

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: P956848

Luminaire Tested: **GALN-SB9B-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956848
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-SB9B-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48763 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

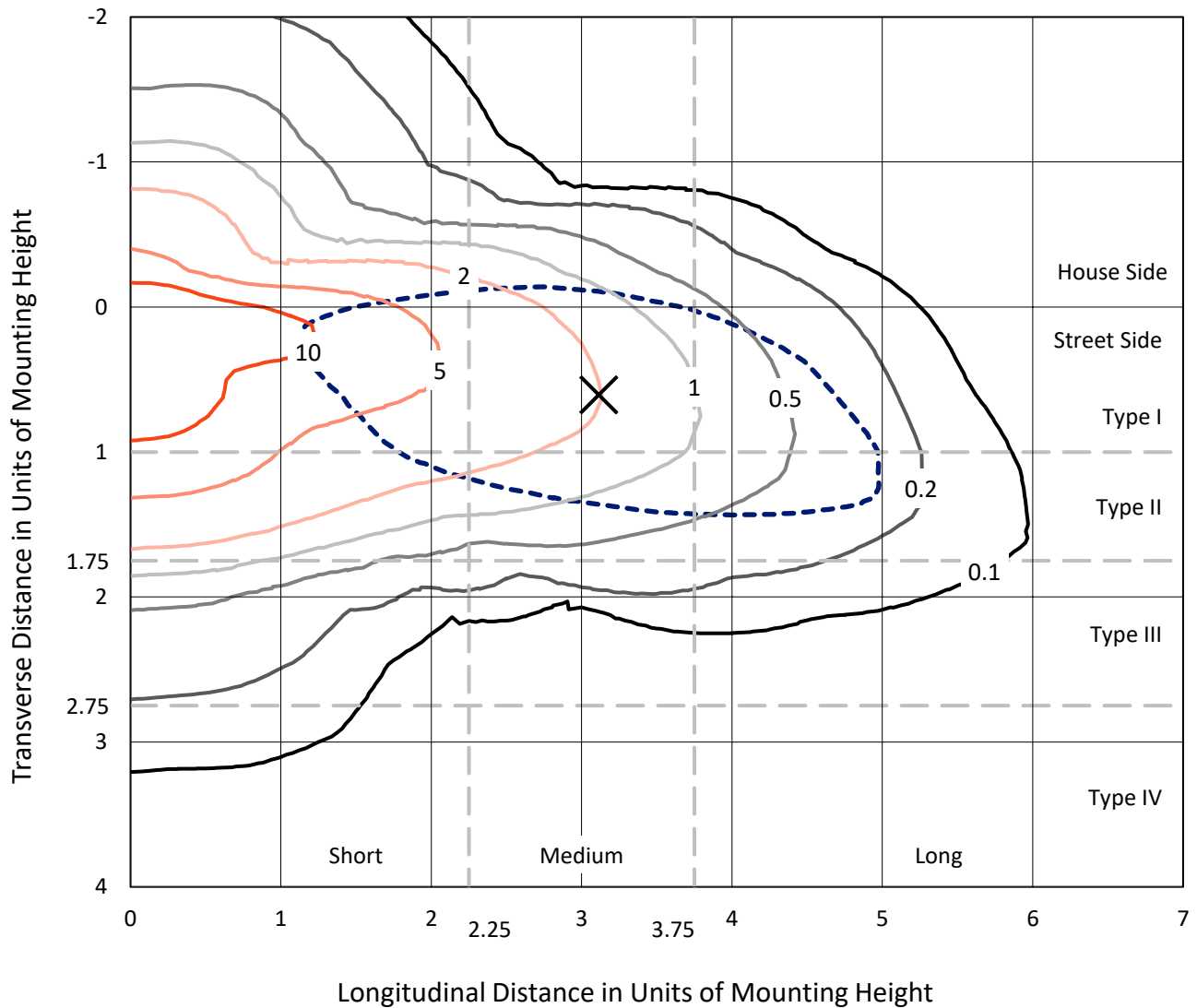
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

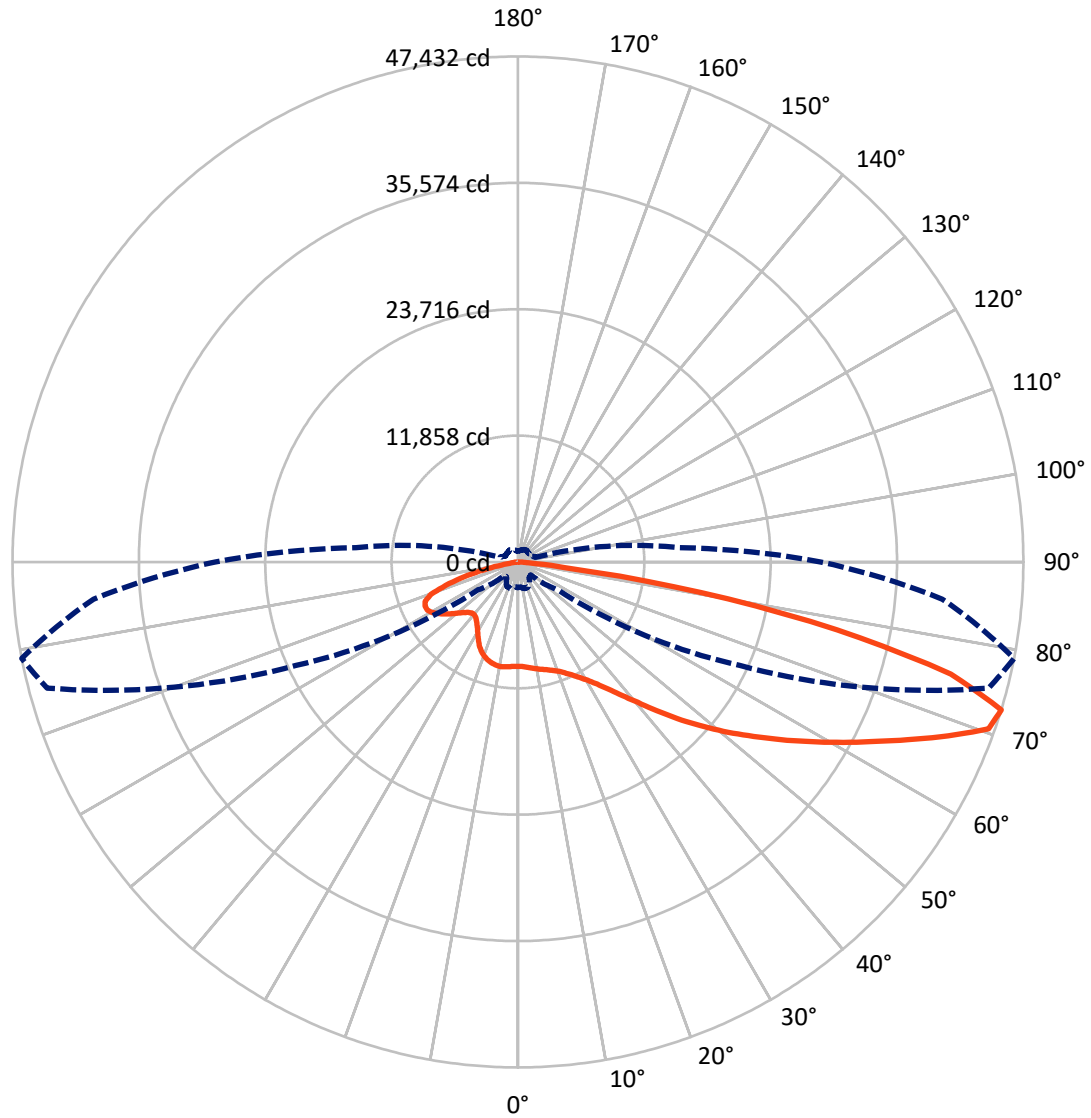
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	10730.5	0.0	10730.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	38032.5	0.0	38032.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	48763.0	0.0	48763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.5	1.8
10°-20°	2323.1	4.8
20°-30°	3748.5	7.7
30°-40°	5625.9	11.5
40°-50°	7980.7	16.4
50°-60°	10078.6	20.7
60°-70°	10236.2	21.0
70°-80°	6976.4	14.3
80°-90°	905.1	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°	48763.0	100.0
0°-180°	48763.0	100.0

Coefficient of Utilization



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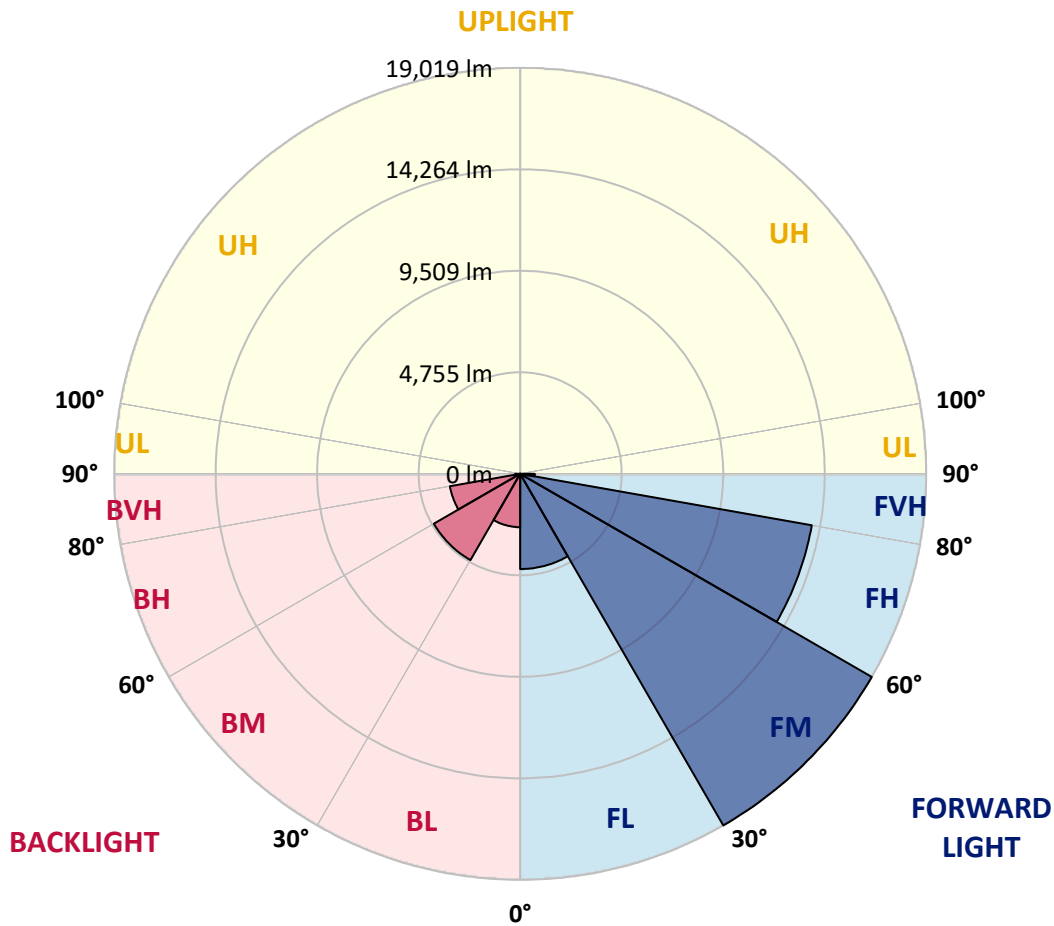
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4460.6	9.1			
FM (30°-60°)	19018.6	39.0			
FH (60°-80°)	13871.4	28.4			G5
FVH (80°-90°)	681.8	1.4			G4/750
BL (0°-30°)	2499.5	5.1	B3/2500		
BM (30°-60°)	4666.7	9.6	B3/5000		
BH (60°-80°)	3341.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	223.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7
2.5°	9793.9	9747.4	9775.8	9765.5	9778.4	9793.9	9799.0	9806.8	9832.6	9830.0
5°	9773.2	9726.8	9765.5	9752.6	9786.1	9822.2	9853.2	9881.6	9922.8	9940.9
7.5°	9729.4	9698.4	9737.1	9775.8	9837.7	9891.9	9935.7	10000.2	10059.5	10069.9
10°	9474.0	9450.8	9541.1	9641.7	9811.9	9958.9	10054.4	10129.2	10193.7	10204.0
12.5°	9208.4	9180.0	9280.6	9417.3	9693.3	9958.9	10160.1	10258.2	10314.9	10348.4
15°	9164.5	9141.3	9198.0	9316.7	9546.2	9889.3	10232.4	10412.9	10461.9	10500.6
17.5°	9376.0	9332.2	9355.4	9396.6	9530.8	9824.8	10289.1	10588.3	10663.1	10704.4
20°	9866.1	9804.2	9768.1	9685.5	9662.3	9835.1	10283.9	10799.8	10897.8	10949.4
22.5°	10518.7	10477.4	10400.0	10191.1	9964.1	9961.5	10382.0	11070.7	11253.8	11302.8
25°	11308.0	11246.1	11148.0	10864.3	10428.4	10211.7	10547.0	11416.3	11723.2	11736.1
27.5°	12215.9	12123.0	11988.9	11614.9	11026.8	10603.8	10799.8	11813.5	12262.3	12257.2
30°	13172.8	13080.0	12938.1	12484.2	11743.9	11132.6	11150.6	12241.7	12902.0	12873.6
32.5°	13871.9	13802.2	13773.8	13423.0	12569.3	11756.8	11553.0	12716.3	13691.3	13665.5
35°	14408.4	14318.1	14351.6	14173.6	13469.5	12455.8	12045.7	13281.2	14650.8	14648.2
37.5°	14939.7	14859.7	14888.1	14769.5	14302.6	13343.1	12646.7	13972.4	15839.9	15896.7
40°	15424.6	15339.5	15453.0	15342.1	14950.0	14287.1	13330.2	14754.0	17217.3	17325.6
42.5°	15716.1	15649.0	15837.3	15839.9	15512.3	15084.2	14080.8	15615.5	18811.3	19053.8
45°	15816.7	15793.5	16077.2	16136.5	16010.1	15545.9	14756.6	16554.4	20529.2	20962.5
47.5°	15708.4	15664.5	16056.6	16275.8	16376.4	15762.5	15316.3	17570.7	22283.2	22917.7
50°	15161.5	15076.4	15659.4	16121.1	16479.6	15904.4	15881.2	18744.3	24277.0	24970.9
52.5°	14178.8	14114.3	14777.2	15579.4	16252.6	15974.0	16515.7	20026.2	26170.3	27067.9
55°	12922.6	12837.5	13567.5	14614.7	15687.7	15950.8	17150.2	21460.4	28404.0	29314.5
57.5°	10931.4	10761.1	11684.5	12922.6	14766.9	15922.5	17810.5	22886.7	30673.9	31764.9
60°	8027.0	7774.2	8906.6	10374.2	12966.5	15646.5	18628.2	24486.0	33397.7	34380.4
62.5°	4673.8	4526.8	5267.1	6636.7	9773.2	14021.5	19087.3	26345.7	36075.1	37106.8
65°	3629.2	3587.9	3652.4	3758.1	5439.9	10498.0	17671.3	28159.0	39479.8	40202.1
67.5°	3319.6	3288.7	3317.1	3118.5	2759.9	5847.4	13980.2	28618.1	43127.1	43565.6
70°	2950.8	2914.7	3007.5	2837.3	2171.8	2659.3	9033.0	26951.8	46028.9	46851.7
72.5°	2404.0	2362.7	2579.4	2502.0	1828.8	1707.5	4537.1	22992.5	45724.5	47432.0
75°	1846.8	1823.6	2081.6	2146.0	1490.9	1343.9	2177.0	17090.9	40238.2	41958.6
77.5°	1434.1	1416.1	1547.6	1782.3	1202.0	1042.1	1338.7	10841.1	30323.1	30624.9
80°	1075.6	1024.0	1145.2	1380.0	936.3	760.9	907.9	6322.0	19167.3	17374.6
82.5°	673.2	647.4	748.0	920.8	660.3	523.6	590.7	3492.5	7681.4	4524.2
85°	384.3	374.0	407.5	526.2	358.5	301.8	337.9	1542.5	1403.2	964.7
87.5°	154.8	149.6	185.7	234.7	131.5	110.9	118.7	371.4	309.5	286.3
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°
9788.7	0°	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7	9788.7
9827.4	2.5°	9817.1	9817.1	9781.0	9724.2	9659.7	9618.5	9551.4	9533.4	9463.7	9443.1
9915.1	5°	9935.7	9915.1	9804.2	9644.3	9425.0	9223.8	9002.0	8862.7	8666.7	8597.0
10087.9	7.5°	10085.3	10028.6	9837.7	9486.9	9027.8	8576.4	8107.0	7751.0	7410.5	7289.3
10229.8	10°	10222.0	10142.1	9817.1	9203.2	8408.7	7627.2	6879.2	6355.6	5958.3	5795.8
10387.1	12.5°	10358.7	10211.7	9680.4	8731.2	7529.2	6469.1	5672.0	5264.5	5019.5	4823.4
10516.1	15°	10487.7	10281.4	9468.9	8099.2	6564.5	5488.9	4900.8	4575.8	4379.8	4250.8
10704.4	17.5°	10637.3	10340.7	9151.6	7297.0	5646.2	4810.5	4330.8	4134.7	4096.0	4080.6
10962.3	20°	10846.3	10394.9	8733.7	6399.4	4970.4	4268.9	4021.2	4003.2	4000.6	3992.9
11271.8	22.5°	11070.7	10459.3	8181.8	5584.3	4395.2	3931.0	3887.1	3851.0	3827.8	3825.2
11645.9	25°	11336.3	10480.0	7490.5	4916.3	3905.2	3771.0	3719.5	3665.3	3649.8	3649.8
12071.5	27.5°	11594.3	10410.3	6685.7	4335.9	3629.2	3624.0	3557.0	3538.9	3536.3	3544.1
12556.4	30°	11852.2	10278.8	5886.1	3799.4	3469.3	3469.3	3446.0	3458.9	3469.3	3495.0
13221.8	32.5°	12200.4	10139.5	5218.1	3402.2	3330.0	3304.2	3327.4	3353.2	3363.5	3397.0
14096.3	35°	12711.1	10041.5	4686.7	3185.5	3185.5	3152.0	3164.9	3159.7	3136.5	3121.0
15153.8	37.5°	13386.9	10036.3	4248.2	3084.9	3064.3	3059.1	3061.7	3028.2	2937.9	2829.6
16433.2	40°	14199.4	10175.6	3910.3	3015.3	2999.8	3030.8	3015.3	2925.0	2677.4	2489.1
18006.6	42.5°	15290.5	10572.8	3693.7	2930.2	2976.6	3015.3	2953.4	2641.3	2473.6	2347.2
19799.2	45°	16575.0	11217.7	3582.7	2839.9	2932.7	2979.2	2680.0	2543.3	2409.1	2256.9
21754.4	47.5°	18029.8	12030.2	3557.0	2754.8	2834.7	2863.1	2563.9	2502.0	2349.8	2184.7
23719.9	50°	19613.5	12992.3	3626.6	2654.2	2692.9	2594.8	2525.2	2468.5	2311.1	2148.6
25734.4	52.5°	21251.4	14052.4	3765.9	2517.5	2551.0	2442.7	2509.7	2460.7	2287.9	2068.7
27815.9	55°	22861.0	15120.3	3900.0	2357.5	2406.6	2306.0	2465.9	2429.8	2182.1	1934.5
30036.8	57.5°	24496.3	16183.0	4031.6	2215.7	2267.3	2174.4	2396.2	2347.2	2063.5	1810.7
32461.4	60°	26196.1	17214.7	4093.5	2079.0	2115.1	2053.2	2290.5	2205.4	1929.4	1684.3
34844.7	62.5°	27787.6	18073.6	3992.9	1942.3	1965.5	1939.7	2151.2	2037.7	1795.2	1542.5
37328.6	65°	29384.2	18584.4	3683.3	1808.1	1813.3	1800.4	1955.2	1857.1	1637.9	1418.7
39503.0	67.5°	30831.2	18870.7	3190.7	1663.7	1650.8	1645.6	1772.0	1661.1	1485.7	1294.8
41156.4	70°	31138.2	18143.3	2437.5	1493.5	1493.5	1480.6	1570.8	1457.3	1318.1	1163.3
39972.5	72.5°	28440.1	15262.1	1730.8	1300.0	1320.6	1294.8	1369.6	1274.2	1147.8	1044.6
34450.1	75°	22933.2	11191.9	1258.7	1101.4	1137.5	1093.7	1163.3	1096.2	987.9	985.3
23740.5	77.5°	15757.4	6920.4	913.1	907.9	933.7	877.0	956.9	920.8	822.8	779.0
10333.0	80°	6724.4	2759.9	665.5	701.6	701.6	650.0	742.9	753.2	668.1	647.4
1993.9	82.5°	1338.7	784.1	466.9	482.3	454.0	438.5	526.2	582.9	804.8	895.0
601.0	85°	402.4	288.9	281.2	263.1	232.1	234.7	309.5	585.5	722.2	412.7
198.6	87.5°	110.9	72.2	74.8	59.3	49.0	64.5	105.8	443.7	242.5	103.2
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>
9788.7
9476.6
8648.6
7304.8
5832.0
4887.9
4274.0
4090.9
4018.7
3853.6
3665.3
3564.7
3513.1
3425.4
3157.1
2832.1
2483.9
2342.1
2246.6
2171.8
2130.6
2053.2
1921.6
1805.6
1676.6
1539.9
1403.2
1279.4
1158.1
<i>1013.7</i>
887.3
730.0
647.4
897.6
356.0
87.7
0.0

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