

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: P950275

Luminaire Tested: **GALN-SB4D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950275
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-SB4D-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42886 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

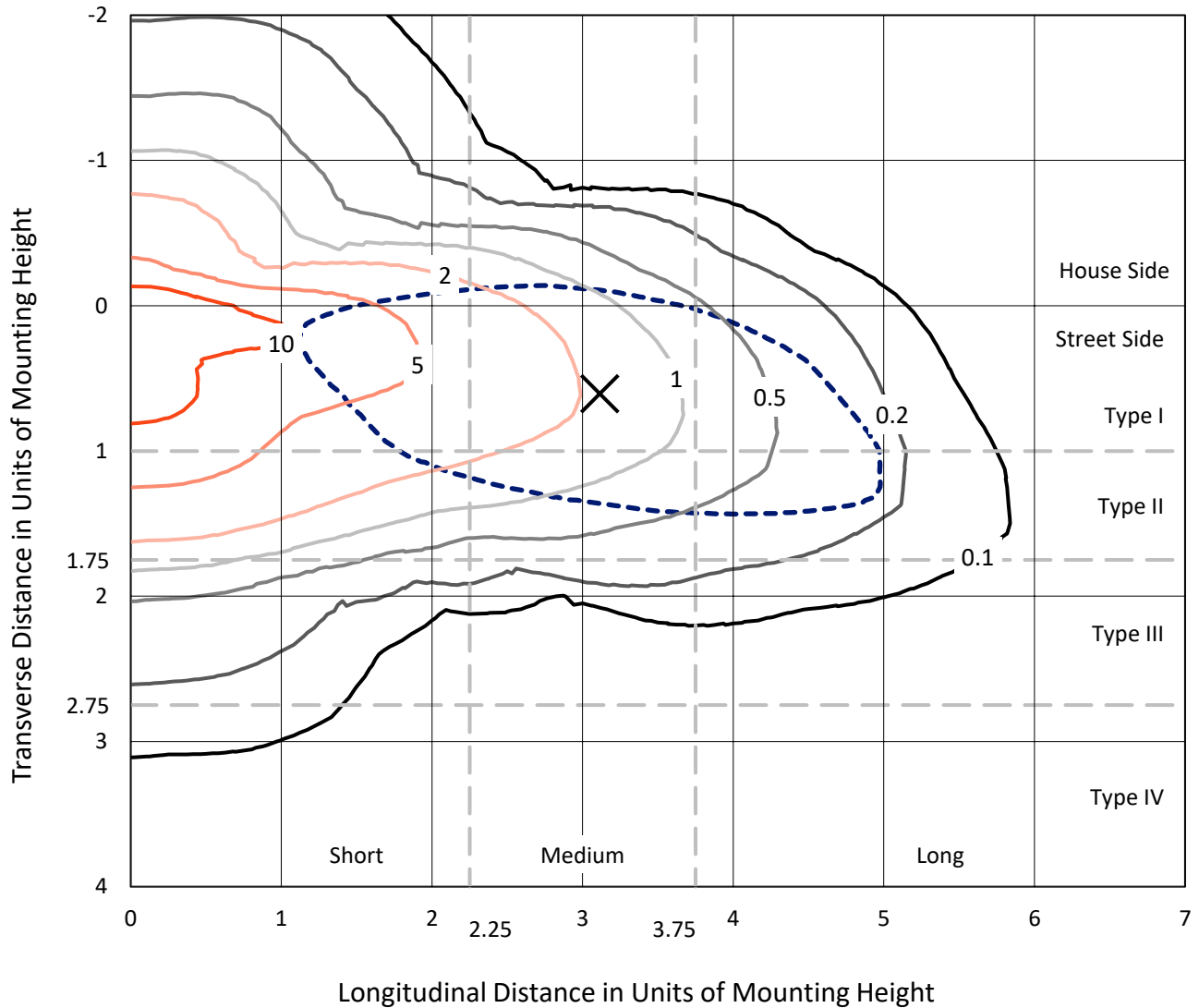
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

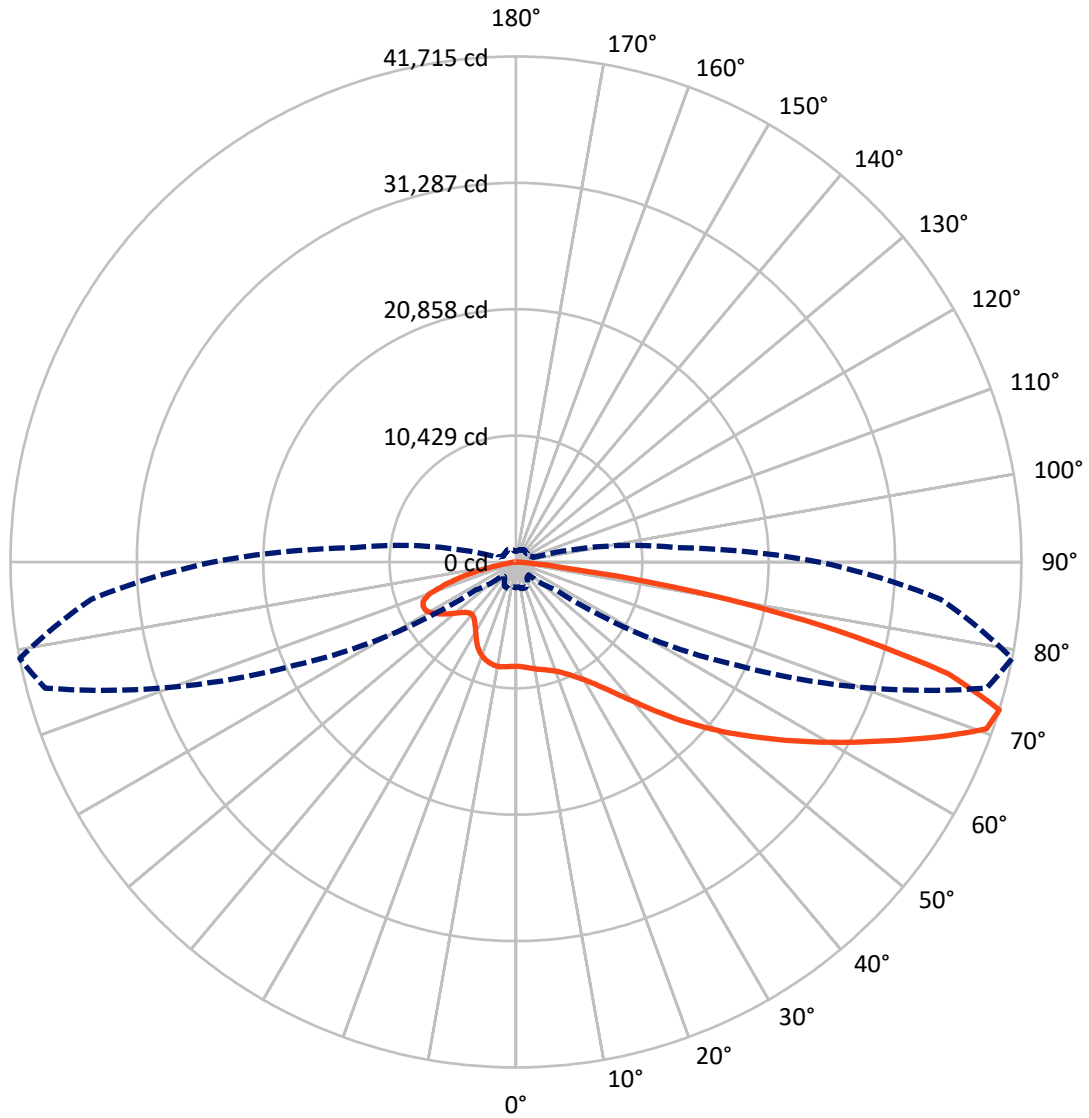
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	9437.3	0.0	9437.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33448.7	0.0	33448.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	42886.0	0.0	42886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.4	1.8
10°-20°	2043.1	4.8
20°-30°	3296.7	7.7
30°-40°	4947.9	11.5
40°-50°	7018.9	16.4
50°-60°	8863.9	20.7
60°-70°	9002.5	21.0
70°-80°	6135.6	14.3
80°-90°	796.0	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°	42886.0	100.0
0°-180°	42886.0	100.0

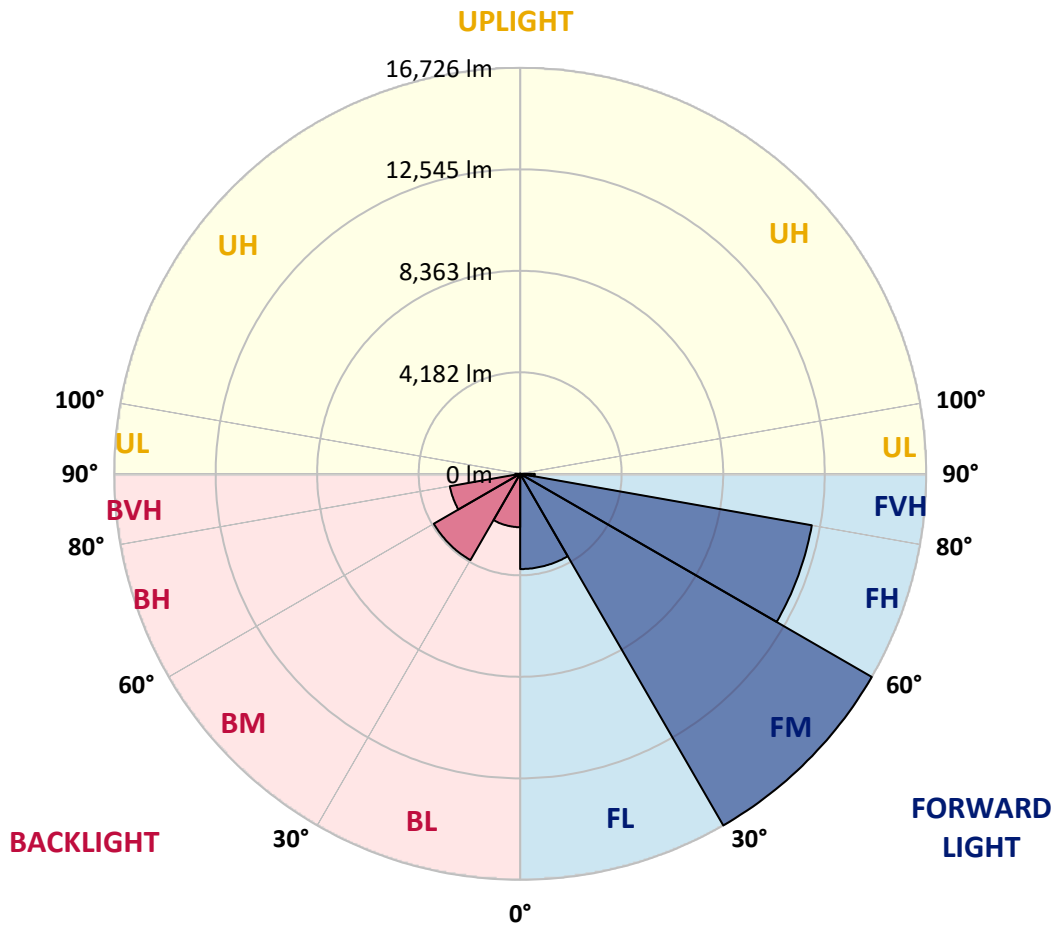


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3923.0	9.1			
FM (30°-60°)	16726.4	39.0			
FH (60°-80°)	12199.6	28.4			G5
FVH (80°-90°)	599.7	1.4			G4/750
BL (0°-30°)	2198.2	5.1	B3/2500		
BM (30°-60°)	4104.2	9.6	B3/5000		
BH (60°-80°)	2938.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	196.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0
2.5°	8613.5	8572.7	8597.6	8588.5	8599.9	8613.5	8618.0	8624.8	8647.5	8645.3
5°	8595.3	8554.5	8588.5	8577.2	8606.7	8638.4	8665.7	8690.6	8726.9	8742.8
7.5°	8556.8	8529.6	8563.6	8597.6	8652.1	8699.7	8738.3	8795.0	8847.1	8856.2
10°	8332.2	8311.8	8391.2	8479.7	8629.4	8758.7	8842.6	8908.4	8965.1	8974.2
12.5°	8098.5	8073.6	8162.1	8282.3	8525.0	8758.7	8935.6	9021.8	9071.7	9101.2
15°	8060.0	8039.6	8089.5	8193.8	8395.7	8697.4	8999.1	9157.9	9201.0	9235.1
17.5°	8246.0	8207.4	8227.8	8264.1	8382.1	8640.7	9049.0	9312.2	9378.0	9414.3
20°	8677.0	8622.6	8590.8	8518.2	8497.8	8649.8	9044.5	9498.2	9584.4	9629.8
22.5°	9250.9	9214.6	9146.6	8962.8	8763.2	8760.9	9130.7	9736.4	9897.5	9940.6
25°	9945.1	9890.7	9804.5	9554.9	9171.5	8981.0	9275.9	10040.4	10310.3	10321.7
27.5°	10743.6	10661.9	10544.0	10215.1	9697.8	9325.8	9498.2	10389.7	10784.4	10779.9
30°	11585.2	11503.6	11378.8	10979.5	10328.5	9790.8	9806.7	10766.3	11347.0	11322.1
32.5°	12200.0	12138.7	12113.8	11805.3	11054.4	10339.8	10160.6	11183.7	12041.2	12018.5
35°	12671.8	12592.4	12621.9	12465.4	11846.1	10954.6	10593.9	11680.5	12885.1	12882.8
37.5°	13139.2	13068.8	13093.8	12989.4	12578.8	11734.9	11122.5	12288.5	13930.9	13980.8
40°	13565.6	13490.8	13590.6	13493.0	13148.2	12565.2	11723.6	12975.8	15142.2	15237.5
42.5°	13822.0	13763.0	13928.6	13930.9	13642.8	13266.2	12383.7	13733.5	16544.2	16757.4
45°	13910.4	13890.0	14139.6	14191.7	14080.6	13672.2	12978.1	14559.2	18055.0	18436.1
47.5°	13815.2	13776.6	14121.4	14314.2	14402.7	13862.8	13470.4	15453.0	19597.6	20155.6
50°	13334.2	13259.4	13772.1	14178.1	14493.4	13987.6	13967.2	16485.2	21351.1	21961.3
52.5°	12469.9	12413.2	12996.2	13701.7	14293.8	14048.8	14525.2	17612.6	23016.2	23805.6
55°	11365.2	11290.3	11932.3	12853.3	13797.0	14028.4	15083.3	18873.9	24980.7	25781.5
57.5°	9613.9	9464.2	10276.3	11365.2	12987.2	14003.4	15664.0	20128.4	26977.0	27936.6
60°	7059.6	6837.3	7833.1	9123.9	11403.7	13760.7	16383.1	21534.9	29372.5	30236.8
62.5°	4110.5	3981.2	4632.3	5836.8	8595.3	12331.6	16786.9	23170.5	31727.2	32634.6
65°	3191.8	3155.5	3212.2	3305.2	4784.3	9232.8	15541.5	24765.2	34721.7	35356.8
67.5°	2919.6	2892.3	2917.3	2742.6	2427.3	5142.7	12295.3	25169.0	37929.3	38315.0
70°	2595.2	2563.4	2645.1	2495.3	1910.1	2338.8	7944.3	23703.6	40481.4	41205.0
72.5°	2114.2	2077.9	2268.5	2200.4	1608.4	1501.7	3990.3	20221.4	40213.7	41715.4
75°	1624.2	1603.8	1830.7	1887.4	1311.2	1181.9	1914.6	15031.1	35388.6	36901.7
77.5°	1261.3	1245.4	1361.1	1567.5	1057.1	916.5	1177.4	9534.5	26668.5	26933.9
80°	946.0	900.6	1007.2	1213.6	823.5	669.2	798.5	5560.1	16857.2	15280.6
82.5°	592.1	569.4	657.9	809.9	580.7	460.5	519.5	3071.5	6755.6	3978.9
85°	338.0	328.9	358.4	462.8	315.3	265.4	297.2	1356.6	1234.1	848.4
87.5°	136.1	131.6	163.3	206.4	115.7	97.5	104.4	326.7	272.2	251.8
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°
8609.0	0°	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0	8609.0
8643.0	2.5°	8633.9	8633.9	8602.2	8552.2	8495.5	8459.2	8400.3	8384.4	8323.1	8305.0
8720.1	5°	8738.3	8720.1	8622.6	8481.9	8289.1	8112.2	7917.1	7794.6	7622.2	7560.9
8872.1	7.5°	8869.8	8819.9	8652.1	8343.5	7939.7	7542.8	7129.9	6816.8	6517.4	6410.8
8996.9	10°	8990.1	8919.7	8633.9	8094.0	7395.3	6708.0	6050.1	5589.6	5240.2	5097.3
9135.2	12.5°	9110.3	8981.0	8513.7	7678.9	6621.8	5689.4	4988.4	4630.0	4414.5	4242.1
9248.7	15°	9223.7	9042.2	8327.7	7123.1	5773.3	4827.4	4310.1	4024.3	3851.9	3738.5
9414.3	17.5°	9355.3	9094.4	8048.6	6417.6	4965.7	4230.8	3808.8	3636.4	3602.4	3588.8
9641.1	20°	9539.0	9142.1	7681.1	5628.1	4371.4	3754.4	3536.6	3520.7	3518.4	3511.6
9913.3	22.5°	9736.4	9198.8	7195.7	4911.3	3865.5	3457.2	3418.6	3386.9	3366.5	3364.2
10242.3	25°	9970.1	9216.9	6587.7	4323.8	3434.5	3316.5	3271.2	3223.5	3209.9	3209.9
10616.6	27.5°	10196.9	9155.7	5880.0	3813.3	3191.8	3187.2	3128.3	3112.4	3110.1	3116.9
11043.1	30°	10423.8	9040.0	5176.7	3341.5	3051.1	3051.1	3030.7	3042.1	3051.1	3073.8
11628.3	32.5°	10730.0	8917.5	4589.2	2992.2	2928.6	2905.9	2926.4	2949.0	2958.1	2987.6
12397.4	35°	11179.2	8831.3	4121.9	2801.6	2801.6	2772.1	2783.4	2778.9	2758.5	2744.9
13327.4	37.5°	11773.5	8826.7	3736.2	2713.1	2695.0	2690.4	2692.7	2663.2	2583.8	2488.5
14452.6	40°	12488.1	8949.2	3439.0	2651.9	2638.3	2665.5	2651.9	2572.5	2354.7	2189.1
15836.4	42.5°	13447.7	9298.6	3248.5	2577.0	2617.8	2651.9	2597.4	2322.9	2175.5	2064.3
17413.0	45°	14577.4	9865.7	3150.9	2497.6	2579.3	2620.1	2357.0	2236.7	2118.8	1984.9
19132.5	47.5°	15856.8	10580.3	3128.3	2422.8	2493.1	2518.0	2254.9	2200.4	2066.6	1921.4
20861.1	50°	17249.7	11426.4	3189.5	2334.3	2368.3	2282.1	2220.9	2171.0	2032.6	1889.7
22632.8	52.5°	18690.2	12358.8	3312.0	2214.1	2243.5	2148.3	2207.3	2164.1	2012.2	1819.3
24463.5	55°	20105.7	13297.9	3430.0	2073.4	2116.5	2028.0	2168.7	2136.9	1919.2	1701.4
26416.7	57.5°	21543.9	14232.6	3545.7	1948.6	1994.0	1912.3	2107.4	2064.3	1814.8	1592.5
28549.1	60°	23038.9	15140.0	3600.1	1828.4	1860.2	1805.7	2014.4	1939.6	1696.8	1481.3
30645.2	62.5°	24438.5	15895.4	3511.6	1708.2	1728.6	1705.9	1891.9	1792.1	1578.9	1356.6
32829.7	65°	25842.7	16344.5	3239.4	1590.2	1594.8	1583.4	1719.5	1633.3	1440.5	1247.7
34742.1	67.5°	27115.4	16596.3	2806.1	1463.2	1451.8	1447.3	1558.5	1460.9	1306.7	1138.8
36196.2	70°	27385.3	15956.6	2143.7	1313.5	1313.5	1302.1	1381.5	1281.7	1159.2	1023.1
35154.9	72.5°	25012.5	13422.7	1522.2	1143.3	1161.5	1138.8	1204.6	1120.6	1009.5	918.7
30298.1	75°	20169.2	9843.0	1107.0	968.6	1000.4	961.8	1023.1	964.1	868.8	866.6
20879.3	77.5°	13858.3	6086.4	803.0	798.5	821.2	771.3	841.6	809.9	723.7	685.1
9087.6	80°	5914.0	2427.3	585.3	617.0	617.0	571.7	653.3	662.4	587.5	569.4
1753.6	82.5°	1177.4	689.6	410.6	424.2	399.3	385.6	462.8	512.7	707.8	787.2
528.6	85°	353.9	254.1	247.3	231.4	204.2	206.4	272.2	514.9	635.2	363.0
174.7	87.5°	97.5	63.5	65.8	52.2	43.1	56.7	93.0	390.2	213.2	90.7
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>
8609.0
8334.5
7606.3
6424.4
5129.1
4298.8
3758.9
3597.8
3534.3
3389.1
3223.5
3135.1
3089.7
3012.6
2776.6
2490.8
2184.6
2059.8
1975.9
1910.1
1873.8
1805.7
1690.0
1587.9
1474.5
1354.3
1234.1
1125.2
1018.6
891.5
780.4
642.0
569.4
789.4
313.1
77.1
0.0

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