

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: P951421

Luminaire Tested: **GALN-SB5C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33771 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

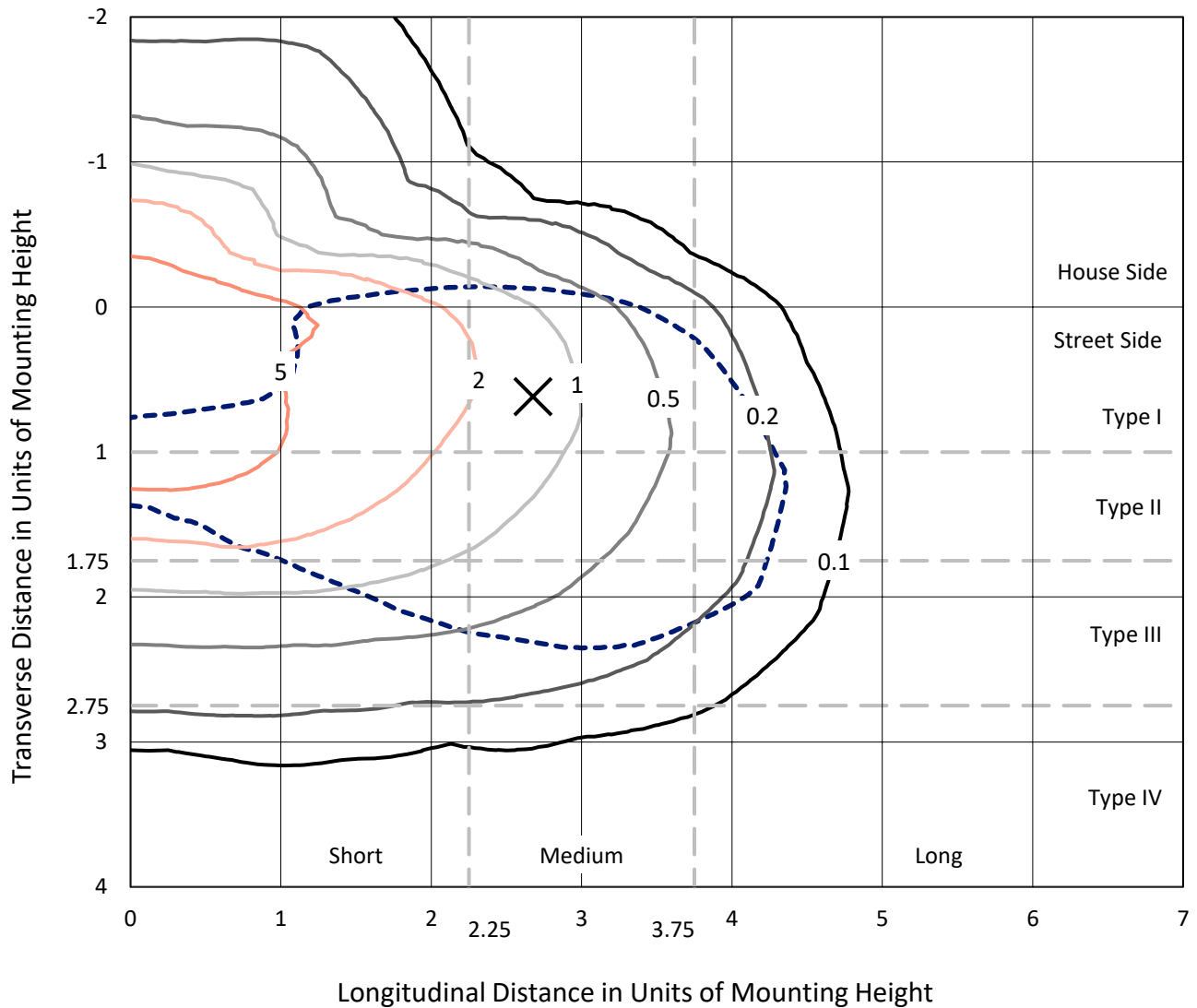
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

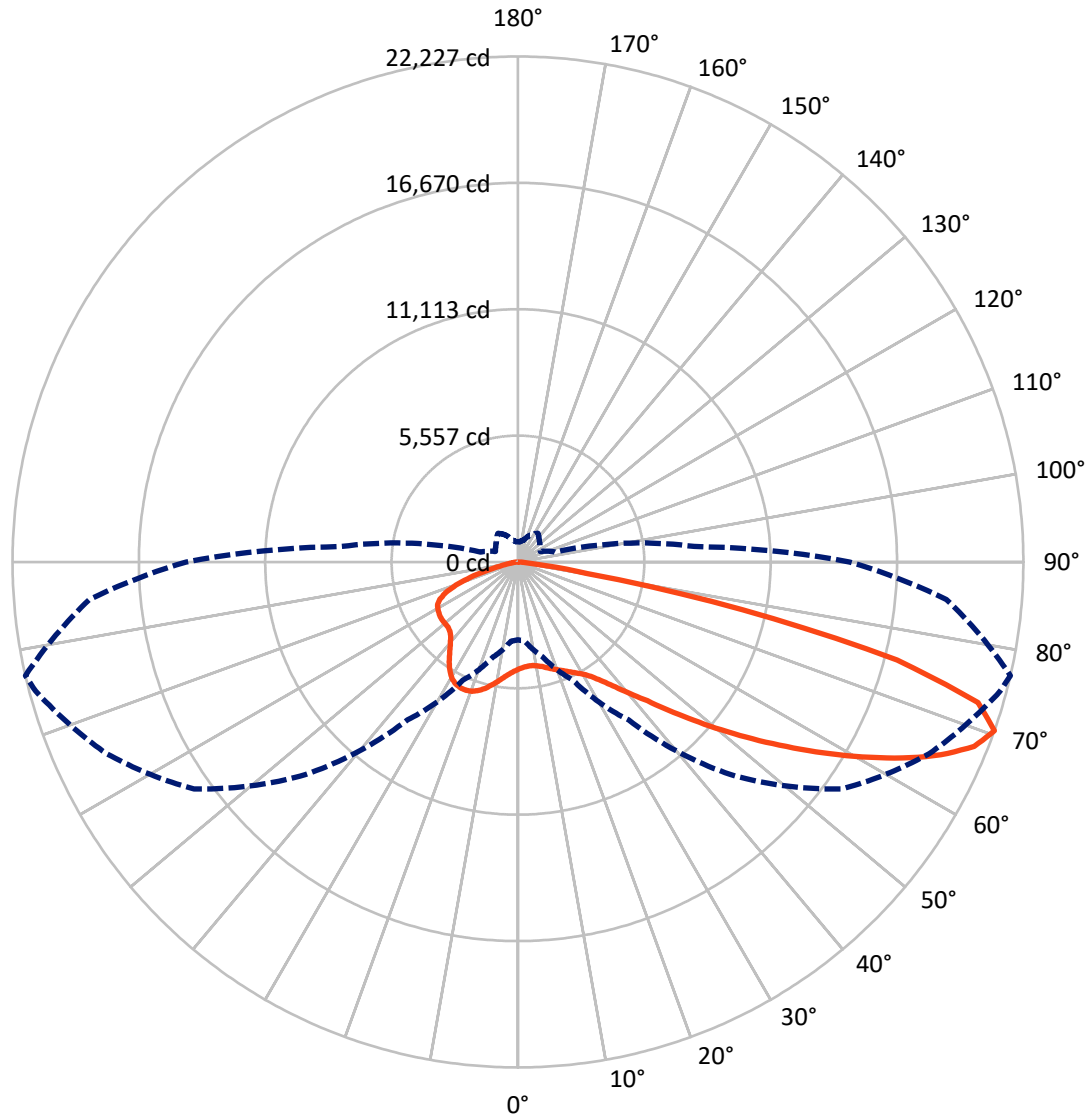
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7395.3	0.0	7395.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26375.7	0.0	26375.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	33771.0	0.0	33771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.3	1.3
10°-20°	1296.8	3.8
20°-30°	2217.8	6.6
30°-40°	3566.4	10.6
40°-50°	5568.1	16.5
50°-60°	7437.6	22.0
60°-70°	7927.3	23.5
70°-80°	4880.0	14.5
80°-90°	427.6	1.3
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°	33771.0	100.0
0°-180°	33771.0	100.0

Coefficient of Utilization



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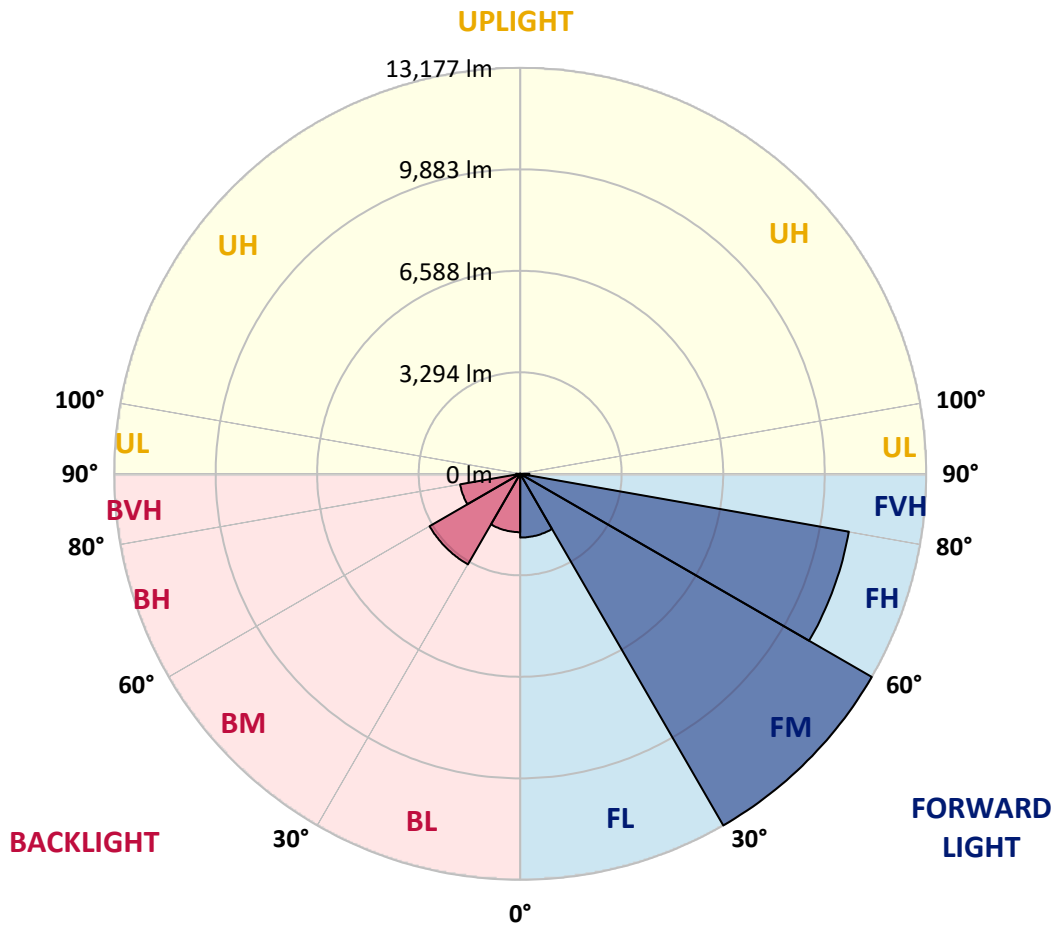
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.0	6.1			
FM (30°-60°)	13176.7	39.0			
FH (60°-80°)	10830.9	32.1			G4/12000
FVH (80°-90°)	299.0	0.9			G3/500
BL (0°-30°)	1894.9	5.6	B3/2500		
BM (30°-60°)	3395.4	10.1	B3/5000		
BH (60°-80°)	1976.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	128.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4
2.5°	4343.0	4341.2	4363.7	4370.6	4412.1	4441.5	4496.9	4555.7	4631.8	4640.5
5°	4092.2	4092.2	4118.1	4145.8	4199.4	4258.2	4343.0	4445.0	4576.5	4597.2
7.5°	3879.4	3893.3	3915.8	3969.4	4031.6	4116.4	4246.1	4391.4	4564.3	4597.2
10°	3708.2	3723.8	3751.4	3794.7	3888.1	4005.7	4175.2	4362.0	4593.8	4645.6
12.5°	3654.6	3670.2	3685.7	3718.6	3805.1	3943.4	4145.8	4375.8	4664.7	4716.6
15°	3779.1	3798.1	3786.0	3777.4	3822.4	3948.6	4159.6	4426.0	4752.9	4827.2
17.5°	4066.2	4073.1	4045.5	3964.2	3957.3	4024.7	4225.4	4495.2	4863.6	4944.9
20°	4529.8	4517.7	4460.6	4299.7	4208.1	4194.2	4337.8	4598.9	4977.7	5064.2
22.5°	5159.3	5145.5	5031.3	4777.1	4573.0	4438.1	4500.4	4733.8	5105.7	5202.6
25°	5944.5	5925.5	5757.8	5411.8	5095.3	4761.5	4721.7	4912.0	5263.1	5353.0
27.5°	6861.2	6845.7	6664.1	6207.4	5750.8	5204.3	4996.7	5121.3	5427.4	5529.5
30°	7847.1	7892.1	7570.4	7079.2	6501.5	5782.0	5366.9	5379.0	5640.1	5731.8
32.5°	9005.9	9083.7	8696.3	8073.7	7285.0	6409.8	5833.9	5738.7	5949.7	6025.8
35°	10154.3	10242.5	9920.8	9232.5	8324.4	7150.1	6321.6	6152.1	6361.4	6444.4
37.5°	11147.1	11264.7	11098.7	10500.3	9436.6	8042.5	6958.1	6638.1	6868.1	6971.9
40°	11930.6	12110.5	12098.4	11724.8	10747.6	9125.2	7765.8	7238.3	7497.7	7610.1
42.5°	12567.1	12722.8	12857.7	12838.6	12115.7	10355.0	8715.3	8018.3	8215.5	8345.2
45°	13006.4	13172.4	13463.0	13776.1	13431.9	11671.2	9803.2	8943.6	9123.5	9319.0
47.5°	13399.0	13587.5	13964.6	14461.0	14549.2	12992.6	10994.9	10021.2	10185.5	10387.8
50°	13433.6	13596.2	14180.8	14884.7	15343.1	14262.1	12274.8	11230.1	11384.1	11600.3
52.5°	12598.2	12854.2	13874.7	14872.6	15708.0	15324.0	13546.0	12487.5	12660.5	12919.9
55°	9779.0	10154.3	12977.0	14409.1	15578.3	16010.7	14755.0	13824.5	14045.9	14317.4
57.5°	8423.0	8587.3	10301.3	13565.1	14986.8	16188.8	15775.5	15175.3	15531.6	15829.1
60°	7570.4	7707.0	8720.5	12252.3	14208.5	15906.9	16564.1	16434.4	17050.2	17404.7
62.5°	6657.1	6786.9	7708.7	10230.4	13212.2	15438.2	17062.3	17596.7	18606.8	18994.2
65°	5750.8	5861.5	6745.3	8596.0	11946.2	14969.5	17320.0	18601.6	20047.5	20448.8
67.5°	4740.8	4832.4	5667.8	7252.1	10406.9	14327.8	17448.0	19392.0	21301.4	21645.6
70°	3421.1	3492.0	4355.1	5735.3	8474.9	13224.3	17396.1	19952.4	21951.8	22226.8
72.5°	1617.2	1681.1	2694.7	3723.8	5986.1	11076.2	16346.2	19507.9	21291.1	21154.4
75°	863.1	918.4	1548.0	2042.6	3161.7	7592.8	13376.5	16804.6	17878.6	17214.5
77.5°	584.6	627.8	958.2	1226.3	1444.2	3604.4	8597.7	11634.9	11193.8	10097.3
80°	463.5	508.5	785.2	830.2	698.7	1302.4	3552.5	5385.9	3869.1	3094.2
82.5°	356.3	406.5	660.7	601.9	380.5	534.4	1034.3	1703.6	991.0	754.1
85°	217.9	271.5	518.9	384.0	214.5	243.9	351.1	473.9	302.7	252.5
87.5°	110.7	155.7	262.9	140.1	96.9	57.1	93.4	93.4	79.6	69.2
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°
4711.4	0°	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4	4711.4
4687.1	2.5°	4728.7	4763.2	4822.1	4877.4	4920.6	4962.2	5003.7	5026.1	5033.1	5060.7
4713.1	5°	4784.0	4848.0	4962.2	5069.4	5136.8	5178.3	5207.8	5225.0	5228.5	5237.2
4784.0	7.5°	4886.0	4988.1	5147.2	5254.4	5304.6	5301.1	5289.0	5245.8	5228.5	5212.9
4887.8	10°	5029.6	5164.5	5360.0	5434.3	5403.2	5320.2	5212.9	5086.7	5027.9	4970.8
5029.6	12.5°	5207.8	5379.0	5571.0	5567.5	5413.6	5200.8	4951.8	4758.1	4635.3	4547.1
5204.3	15°	5423.9	5621.1	5768.1	5650.5	5313.3	4931.0	4566.1	4313.6	4202.9	4106.0
5380.7	17.5°	5647.1	5858.1	5925.5	5624.6	5060.7	4531.5	4118.1	3919.2	3810.3	3758.4
5571.0	20°	5865.0	6074.3	6018.9	5475.8	4676.8	4078.3	3709.9	3601.0	3578.5	3590.6
5756.0	22.5°	6095.0	6281.8	6037.9	5188.7	4187.3	3614.8	3412.5	3415.9	3466.1	3502.4
5949.7	25°	6330.2	6456.5	5987.8	4773.6	3661.5	3274.1	3223.9	3279.3	3377.9	3448.8
6167.7	27.5°	6556.8	6612.2	5878.8	4259.9	3210.1	3030.2	3038.9	3153.0	3301.8	3400.3
6432.3	30°	6812.8	6750.5	5669.5	3682.3	2897.0	2820.9	2893.6	3026.8	3175.5	3263.7
6766.1	32.5°	7101.6	6869.9	5337.5	3147.8	2675.7	2653.2	2772.5	2859.0	2924.7	2950.7
7208.9	35°	7461.4	7037.6	4912.0	2772.5	2476.8	2530.4	2644.5	2601.3	2575.3	2561.5
7803.8	37.5°	7928.4	7264.2	4413.9	2528.6	2315.9	2442.2	2488.9	2354.0	2251.9	2201.7
8525.1	40°	8490.5	7596.3	3934.8	2340.1	2213.9	2366.1	2284.8	2122.2	1992.5	1921.6
9336.2	42.5°	9114.9	7943.9	3531.8	2198.3	2156.8	2303.8	2134.3	1940.6	1731.3	1708.8
10303.1	45°	9770.4	8302.0	3256.8	2089.3	2129.1	2250.2	2047.8	1734.8	1586.0	1677.7
11273.4	47.5°	10425.9	8630.6	3090.8	2008.0	2115.3	2189.6	1971.7	1620.6	1515.1	1648.3
12312.8	50°	11155.8	8924.6	3016.4	1949.2	2099.7	2165.4	1857.6	1591.2	1440.7	1528.9
13388.6	52.5°	11880.5	9152.9	2961.0	1890.4	2077.2	2146.4	1802.2	1556.6	1350.8	1356.0
14471.4	55°	12603.4	9301.7	2900.5	1812.6	2027.1	2104.9	1797.0	1518.6	1283.3	1259.1
15616.3	57.5°	13374.8	9386.4	2826.1	1726.1	1940.6	1999.4	1791.8	1489.2	1262.6	1222.8
16787.3	60°	14160.0	9510.9	2729.3	1620.6	1824.7	1873.1	1779.7	1478.8	1250.5	1183.0
17890.7	62.5°	14864.0	9554.2	2613.4	1520.3	1676.0	1748.6	1753.8	1470.1	1217.6	1101.7
18807.4	65°	15325.8	9367.4	2411.0	1406.1	1515.1	1620.6	1703.6	1440.7	1158.8	1042.9
19260.5	67.5°	15306.7	8834.7	2094.5	1259.1	1359.4	1478.8	1631.0	1390.6	1087.9	970.3
18918.1	70°	14594.2	7783.1	1693.3	1087.9	1188.2	1326.6	1537.6	1316.2	1003.2	890.7
16821.8	72.5°	12516.9	6091.6	1229.7	887.3	989.3	1169.2	1416.5	1226.3	916.7	819.8
12432.2	75°	8941.9	3855.2	833.7	681.5	769.7	991.0	1266.0	1120.8	837.1	823.3
6226.5	77.5°	4567.8	1842.0	551.7	498.1	536.2	781.8	1063.7	1001.4	849.2	679.7
1771.1	80°	1485.7	679.7	347.6	339.0	356.3	520.6	823.3	821.5	643.4	461.8
428.9	82.5°	473.9	292.3	226.6	217.9	209.3	326.9	574.2	650.3	434.1	292.3
153.9	85°	188.5	174.7	133.2	122.8	88.2	153.9	300.9	432.4	323.4	211.0
39.8	87.5°	69.2	69.2	36.3	25.9	19.0	51.9	81.3	129.7	185.1	109.0
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>
4711.4
5076.3
5251.0
5216.4
4953.5
4526.3
4095.6
3773.9
3585.4
3511.0
3467.8
3424.6
3284.5
2964.5
2575.3
2213.9
1926.7
1731.3
1726.1
1710.5
1594.7
1392.3
1276.4
1228.0
1188.2
1101.7
1042.9
975.5
<i>901.1</i>
814.6
776.6
605.4
408.2
290.6
216.2
107.2
0.0

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