

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: P953994

Luminaire Tested: **GALN-SB7B-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953994
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-SB7B-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37437 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

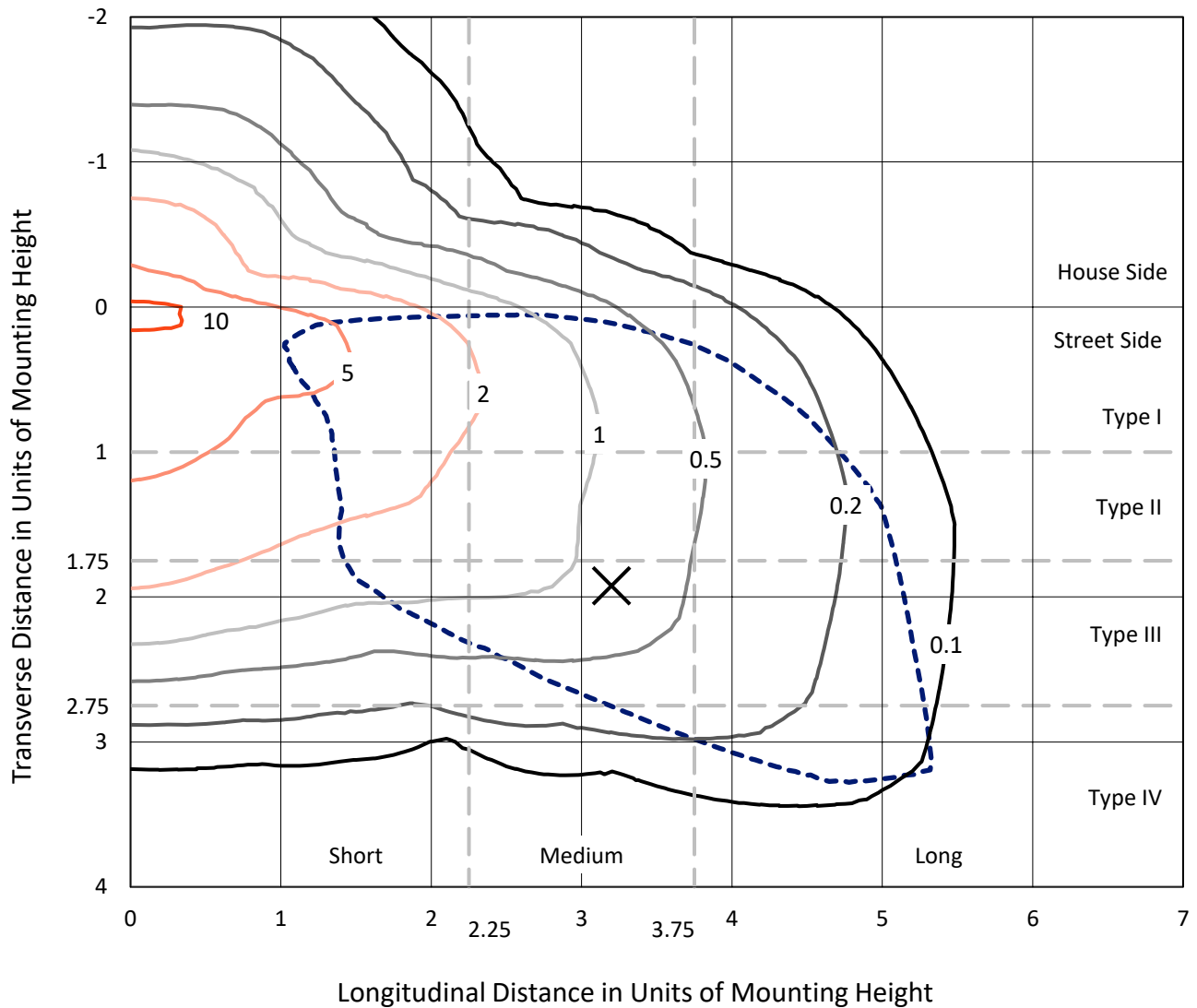
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

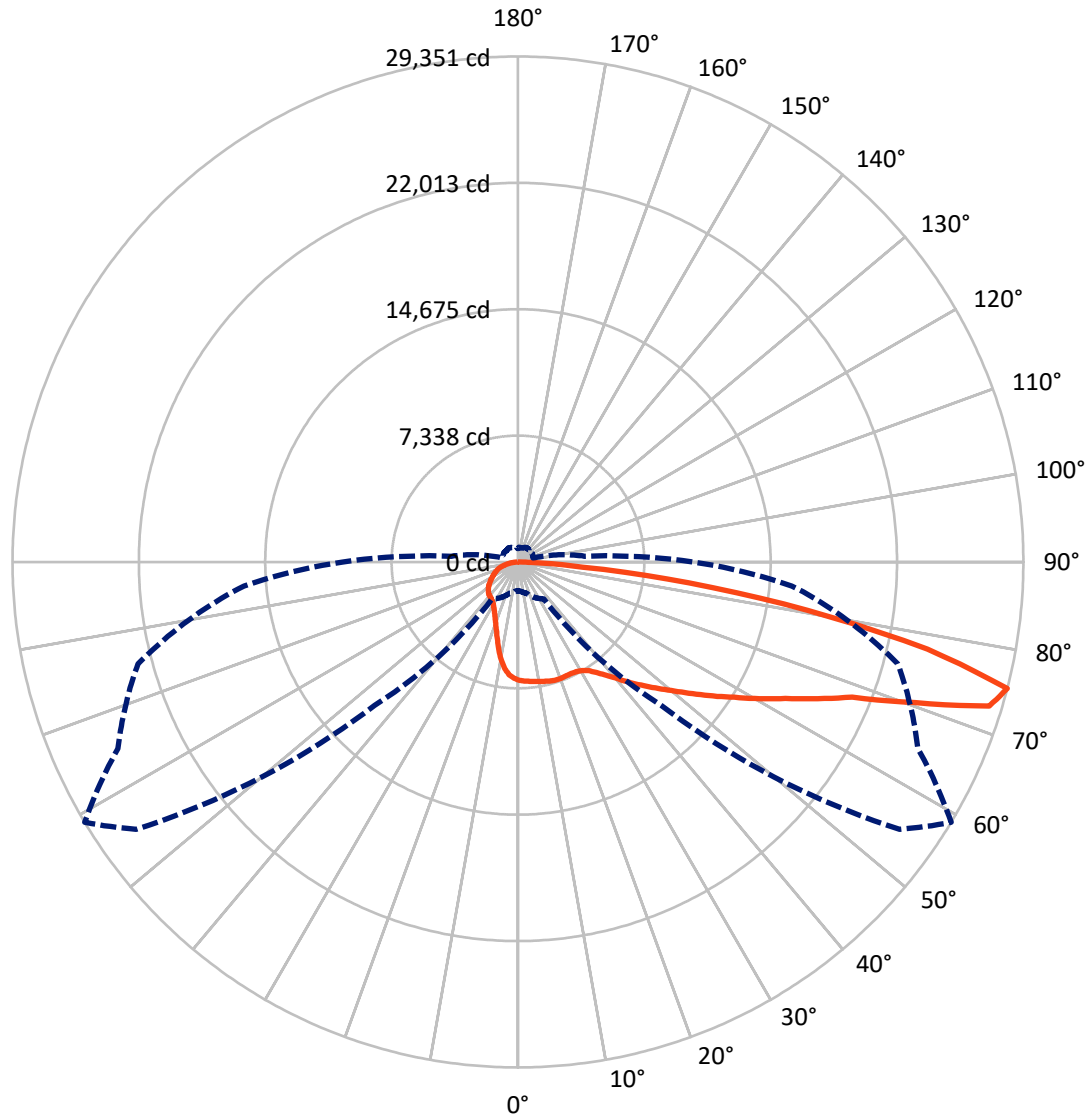
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	7021.6	0.0	7021.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30415.4	0.0	30415.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	37437.0	0.0	37437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	1.6
10°-20°	1574.9	4.2
20°-30°	2392.1	6.4
30°-40°	3555.8	9.5
40°-50°	5288.2	14.1
50°-60°	7178.1	19.2
60°-70°	8763.2	23.4
70°-80°	6877.3	18.4
80°-90°	1191.3	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°	37437.0	100.0
0°-180°	37437.0	100.0

Coefficient of Utilization



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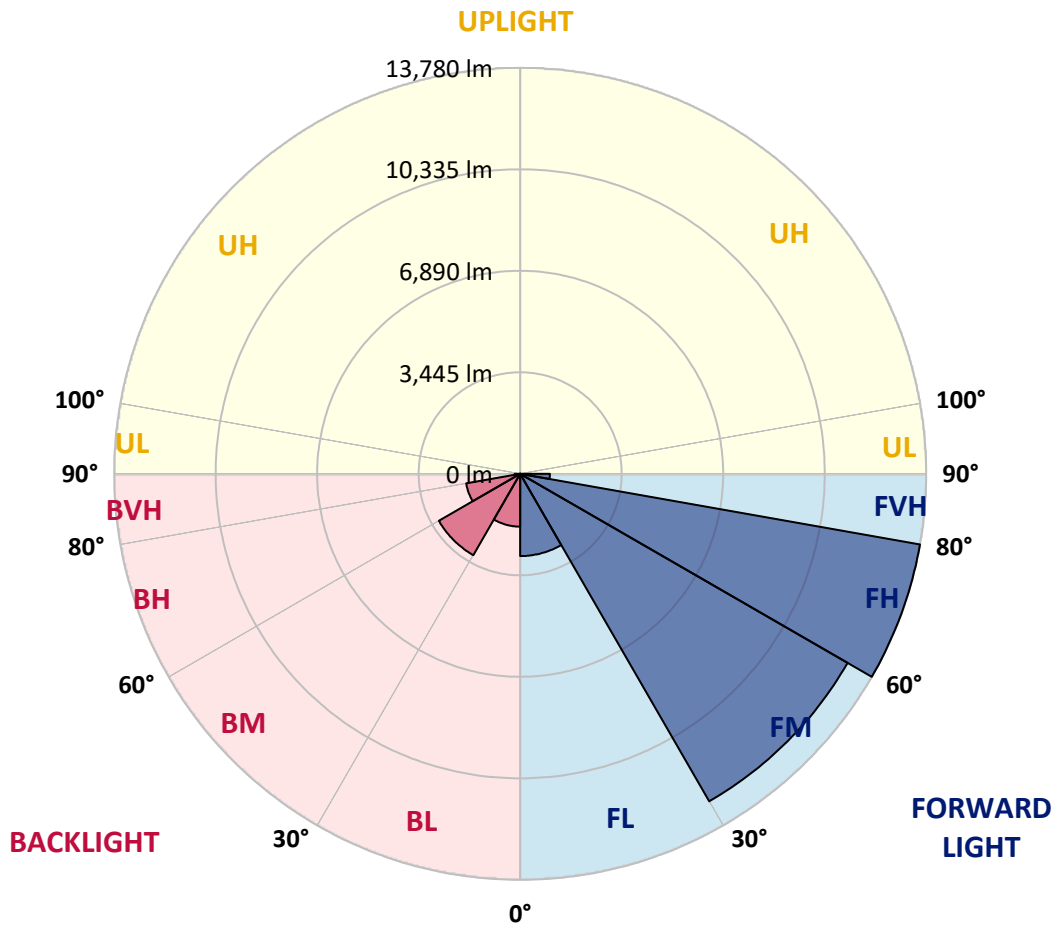
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2791.3	7.5			
FM (30°-60°)	12835.0	34.3			
FH (60°-80°)	13780.2	36.8			G5
FVH (80°-90°)	1008.9	2.7			G5
BL (0°-30°)	1791.8	4.8	B3/2500		
BM (30°-60°)	3187.1	8.5	B3/5000		
BH (60°-80°)	1860.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	182.4	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5
2.5°	6929.9	6905.7	6929.9	6919.8	6915.8	6907.7	6909.7	6923.8	6915.8	6925.9
5°	6883.6	6869.5	6893.6	6887.6	6913.8	6917.8	6944.0	6960.1	6970.2	6972.2
7.5°	6807.0	6792.9	6827.2	6855.4	6911.8	6927.9	6982.2	7008.4	7022.5	7046.7
10°	6527.1	6521.1	6605.6	6712.4	6845.3	6927.9	7010.4	7054.7	7076.9	7141.3
12.5°	6031.7	6039.7	6150.5	6355.9	6621.8	6887.6	7042.7	7107.1	7141.3	7221.9
15°	5558.4	5556.4	5677.2	5896.7	6269.3	6710.4	7058.8	7169.5	7227.9	7346.8
17.5°	5284.5	5276.5	5361.0	5528.2	5874.6	6438.5	7018.5	7203.8	7328.6	7477.7
20°	5234.2	5218.1	5262.4	5344.9	5590.6	6140.4	6913.8	7203.8	7409.2	7602.5
22.5°	5417.4	5391.3	5373.1	5363.1	5471.8	5894.7	6794.9	7179.6	7528.0	7781.8
25°	5786.0	5745.7	5653.1	5562.4	5530.2	5784.0	6690.2	7173.6	7705.2	8023.4
27.5°	6382.1	6331.7	6144.5	5927.0	5731.6	5840.4	6643.9	7209.8	7900.6	8279.2
30°	7121.2	7066.8	6831.2	6496.9	6146.5	6049.8	6702.3	7316.6	8150.3	8619.6
32.5°	7783.8	7723.4	7522.0	7181.6	6708.4	6412.3	6887.6	7520.0	8543.0	9092.8
35°	8371.8	8301.4	8120.1	7805.9	7397.1	6921.8	7221.9	7880.4	9100.9	9862.1
37.5°	8947.8	8865.3	8667.9	8335.6	8049.6	7600.5	7683.1	8343.6	9842.0	10796.6
40°	9592.3	9473.5	9233.8	8905.5	8627.6	8396.0	8289.3	8911.6	10595.2	11839.8
42.5°	10216.6	10103.8	9817.8	9537.9	9189.5	9123.0	8992.1	9576.2	11418.9	12985.7
45°	10889.2	10754.3	10407.9	10053.5	9833.9	9606.4	9672.8	10240.8	12226.5	14153.8
47.5°	11519.6	11368.6	10959.7	10565.0	10444.2	10013.2	10297.1	10971.8	13066.3	15338.0
50°	11859.9	11710.9	11370.6	11014.1	10919.4	10514.7	10973.8	11775.4	13946.4	16518.1
52.5°	12143.9	11982.8	11537.7	11340.4	11312.2	11060.4	11807.6	12693.7	14826.4	17561.3
55°	12446.0	12266.8	11698.8	11521.6	11650.5	11672.7	12796.4	13734.9	15756.9	18578.4
57.5°	12794.4	12566.8	11853.9	11674.7	11980.8	12389.6	13932.3	14814.4	16671.2	19520.9
60°	13122.7	12893.1	12152.0	11918.3	12337.2	13221.4	15235.3	16121.4	17706.3	20360.7
62.5°	13187.1	12997.8	12389.6	12387.6	12820.6	14192.1	16777.9	17440.5	18610.6	21190.4
65°	12071.4	11952.6	11592.1	12369.5	13513.4	15589.7	18495.8	19128.2	19760.5	21915.4
67.5°	9187.5	9203.6	9177.4	10677.8	12953.5	17597.6	20983.0	20934.6	21180.3	22729.0
70°	4201.0	4295.7	4911.9	7370.9	10377.7	17829.2	25095.4	24469.1	22962.7	23782.3
72.5°	2269.7	2342.2	2593.9	3570.7	6239.1	15851.5	28168.6	28613.7	25333.0	24491.2
75°	1665.5	1705.8	1881.0	2269.7	2620.1	11781.4	27067.0	29350.8	25629.1	22837.8
77.5°	1246.6	1264.7	1407.7	1798.4	1341.3	6210.9	21627.4	24308.0	21939.6	18763.6
80°	904.2	924.4	1031.1	1349.3	940.5	2271.7	14850.6	17061.9	15025.8	11960.6
82.5°	624.3	632.4	678.7	918.3	656.5	882.1	8426.2	10005.1	8388.0	4197.0
85°	376.6	386.7	406.8	535.7	372.6	418.9	3637.1	3762.0	2507.3	1002.9
87.5°	155.1	165.1	181.3	225.6	147.0	116.8	600.1	753.2	469.2	294.0
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°
6871.5	0°	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5	6871.5
6891.6	2.5°	6881.5	6867.5	6829.2	6776.8	6728.5	6668.1	6641.9	6619.7	6599.6	6561.3
6946.0	5°	6923.8	6885.6	6782.9	6649.9	6498.9	6333.8	6172.6	6061.9	5967.2	5896.7
7008.4	7.5°	6988.3	6915.8	6728.5	6456.6	6110.2	5755.8	5435.6	5208.0	5036.8	4974.4
7097.0	10°	7054.7	6968.1	6641.9	6162.6	5564.4	5018.7	4593.7	4360.1	4223.2	4178.9
7201.8	12.5°	7133.3	7006.4	6507.0	5753.8	4954.2	4356.1	3985.5	3848.6	3778.1	3753.9
7330.7	15°	7248.1	7038.6	6303.6	5242.2	4372.2	3872.8	3633.1	3538.4	3502.2	3500.2
7463.6	17.5°	7334.7	7044.7	5987.4	4694.4	3925.1	3580.7	3383.4	3347.1	3371.3	3407.5
7594.5	20°	7431.3	6990.3	5572.5	4195.0	3610.9	3325.0	3242.4	3266.6	3325.0	3377.3
7767.7	22.5°	7499.8	6891.6	5071.0	3806.3	3339.1	3178.0	3173.9	3224.3	3256.5	3282.7
7971.1	25°	7560.2	6724.5	4539.4	3480.0	3115.5	3089.3	3133.7	3117.5	3095.4	3117.5
8174.5	27.5°	7604.5	6460.6	4064.1	3194.1	2958.4	3028.9	3002.7	2966.5	2964.5	2976.6
8414.1	30°	7590.4	6108.2	3673.4	2922.2	2847.7	2916.1	2853.7	2847.7	2841.6	2847.7
8774.6	32.5°	7590.4	5707.4	3373.3	2734.9	2777.2	2751.0	2745.0	2730.9	2706.7	2704.7
9264.0	35°	7632.7	5306.7	3115.5	2634.2	2718.8	2656.4	2660.4	2626.1	2575.8	2551.6
9912.5	37.5°	7719.3	4984.4	2859.8	2585.9	2616.1	2614.1	2598.0	2539.5	2450.9	2374.4
10722.1	40°	7928.8	4889.8	2684.5	2563.7	2567.7	2591.9	2549.6	2436.8	2235.4	2110.6
11543.8	42.5°	8257.1	5048.9	2646.3	2509.3	2535.5	2559.7	2477.1	2215.3	2072.3	1997.8
12405.7	45°	8673.9	5326.8	2728.9	2430.8	2459.0	2501.3	2255.6	2130.7	2066.3	2068.3
13259.6	47.5°	9201.6	5618.8	2881.9	2362.3	2348.2	2372.4	2108.6	2032.0	1943.4	1965.6
14079.3	50°	9811.8	5914.9	3026.9	2269.7	2225.4	2146.8	2013.9	1941.4	1828.6	1776.3
14870.7	52.5°	10472.4	6200.8	3085.3	2156.9	2092.5	2001.8	1949.5	1860.9	1723.9	1637.3
15617.9	55°	11098.7	6460.6	3020.9	2022.0	1959.5	1889.1	1881.0	1826.6	1679.6	1558.8
16282.5	57.5°	11690.8	6678.1	2859.8	1885.0	1824.6	1782.3	1836.7	1810.5	1625.2	1470.2
16910.8	60°	12192.2	6827.2	2626.1	1746.1	1703.8	1681.6	1764.2	1756.1	1548.7	1375.5
17474.7	62.5°	12591.0	6885.6	2368.4	1613.1	1603.1	1562.8	1663.5	1663.5	1452.0	1282.9
17970.2	65°	12903.2	6829.2	2106.6	1482.2	1502.4	1442.0	1540.6	1528.6	1349.3	1200.3
18540.1	67.5°	13179.1	6643.9	1816.6	1353.4	1399.7	1323.1	1411.8	1383.6	1236.5	1117.7
19033.5	70°	13301.9	6212.9	1486.3	1224.5	1280.8	1206.3	1282.9	1230.5	1109.7	1029.1
18491.8	72.5°	12315.1	5163.7	1170.1	1089.5	1137.9	1077.4	1143.9	1083.5	972.7	936.5
15968.3	75°	10188.4	3874.8	900.2	942.5	978.8	932.4	976.7	932.4	831.7	857.9
11795.5	77.5°	7399.1	2616.1	688.8	787.4	803.6	779.4	817.6	767.3	676.7	670.6
5878.6	80°	3679.4	1532.6	539.7	622.3	616.3	600.1	644.5	620.3	543.8	576.0
1587.0	82.5°	1065.4	656.5	392.7	437.0	424.9	429.0	461.2	473.3	708.9	702.9
493.4	85°	334.3	257.8	235.6	243.7	231.6	237.6	271.9	539.7	499.5	292.0
153.1	87.5°	86.6	88.6	58.4	62.4	64.4	76.5	86.6	328.3	157.1	102.7
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>
6871.5
6543.2
5838.3
4865.6
4110.4
3760.0
3508.2
3421.6
3395.5
3296.8
3131.6
2996.7
2869.8
2730.9
2575.8
2400.6
2126.7
1997.8
2078.4
2022.0
1790.4
1635.3
1558.8
1462.1
1369.5
1276.8
1192.2
1109.7
1013.0
906.3
783.4
640.4
569.9
719.0
316.2
108.8
0.0

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