

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: P951841

Luminaire Tested: **GALN-SB5D-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951841
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-SB5D-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50476 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

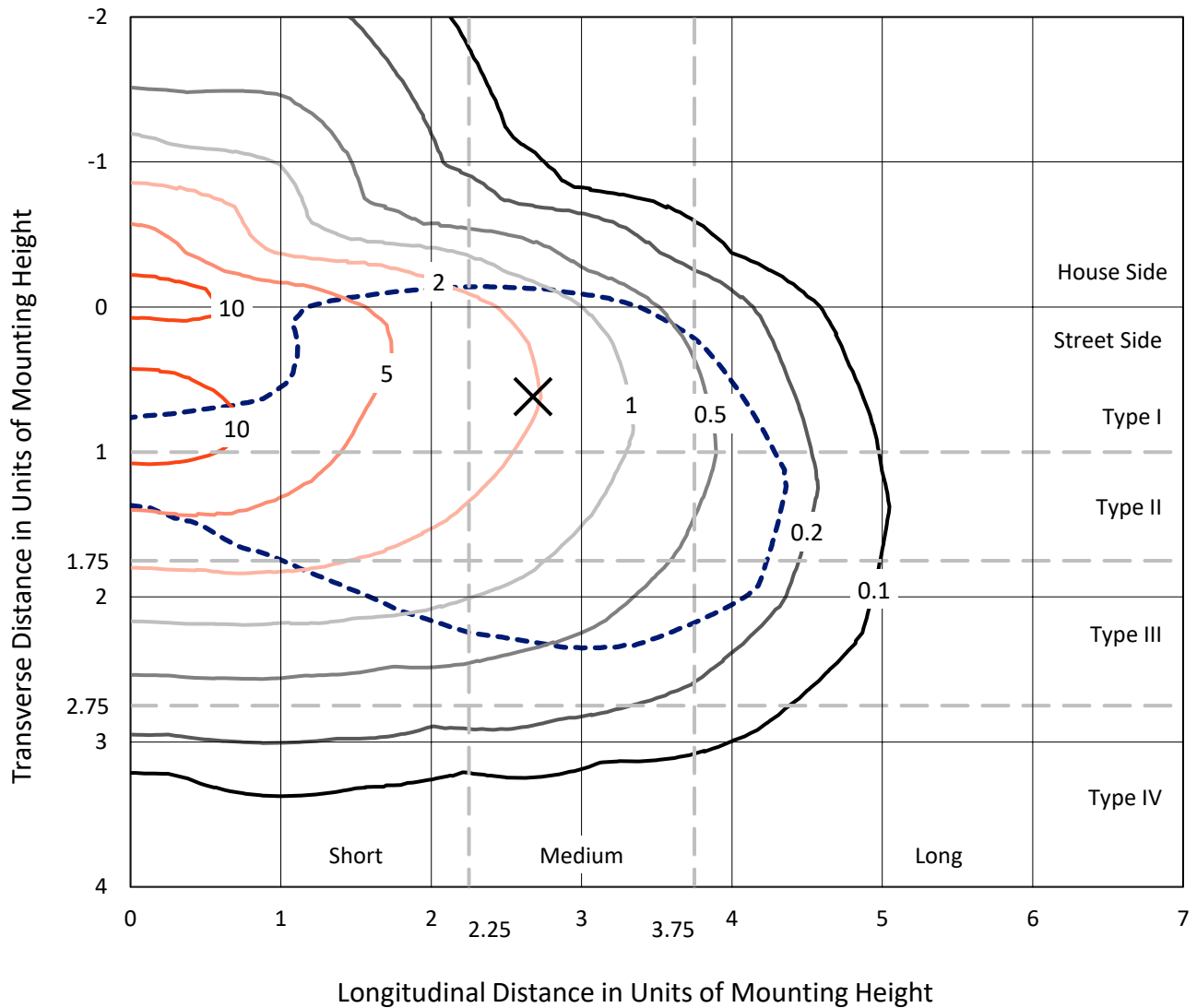
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

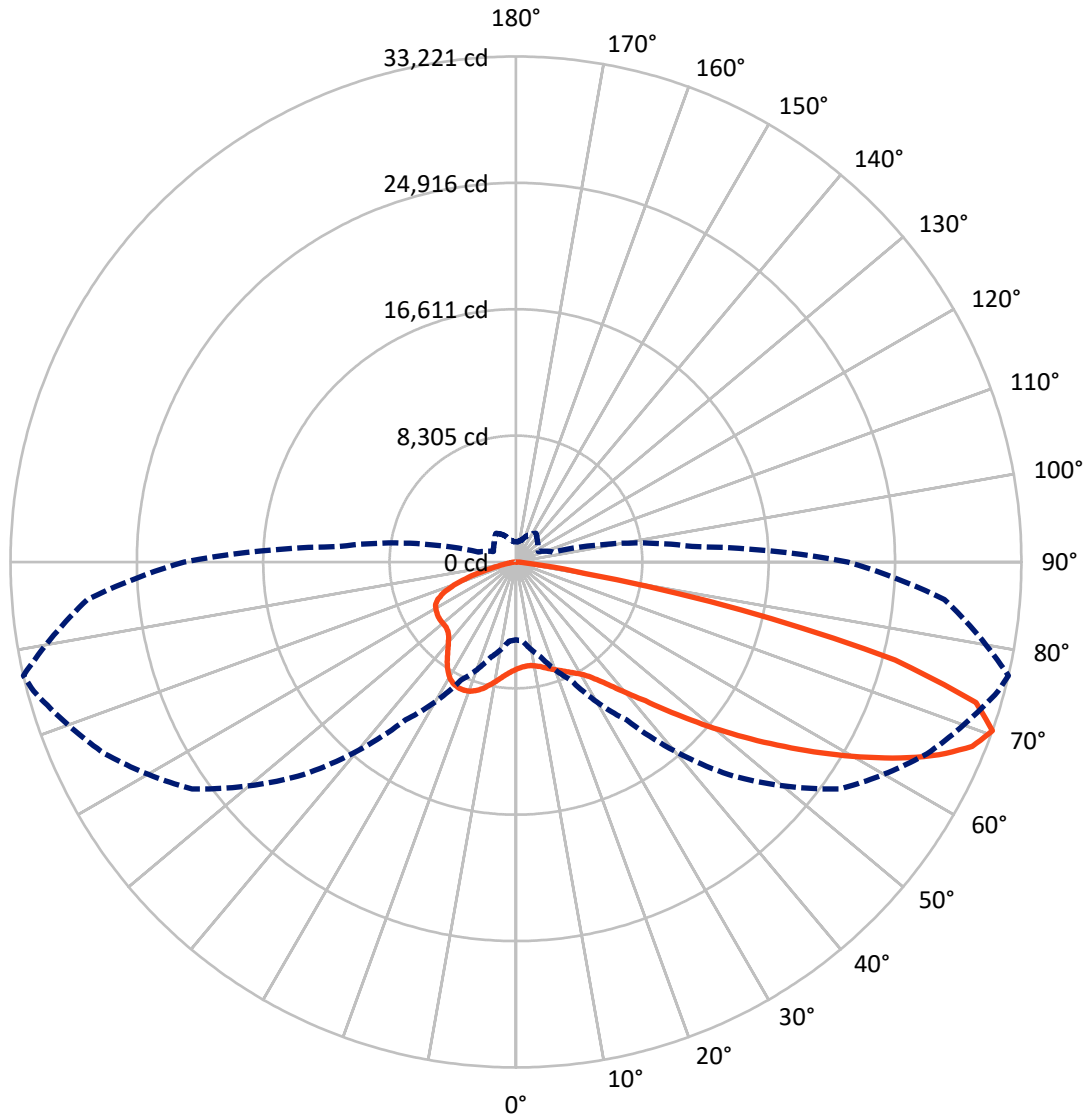
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	11053.5	0.0	11053.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	39422.5	0.0	39422.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	50476.0	0.0	50476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.6	1.3
10°-20°	1938.3	3.8
20°-30°	3314.8	6.6
30°-40°	5330.5	10.6
40°-50°	8322.3	16.5
50°-60°	11116.7	22.0
60°-70°	11848.7	23.5
70°-80°	7294.0	14.5
80°-90°	639.2	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°	50476.0	100.0
0°-180°	50476.0	100.0

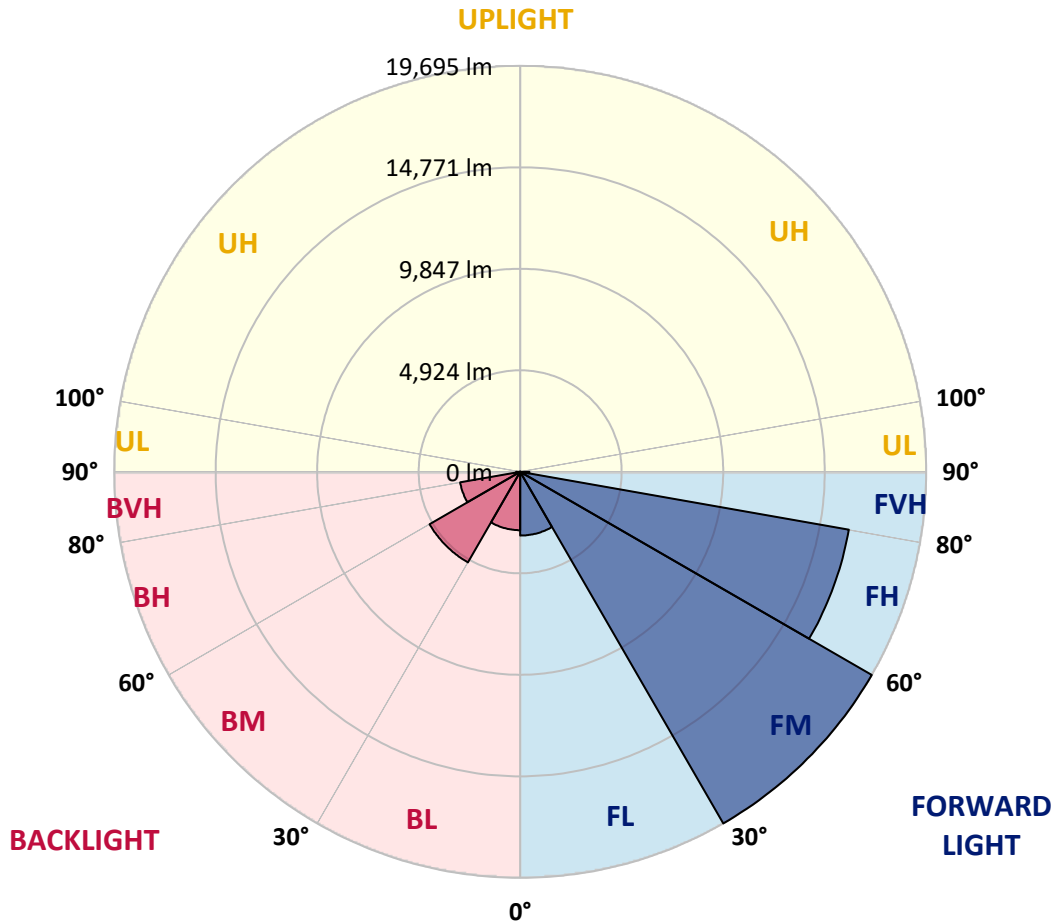


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.5	6.1			
FM (30°-60°)	19694.6	39.0			
FH (60°-80°)	16188.5	32.1			G5
FVH (80°-90°)	446.9	0.9			G3/500
BL (0°-30°)	2832.2	5.6	B4/5000		
BM (30°-60°)	5074.9	10.1	B4/8500		
BH (60°-80°)	2954.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	192.2	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9
2.5°	6491.2	6488.6	6522.3	6532.6	6594.6	6638.6	6721.3	6809.2	6922.9	6935.9
5°	6116.4	6116.4	6155.2	6196.5	6276.7	6364.6	6491.2	6643.8	6840.2	6871.2
7.5°	5798.4	5819.1	5852.7	5932.8	6025.9	6152.6	6346.5	6563.6	6822.1	6871.2
10°	5542.5	5565.8	5607.1	5671.7	5811.3	5987.1	6240.5	6519.7	6866.1	6943.6
12.5°	5462.4	5485.6	5508.9	5558.0	5687.3	5894.1	6196.5	6540.3	6972.1	7049.6
15°	5648.5	5676.9	5658.8	5645.9	5713.1	5901.8	6217.2	6615.3	7103.9	7215.1
17.5°	6077.6	6088.0	6046.6	5925.1	5914.8	6015.6	6315.4	6718.7	7269.4	7390.9
20°	6770.4	6752.3	6667.0	6426.6	6289.6	6268.9	6483.5	6873.8	7440.0	7569.2
22.5°	7711.4	7690.7	7520.1	7140.1	6835.1	6633.4	6726.5	7075.5	7631.3	7776.0
25°	8885.1	8856.6	8605.9	8088.8	7615.8	7116.8	7057.4	7341.7	7866.5	8000.9
27.5°	10255.2	10231.9	9960.5	9278.0	8595.5	7778.6	7468.4	7654.5	8112.1	8264.6
30°	11728.7	11795.9	11315.1	10580.9	9717.5	8642.1	8021.6	8039.7	8430.1	8567.1
32.5°	13460.7	13577.0	12998.0	12067.3	10888.5	9580.4	8719.6	8577.4	8892.8	9006.6
35°	15177.2	15309.1	14828.2	13799.4	12442.2	10686.9	9448.6	9195.3	9508.1	9632.2
37.5°	16661.1	16836.9	16588.7	15694.3	14104.4	12020.8	10399.9	9921.7	10265.5	10420.6
40°	17832.1	18101.0	18082.9	17524.5	16063.9	13639.1	11607.2	10818.7	11206.5	11374.5
42.5°	18783.5	19016.1	19217.8	19189.3	18108.8	15477.1	13026.4	11984.6	12279.3	12473.2
45°	19440.1	19688.3	20122.6	20590.5	20076.0	17444.4	14652.5	13367.6	13636.5	13928.6
47.5°	20026.9	20308.7	20872.2	21614.2	21746.0	19419.4	16433.6	14978.2	15223.8	15526.2
50°	20078.6	20321.6	21195.4	22247.5	22932.6	21316.9	18346.6	16785.2	17015.2	17338.4
52.5°	18830.0	19212.6	20737.8	22229.4	23478.0	22904.1	20246.6	18664.6	18923.1	19310.8
55°	14616.3	15177.2	19396.1	21536.6	23284.2	23930.4	22053.6	20662.9	20993.7	21399.6
57.5°	12589.5	12835.1	15397.0	20275.1	22400.1	24196.7	23578.9	22681.8	23214.4	23659.0
60°	11315.1	11519.3	13034.2	18313.0	21236.7	23775.3	24757.7	24563.8	25484.1	26014.0
62.5°	9950.1	10144.0	11521.9	15291.0	19747.7	23074.8	25502.2	26301.0	27810.7	28389.8
65°	8595.5	8761.0	10082.0	12848.0	17855.4	22374.2	25887.4	27802.9	29964.1	30563.9
67.5°	7085.8	7222.8	8471.4	10839.4	15554.7	21415.1	26078.7	28984.3	31838.3	32352.8
70°	5113.4	5219.4	6509.3	8572.3	12667.1	19765.8	26001.1	29821.9	32810.3	33221.4
72.5°	2417.1	2512.7	4027.6	5565.8	8947.1	16555.1	24432.0	29157.6	31822.8	31618.6
75°	1290.0	1372.7	2313.7	3053.0	4725.6	11348.7	19993.3	25117.0	26722.4	25729.7
77.5°	873.8	938.4	1432.2	1832.8	2158.6	5387.4	12850.6	17390.1	16730.9	15091.9
80°	692.8	760.0	1173.6	1240.9	1044.4	1946.6	5309.8	8050.1	5782.9	4624.8
82.5°	532.5	607.5	987.5	899.6	568.7	798.8	1545.9	2546.3	1481.3	1127.1
85°	325.7	405.9	775.5	573.9	320.6	364.5	524.8	708.3	452.4	377.4
87.5°	165.4	232.7	392.9	209.4	144.8	85.3	139.6	139.6	118.9	103.4
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°
7041.9	0°	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9	7041.9
7005.7	2.5°	7067.7	7119.4	7207.3	7290.0	7354.7	7416.7	7478.7	7512.4	7522.7	7564.1
7044.4	5°	7150.4	7246.1	7416.7	7577.0	7677.8	7739.8	7783.8	7809.6	7814.8	7827.7
7150.4	7.5°	7303.0	7455.5	7693.3	7853.6	7928.6	7923.4	7905.3	7840.7	7814.8	7791.5
7305.5	10°	7517.5	7719.2	8011.3	8122.4	8075.9	7951.8	7791.5	7602.8	7514.9	7429.6
7517.5	12.5°	7783.8	8039.7	8326.7	8321.5	8091.4	7773.5	7401.2	7111.7	6928.1	6796.3
7778.6	15°	8106.9	8401.6	8621.4	8445.6	7941.5	7370.2	6824.7	6447.3	6281.8	6137.1
8042.3	17.5°	8440.4	8755.8	8856.6	8406.8	7564.1	6773.0	6155.2	5857.9	5695.0	5617.5
8326.7	20°	8766.1	9078.9	8996.2	8184.5	6990.2	6095.7	5545.1	5382.2	5348.6	5366.7
8603.3	22.5°	9110.0	9389.1	9024.6	7755.4	6258.6	5402.9	5100.4	5105.6	5180.6	5234.9
8892.8	25°	9461.5	9650.2	8949.7	7134.9	5472.7	4893.6	4818.7	4901.4	5048.7	5154.7
9218.5	27.5°	9800.2	9882.9	8786.8	6367.1	4798.0	4529.1	4542.1	4712.7	4935.0	5082.3
9614.1	30°	10182.8	10089.7	8474.0	5503.7	4330.1	4216.3	4324.9	4524.0	4746.3	4878.1
10113.0	32.5°	10614.5	10268.1	7977.7	4704.9	3999.2	3965.6	4143.9	4273.2	4371.4	4410.2
10774.8	35°	11152.2	10518.8	7341.7	4143.9	3701.9	3782.0	3952.6	3888.0	3849.2	3828.6
11664.1	37.5°	11850.2	10857.5	6597.2	3779.4	3461.5	3650.2	3720.0	3518.3	3365.8	3290.9
12742.0	40°	12690.3	11353.8	5881.1	3497.7	3309.0	3536.4	3414.9	3171.9	2978.1	2872.1
13954.5	42.5°	13623.6	11873.4	5278.8	3285.7	3223.6	3443.4	3190.0	2900.5	2587.7	2554.1
15399.6	45°	14603.3	12408.6	4867.8	3122.8	3182.3	3363.2	3060.8	2592.9	2370.6	2507.6
16849.8	47.5°	15583.1	12899.7	4619.6	3001.3	3161.6	3272.8	2947.0	2422.3	2264.6	2463.6
18403.5	50°	16674.0	13339.2	4508.4	2913.4	3138.3	3236.6	2776.4	2378.3	2153.4	2285.2
20011.4	52.5°	17757.2	13680.4	4425.7	2825.5	3104.7	3208.1	2693.7	2326.6	2019.0	2026.7
21629.7	55°	18837.8	13902.8	4335.2	2709.2	3029.8	3146.1	2685.9	2269.7	1918.2	1882.0
23341.0	57.5°	19990.7	14029.4	4224.1	2579.9	2900.5	2988.4	2678.2	2225.8	1887.1	1827.7
25091.2	60°	21164.4	14215.6	4079.3	2422.3	2727.3	2799.7	2660.1	2210.3	1869.0	1768.2
26740.5	62.5°	22216.5	14280.2	3906.1	2272.3	2505.0	2613.6	2621.3	2197.4	1819.9	1646.7
28110.6	65°	22906.7	14001.0	3603.7	2101.7	2264.6	2422.3	2546.3	2153.4	1732.0	1558.8
28787.9	67.5°	22878.3	13204.8	3130.6	1882.0	2031.9	2210.3	2437.8	2078.4	1626.0	1450.3
28276.0	70°	21813.2	11633.0	2530.8	1626.0	1776.0	1982.8	2298.2	1967.3	1499.4	1331.3
25142.9	72.5°	18708.5	9104.8	1838.0	1326.2	1478.7	1747.5	2117.2	1832.8	1370.1	1225.3
18581.8	75°	13365.1	5762.2	1246.0	1018.5	1150.4	1481.3	1892.3	1675.2	1251.2	1230.5
9306.4	77.5°	6827.3	2753.2	824.7	744.5	801.4	1168.5	1589.8	1496.8	1269.3	1016.0
2647.2	80°	2220.6	1016.0	519.6	506.7	532.5	778.1	1230.5	1227.9	961.7	690.2
641.1	82.5°	708.3	436.9	338.7	325.7	312.8	488.6	858.3	972.0	648.9	436.9
230.1	85°	281.8	261.1	199.1	183.5	131.8	230.1	449.8	646.3	483.4	315.4
59.5	87.5°	103.4	103.4	54.3	38.8	28.4	77.6	121.5	193.9	276.6	162.9
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>
7041.9
7587.3
7848.4
7796.7
7403.8
6765.3
6121.6
5640.7
5359.0
5247.8
5183.2
5118.5
4909.1
4430.9
3849.2
3309.0
2879.8
2587.7
2579.9
2556.7
2383.5
2081.0
1907.8
1835.4
1776.0
1646.7
1558.8
1458.0
1346.8
1217.6
1160.7
904.8
610.1
434.3
323.1
160.3
0.0

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