	711.7	667.2	596.7	520.1
16529.9	70°	12506.2	7287.0	979.0	599.8	599.8	594.6	630.9	585.3	529.4	467.2
16054.4	72.5°	11422.6	6129.8	695.1	522.1	530.4	520.1	550.1	511.8	461.0	419.6
13836.4	75°	9210.8	4495.1	505.6	442.4	456.9	439.3	467.2	440.3	396.8	395.7
9535.1	77.5°	6328.7	2779.5	366.7	364.7	375.0	352.2	384.3	369.8	330.5	312.9
4150.1	80°	2700.8	1108.5	267.3	281.8	281.8	261.1	298.4	302.5	268.3	260.0
800.8	82.5°	537.7	314.9	187.5	193.7	182.3	176.1	211.3	234.1	323.2	359.5
241.4	85°	161.6	116.0	112.9	105.7	93.2	94.3	124.3	235.2	290.1	165.8
79.8	87.5°	44.5	29.0	30.0	23.8	19.7	25.9	42.5	178.2	97.4	41.4
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>
3931.5
3806.2
3473.6
2933.9
2342.3
1963.2
1716.6
1643.0
1614.0
1547.7
1472.1
1431.7
1411.0
1375.8
1268.0
1137.5
997.6
940.7
902.3
872.3
855.7
824.6
771.8
725.2
673.4
618.5
563.6
513.8
465.2
407.1
356.4
293.2
260.0
360.5
143.0
35.2
0.0

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