

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: P950760

Luminaire Tested: **GALN-SB5A-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950760
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-SB5A-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 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: 21183 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

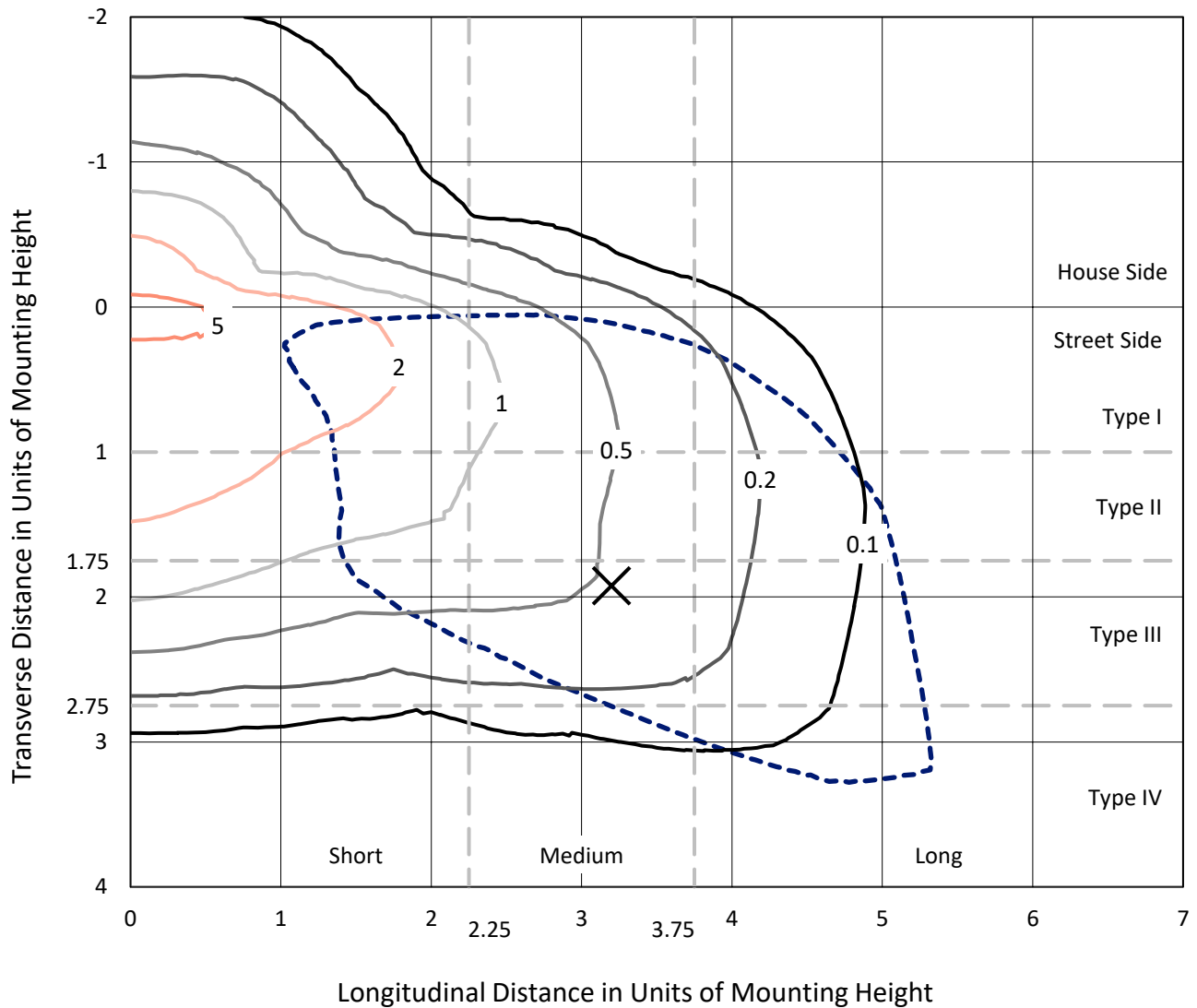
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

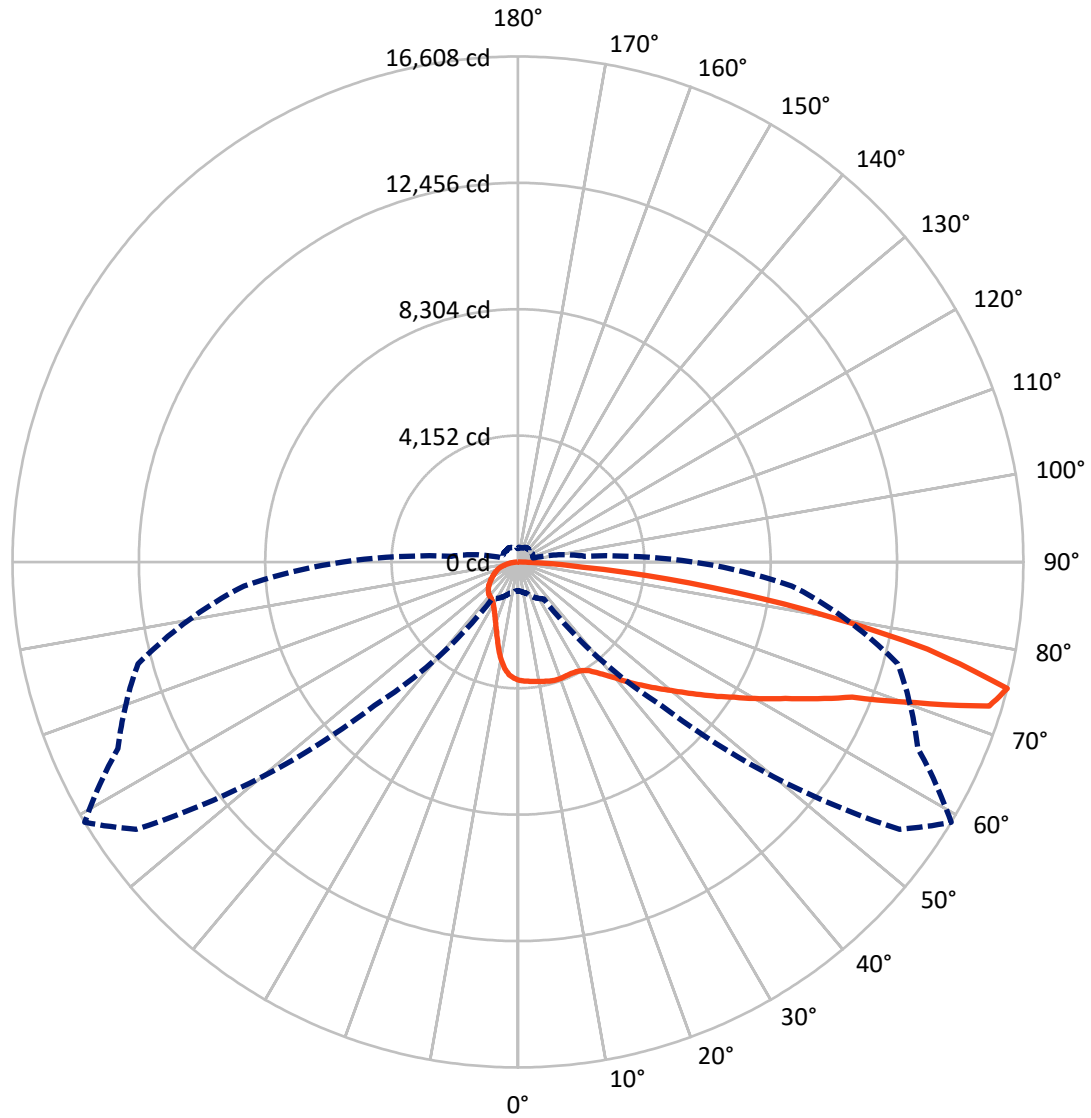
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	3973.0	0.0	3973.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17210.0	0.0	17210.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	21183.0	0.0	21183.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.6
10°-20°	891.1	4.2
20°-30°	1353.5	6.4
30°-40°	2012.0	9.5
40°-50°	2992.2	14.1
50°-60°	4061.6	19.2
60°-70°	4958.5	23.4
70°-80°	3891.4	18.4
80°-90°	674.1	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°	21183.0	100.0
0°-180°	21183.0	100.0



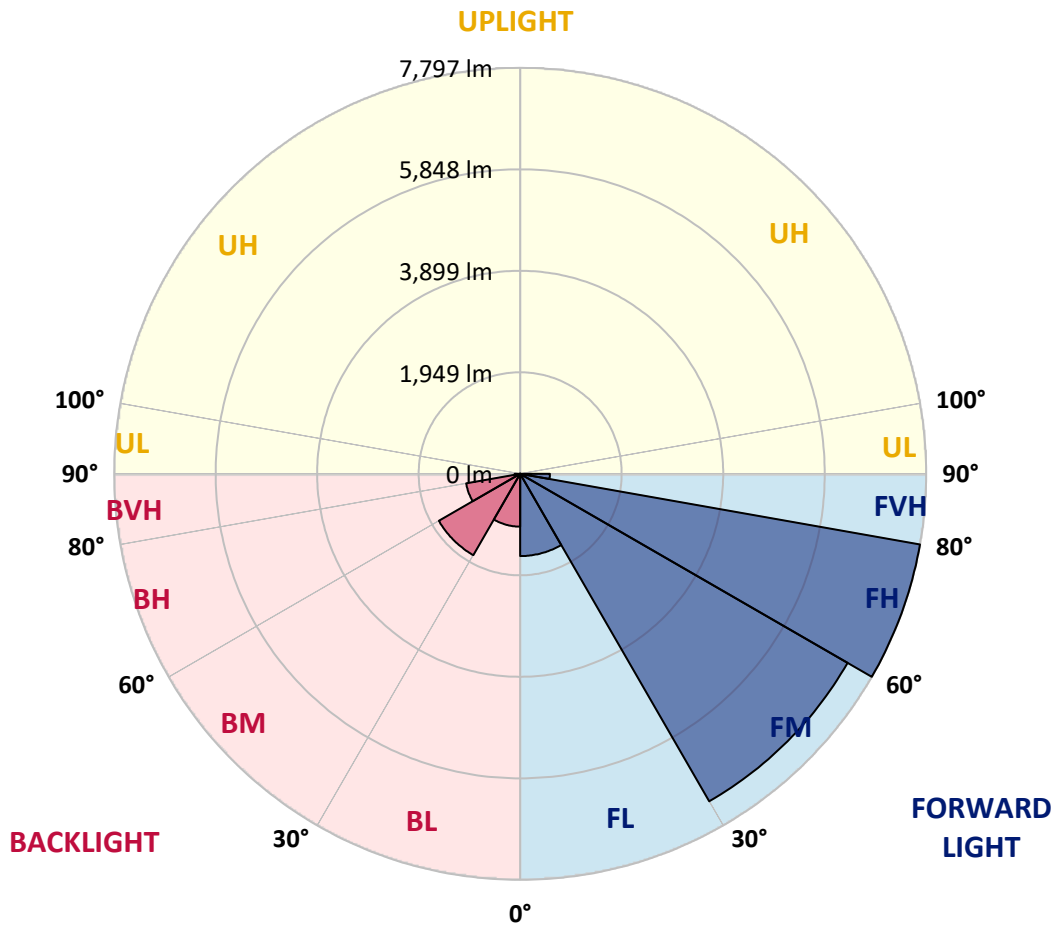
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.4	7.5			
FM (30°-60°)	7262.4	34.3			
FH (60°-80°)	7797.3	36.8			G4/12000
FVH (80°-90°)	570.9	2.7			G4/750
BL (0°-30°)	1013.9	4.8	B3/2500		
BM (30°-60°)	1803.4	8.5	B2/2500		
BH (60°-80°)	1052.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	103.2	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°	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1
2.5°	3921.1	3907.5	3921.1	3915.4	3913.2	3908.6	3909.7	3917.7	3913.2	3918.9
5°	3894.9	3887.0	3900.6	3897.2	3912.0	3914.3	3929.1	3938.2	3943.9	3945.1
7.5°	3851.6	3843.7	3863.0	3879.0	3910.9	3920.0	3950.8	3965.6	3973.6	3987.2
10°	3693.2	3689.8	3737.7	3798.1	3873.3	3920.0	3966.7	3991.8	4004.3	4040.8
12.5°	3412.9	3417.5	3480.1	3596.4	3746.8	3897.2	3985.0	4021.4	4040.8	4086.4
15°	3145.1	3144.0	3212.3	3336.6	3547.4	3796.9	3994.1	4056.7	4089.8	4157.0
17.5°	2990.1	2985.6	3033.4	3128.0	3324.0	3643.1	3971.3	4076.1	4146.8	4231.1
20°	2961.7	2952.5	2977.6	3024.3	3163.3	3474.4	3912.0	4076.1	4192.3	4301.7
22.5°	3065.3	3050.5	3040.3	3034.6	3096.1	3335.4	3844.8	4062.4	4259.6	4403.2
25°	3273.9	3251.1	3198.7	3147.4	3129.2	3272.7	3785.5	4059.0	4359.9	4539.9
27.5°	3611.2	3582.7	3476.7	3353.7	3243.1	3304.7	3759.3	4079.5	4470.4	4684.6
30°	4029.4	3998.6	3865.3	3676.1	3477.9	3423.2	3792.4	4139.9	4611.7	4877.2
32.5°	4404.3	4370.1	4256.2	4063.6	3795.8	3628.3	3897.2	4255.0	4833.9	5145.0
35°	4737.0	4697.2	4594.6	4416.8	4185.5	3916.6	4086.4	4459.0	5149.6	5580.3
37.5°	5063.0	5016.2	4904.6	4716.5	4554.7	4300.6	4347.3	4721.1	5568.9	6109.0
40°	5427.6	5360.4	5224.8	5039.0	4881.8	4750.7	4690.3	5042.4	5995.1	6699.3
42.5°	5780.9	5717.0	5555.2	5396.8	5199.7	5162.1	5088.0	5418.5	6461.2	7347.7
45°	6161.5	6085.1	5889.1	5688.6	5564.3	5435.6	5473.2	5794.5	6918.1	8008.6
47.5°	6518.1	6432.7	6201.3	5978.0	5909.6	5665.8	5826.4	6208.2	7393.3	8678.7
50°	6710.7	6626.4	6433.8	6232.1	6178.6	5949.5	6209.3	6662.9	7891.3	9346.5
52.5°	6871.4	6780.2	6528.4	6416.7	6400.8	6258.3	6681.1	7182.5	8389.3	9936.7
55°	7042.3	6940.9	6619.6	6519.3	6592.2	6604.7	7240.6	7771.6	8915.7	10512.2
57.5°	7239.5	7110.7	6707.3	6605.9	6779.1	7010.4	7883.3	8382.4	9433.1	11045.5
60°	7425.2	7295.3	6876.0	6743.8	6980.8	7481.0	8620.6	9122.0	10018.8	11520.7
62.5°	7461.7	7354.6	7010.4	7009.3	7254.3	8030.3	9493.5	9868.4	10530.4	11990.2
65°	6830.4	6763.1	6559.2	6999.0	7646.3	8821.1	10465.5	10823.3	11181.1	12400.4
67.5°	5198.6	5207.7	5192.9	6041.8	7329.5	9957.3	11872.8	11845.5	11984.5	12860.8
70°	2377.1	2430.6	2779.3	4170.7	5872.0	10088.3	14199.7	13845.3	12993.0	13456.8
72.5°	1284.3	1325.3	1467.7	2020.4	3530.3	8969.3	15938.7	16190.5	14334.2	13857.9
75°	942.4	965.2	1064.3	1284.3	1482.5	6666.3	15315.3	16607.6	14501.7	12922.3
77.5°	705.4	715.6	796.5	1017.6	758.9	3514.3	12237.5	13754.2	12414.1	10617.0
80°	511.7	523.0	583.4	763.5	532.2	1285.4	8402.9	9654.1	8502.1	6767.7
82.5°	353.3	357.8	384.0	519.6	371.5	499.1	4767.8	5661.2	4746.2	2374.8
85°	213.1	218.8	230.2	303.1	210.8	237.0	2058.0	2128.7	1418.7	567.5
87.5°	87.7	93.4	102.6	127.6	83.2	66.1	339.6	426.2	265.5	166.4
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°
3888.1	0°	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1
3899.5	2.5°	3893.8	3885.8	3864.2	3834.5	3807.2	3773.0	3758.2	3745.7	3734.3	3712.6
3930.3	5°	3917.7	3896.1	3838.0	3762.7	3677.3	3583.8	3492.7	3430.0	3376.4	3336.6
3965.6	7.5°	3954.2	3913.2	3807.2	3653.3	3457.3	3256.8	3075.6	2946.8	2850.0	2814.7
4015.7	10°	3991.8	3942.8	3758.2	3487.0	3148.5	2839.7	2599.3	2467.1	2389.6	2364.5
4075.0	12.5°	4036.2	3964.4	3681.8	3255.7	2803.3	2464.8	2255.1	2177.7	2137.8	2124.1
4147.9	15°	4101.2	3982.7	3566.7	2966.2	2473.9	2191.3	2055.7	2002.2	1981.7	1980.5
4223.1	17.5°	4150.2	3986.1	3387.8	2656.3	2221.0	2026.1	1914.4	1893.9	1907.6	1928.1
4297.2	20°	4204.9	3955.3	3153.1	2373.7	2043.2	1881.4	1834.7	1848.3	1881.4	1911.0
4395.2	22.5°	4243.6	3899.5	2869.3	2153.7	1889.3	1798.2	1795.9	1824.4	1842.6	1857.4
4510.3	25°	4277.8	3804.9	2568.5	1969.1	1762.9	1748.0	1773.1	1764.0	1751.5	1764.0
4625.4	27.5°	4302.9	3655.6	2299.6	1807.3	1674.0	1713.9	1699.0	1678.5	1677.4	1684.2
4761.0	30°	4294.9	3456.2	2078.5	1653.5	1611.3	1650.0	1614.7	1611.3	1607.9	1611.3
4965.0	32.5°	4294.9	3229.4	1908.7	1547.5	1571.4	1556.6	1553.2	1545.2	1531.5	1530.4
5241.9	35°	4318.8	3002.7	1762.9	1490.5	1538.4	1503.0	1505.3	1486.0	1457.5	1443.8
5608.8	37.5°	4367.8	2820.3	1618.1	1463.2	1480.3	1479.1	1470.0	1437.0	1386.8	1343.5
6066.9	40°	4486.3	2766.8	1519.0	1450.6	1452.9	1466.6	1442.7	1378.8	1264.9	1194.2
6531.8	42.5°	4672.1	2856.8	1497.3	1419.9	1434.7	1448.3	1401.6	1253.5	1172.6	1130.4
7019.5	45°	4908.0	3014.1	1544.1	1375.4	1391.4	1415.3	1276.3	1205.6	1169.2	1170.3
7502.7	47.5°	5206.5	3179.3	1630.7	1336.7	1328.7	1342.4	1193.1	1149.8	1099.7	1112.2
7966.5	50°	5551.8	3346.8	1712.7	1284.3	1259.2	1214.7	1139.5	1098.5	1034.7	1005.1
8414.3	52.5°	5925.6	3508.6	1745.8	1220.4	1184.0	1132.7	1103.1	1052.9	975.4	926.4
8837.1	55°	6280.0	3655.6	1709.3	1144.1	1108.8	1068.9	1064.3	1033.6	950.4	882.0
9213.1	57.5°	6615.0	3778.7	1618.1	1066.6	1032.4	1008.5	1039.3	1024.4	919.6	831.9
9568.7	60°	6898.7	3863.0	1486.0	988.0	964.0	951.5	998.2	993.7	876.3	778.3
9887.7	62.5°	7124.4	3896.1	1340.1	912.8	907.1	884.3	941.3	941.3	821.6	725.9
10168.1	65°	7301.0	3864.2	1192.0	838.7	850.1	815.9	871.7	864.9	763.5	679.2
10490.6	67.5°	7457.1	3759.3	1027.9	765.8	792.0	748.7	798.8	782.9	699.7	632.4
10769.7	70°	7526.6	3515.5	841.0	692.8	724.7	682.6	725.9	696.3	627.9	582.3
10463.2	72.5°	6968.3	2921.8	662.1	616.5	643.8	609.7	647.3	613.1	550.4	529.9
9035.4	75°	5764.9	2192.5	509.4	533.3	553.8	527.6	552.7	527.6	470.6	485.4
6674.3	77.5°	4186.7	1480.3	389.7	445.6	454.7	441.0	462.7	434.2	382.9	379.5
3326.3	80°	2081.9	867.2	305.4	352.1	348.7	339.6	364.7	351.0	307.7	325.9
898.0	82.5°	602.8	371.5	222.2	247.3	240.4	242.7	261.0	267.8	401.1	397.7
279.2	85°	189.2	145.9	133.3	137.9	131.0	134.5	153.8	305.4	282.6	165.2
86.6	87.5°	49.0	50.1	33.0	35.3	36.5	43.3	49.0	185.7	88.9	58.1
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>
3888.1
3702.3
3303.5
2753.1
2325.8
2127.5
1985.1
1936.1
1921.3
1865.4
1772.0
1695.6
1623.8
1545.2
1457.5
1358.3
1203.3
1130.4
1176.0
1144.1
1013.0
925.3
882.0
827.3
774.9
722.5
674.6
627.9
573.2
512.8
443.3
362.4
322.5
406.8
178.9
61.5
0.0

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