

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: P947552

Luminaire Tested: **GALN-SB2D-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16481 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

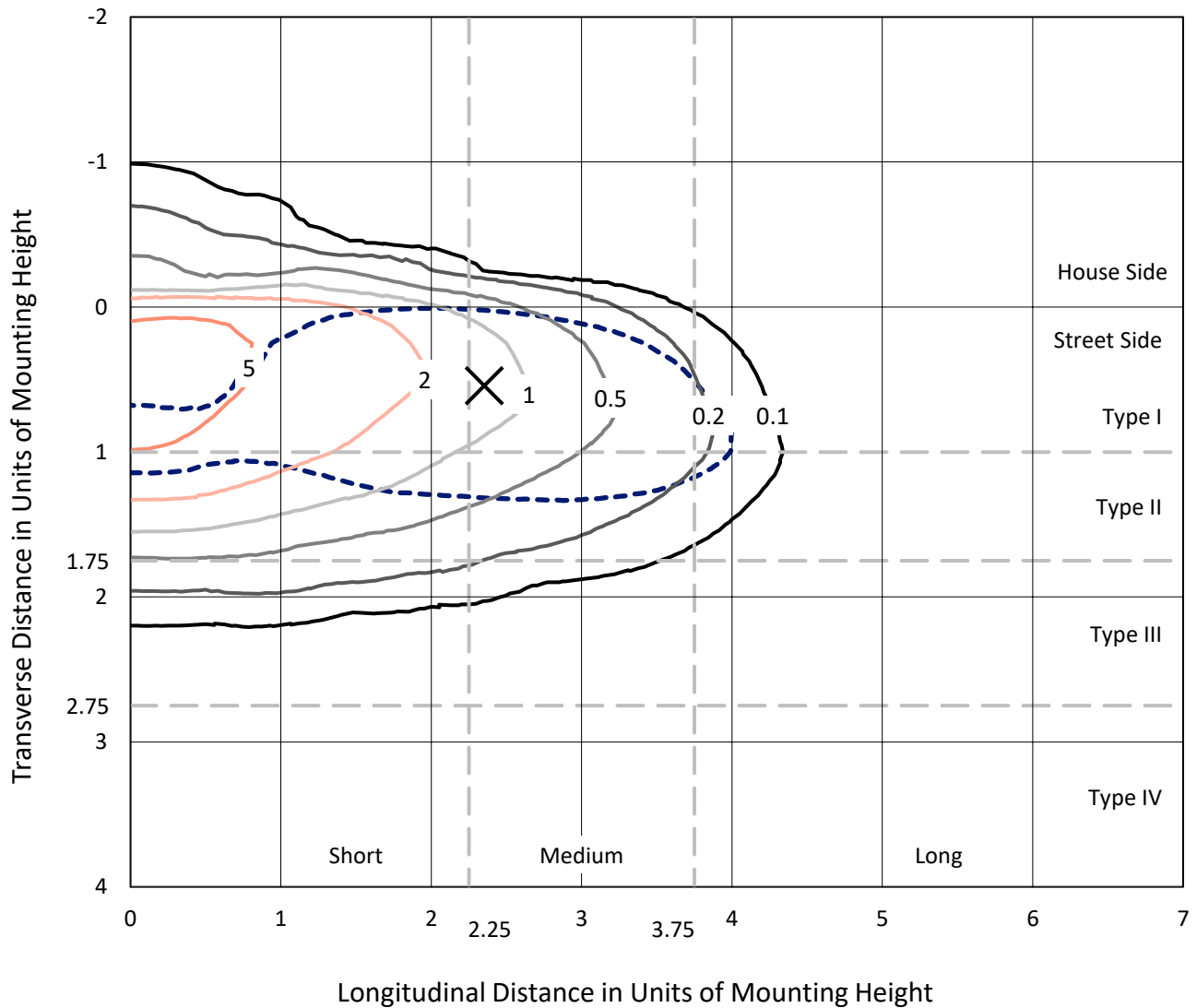
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

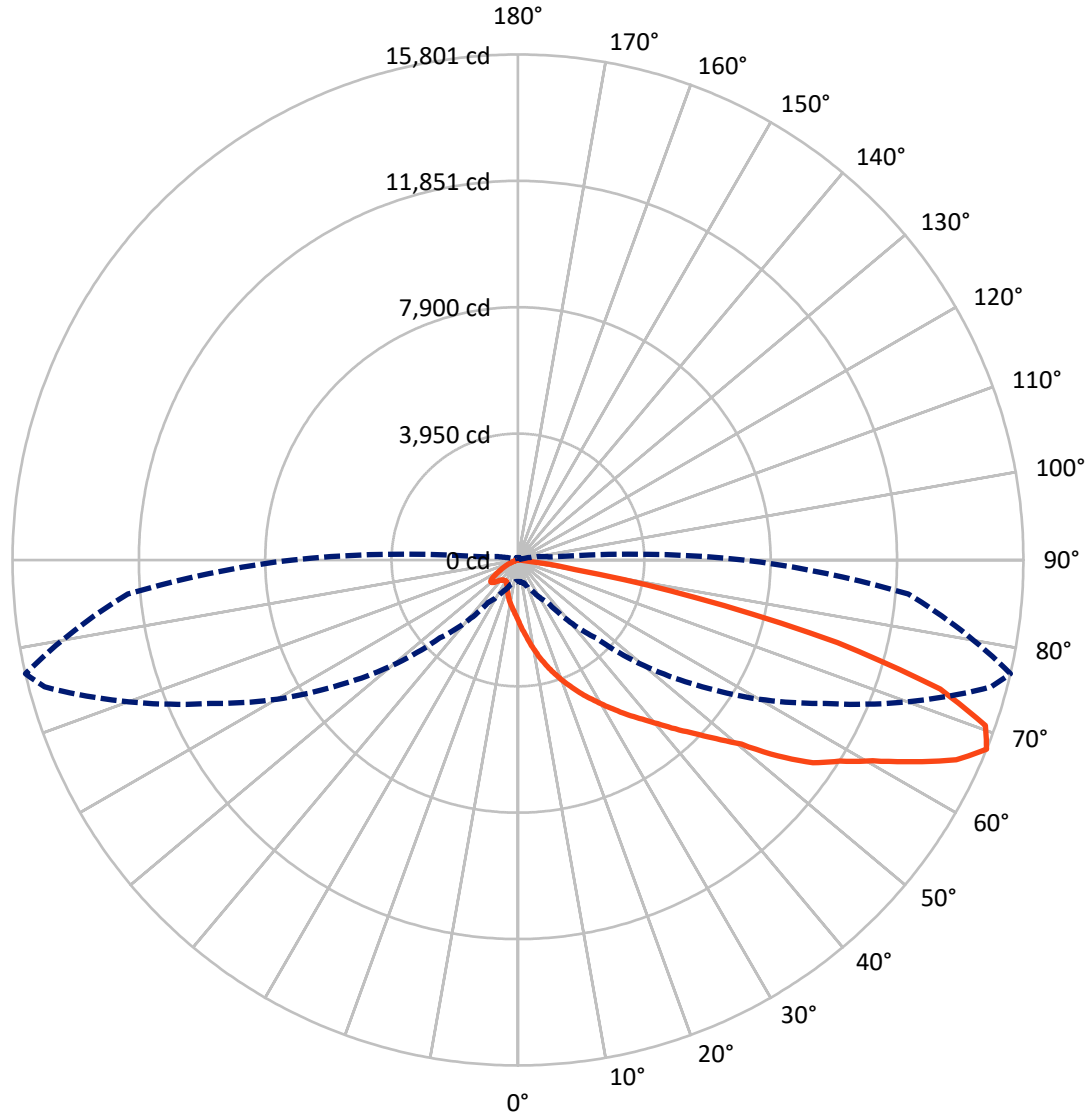
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.5	0.0	1212.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15268.5	0.0	15268.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	16481.0	0.0	16481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.2
10°-20°	679.3	4.1
20°-30°	1310.8	8.0
30°-40°	2275.7	13.8
40°-50°	3304.2	20.0
50°-60°	3794.4	23.0
60°-70°	3294.3	20.0
70°-80°	1551.6	9.4
80°-90°	76.7	0.5
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°	16481.0	100.0
0°-180°	16481.0	100.0

Coefficient of Utilization



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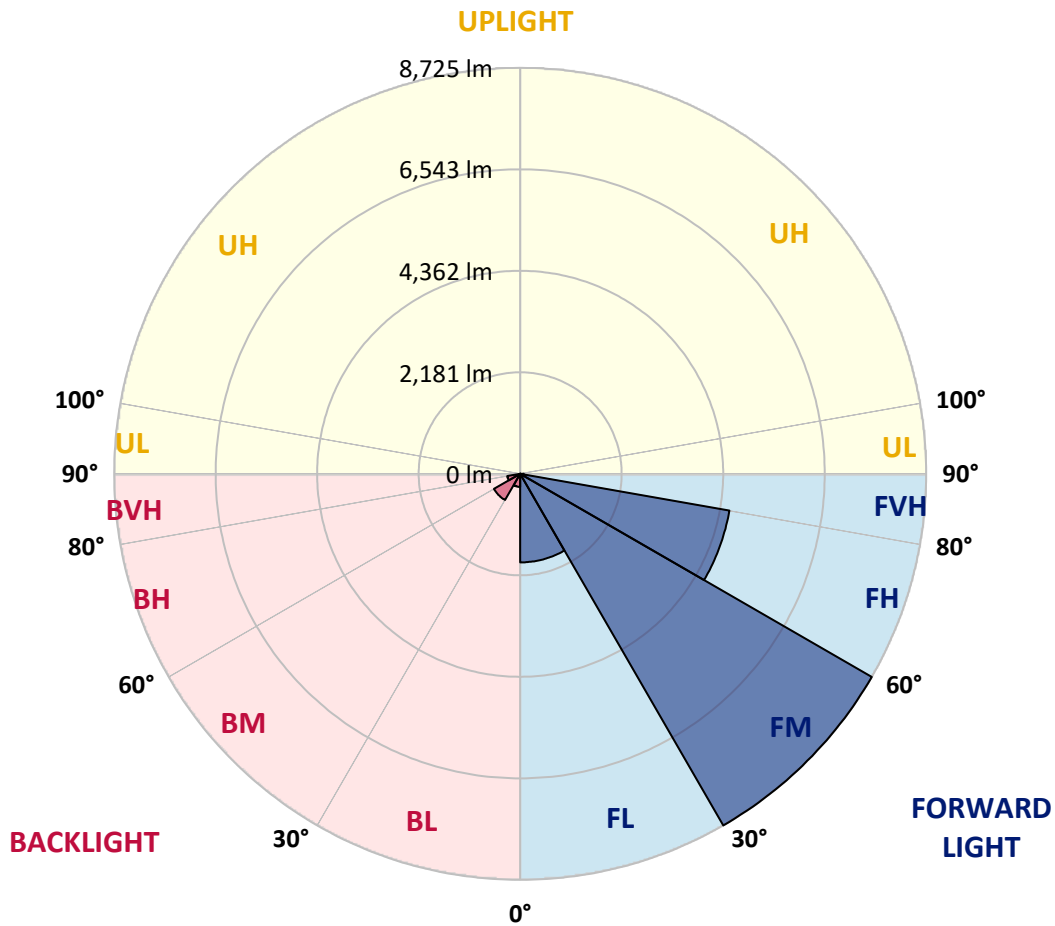
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.4	11.5			
FM (30°-60°)	8724.6	52.9			
FH (60°-80°)	4565.2	27.7			G2/5000
FVH (80°-90°)	75.3	0.5			G1/100
BL (0°-30°)	280.7	1.7	B1/500		
BM (30°-60°)	649.7	3.9	B1/1000		
BH (60°-80°)	280.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	2631.2	2647.6	2624.1	2579.0	2511.5	2467.5	2360.0	2258.7	2146.1	2110.3
5°	3207.4	3221.7	3195.1	3146.0	3055.9	2970.0	2828.7	2616.9	2396.9	2326.2
7.5°	3634.2	3642.4	3632.1	3587.1	3501.1	3403.9	3246.3	2995.6	2669.1	2591.3
10°	3941.2	3967.8	3964.8	3947.4	3890.0	3811.2	3643.4	3357.9	2974.1	2873.8
12.5°	4144.9	4174.6	4192.0	4230.8	4227.8	4177.6	4030.3	3728.3	3278.0	3160.3
15°	4204.2	4236.0	4302.5	4392.5	4472.4	4498.0	4394.6	4091.7	3612.7	3462.2
17.5°	4170.5	4219.6	4299.4	4441.7	4616.7	4732.3	4721.1	4442.7	3916.7	3744.7
20°	4245.2	4292.2	4354.7	4474.4	4678.1	4887.9	4971.8	4778.4	4218.6	4038.4
22.5°	4658.6	4650.4	4656.6	4676.0	4797.8	5005.6	5178.5	5083.4	4517.4	4333.2
25°	5313.6	5276.8	5214.4	5108.9	5078.2	5178.5	5358.7	5353.5	4832.6	4635.1
27.5°	6064.8	6058.7	5912.3	5658.5	5515.2	5476.4	5562.3	5616.6	5144.8	4933.9
30°	6784.3	6800.7	6603.1	6320.7	6057.7	5905.2	5827.4	5866.3	5462.0	5256.3
32.5°	7410.6	7428.0	7213.1	6882.5	6557.1	6372.9	6209.1	6112.9	5807.9	5583.8
35°	7939.7	7957.1	7710.5	7345.1	6998.2	6831.4	6646.1	6383.1	6155.9	5947.1
37.5°	8412.6	8407.4	8076.9	7708.4	7367.6	7235.6	7138.4	6715.7	6514.1	6312.5
40°	8692.0	8713.4	8431.0	8024.7	7694.1	7597.9	7591.8	7128.2	6927.6	6732.1
42.5°	8773.8	8811.7	8607.0	8273.4	7973.5	7869.1	8029.8	7574.4	7408.6	7218.2
45°	8626.5	8663.3	8570.2	8338.9	8163.9	8096.3	8406.4	8037.0	7922.3	7734.0
47.5°	8196.6	8242.7	8265.2	8216.1	8214.0	8282.6	8744.1	8524.1	8532.3	8339.9
50°	7364.6	7442.4	7649.1	7823.1	8092.2	8430.0	9072.7	9052.2	9220.0	9054.2
52.5°	5851.9	5962.5	6674.8	7150.7	7755.5	8402.3	9433.9	9899.6	10426.7	10184.1
55°	4702.6	4702.6	5281.9	6172.3	7098.5	8220.2	9591.5	10450.2	11248.5	11191.2
57.5°	3833.8	3879.8	4249.3	5036.3	6147.7	7786.2	9688.8	10796.1	11910.6	11868.7
60°	2366.2	2465.4	3163.4	3940.2	5066.0	7013.5	9627.4	11146.1	12714.0	12747.8
62.5°	1332.5	1369.3	1680.5	2834.9	3939.2	5974.8	9157.6	11341.6	13741.5	13884.8
65°	920.1	938.5	1058.2	1764.4	2730.5	4756.9	8239.6	11219.8	14771.1	15060.7
67.5°	668.3	677.5	752.2	1077.7	1620.1	3448.9	6800.7	10605.8	15316.6	15800.7
70°	513.8	519.9	574.1	708.2	956.9	2128.7	4939.1	9384.8	14921.5	15499.8
72.5°	417.6	423.7	465.7	524.0	634.5	1258.8	2993.5	7621.5	13177.6	13801.9
75°	352.1	360.2	398.1	436.0	497.4	808.5	1404.1	5307.5	9909.8	10319.2
77.5°	195.5	180.1	323.4	361.3	419.6	511.7	657.0	3123.5	5550.0	5663.6
80°	121.8	125.9	256.9	290.7	322.4	257.9	300.9	1202.5	1924.0	1827.8
82.5°	7.2	16.4	197.5	209.8	221.1	110.5	113.6	408.3	463.6	425.7
85°	0.0	0.0	90.1	72.7	76.8	31.7	32.7	95.2	62.4	67.5
87.5°	0.0	0.0	0.0	2.0	0.0	3.1	6.1	8.2	3.1	4.1
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°
1900.5	0°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
1997.7	2.5°	1926.1	1854.4	1709.1	1566.9	1451.2	1343.8	1267.0	1194.3	1157.5	1155.4
2126.7	5°	1984.4	1834.0	1543.3	1286.4	1079.7	913.9	806.5	729.7	690.8	677.5
2285.3	7.5°	2066.3	1840.1	1398.0	1040.8	797.2	655.0	593.6	569.0	560.8	551.6
2464.4	10°	2169.7	1854.4	1268.0	838.2	628.4	556.7	532.2	521.9	515.8	509.7
2666.0	12.5°	2285.3	1867.8	1139.1	695.9	552.6	515.8	498.4	486.1	477.9	470.8
2872.8	15°	2397.9	1875.9	1005.0	596.7	513.8	484.1	465.7	452.4	441.1	432.9
3075.4	17.5°	2509.4	1887.2	879.1	537.3	482.0	452.4	433.9	417.6	408.3	399.1
3288.3	20°	2633.3	1885.2	760.4	495.3	450.3	420.6	401.2	385.8	376.6	366.4
3513.4	22.5°	2747.9	1874.9	656.0	459.5	417.6	388.9	367.4	352.1	342.8	334.7
3743.7	25°	2879.9	1866.7	569.0	426.8	386.9	358.2	334.7	320.3	310.1	302.9
3975.0	27.5°	3006.8	1854.4	505.6	397.1	357.2	329.5	307.0	290.7	281.4	276.3
4213.4	30°	3131.7	1851.4	482.0	368.4	330.6	302.9	280.4	265.1	257.9	255.9
4475.4	32.5°	3282.1	1859.6	492.3	358.2	306.0	278.4	256.9	245.6	238.5	238.5
4767.1	35°	3442.8	1857.5	507.6	367.4	289.6	253.8	237.4	230.3	223.1	223.1
5090.5	37.5°	3644.4	1860.6	519.9	382.8	283.5	233.3	224.1	214.9	210.8	210.8
5444.6	40°	3945.3	1961.9	513.8	396.1	281.4	219.0	200.6	197.5	194.5	194.5
5844.8	42.5°	4313.7	2181.9	521.9	397.1	280.4	208.8	184.2	190.4	183.2	182.2
6296.1	45°	4717.0	2422.4	574.1	375.6	279.4	203.7	176.0	183.2	171.9	171.9
6819.1	47.5°	5117.1	2660.9	627.4	344.9	276.3	202.6	168.9	164.8	161.7	162.7
7500.7	50°	5668.8	2855.4	647.8	302.9	269.2	200.6	155.6	156.6	154.5	156.6
8461.7	52.5°	6269.5	2896.3	623.3	255.9	248.7	194.5	146.3	150.4	149.4	151.5
9138.2	55°	6644.1	2852.3	514.8	212.9	217.0	169.9	137.1	145.3	145.3	145.3
9799.3	57.5°	7030.9	2665.0	365.4	173.0	180.1	139.2	129.0	140.2	139.2	138.2
10595.5	60°	7309.3	2362.1	240.5	142.3	143.3	114.6	119.7	132.0	131.0	125.9
11416.3	62.5°	7517.1	2027.4	154.5	120.8	109.5	103.4	109.5	119.7	115.6	104.4
12112.2	65°	7493.5	1563.8	118.7	103.4	90.1	90.1	95.2	104.4	92.1	73.7
12245.3	67.5°	7056.5	1058.2	98.2	87.0	75.7	74.7	78.8	87.0	78.8	62.4
11563.7	70°	6275.6	691.8	78.8	67.5	60.4	55.3	63.5	74.7	66.5	50.1
9844.3	72.5°	5093.6	421.7	59.4	49.1	44.0	35.8	50.1	61.4	53.2	36.8
6845.7	75°	3295.4	214.9	40.9	31.7	23.5	21.5	36.8	46.1	36.8	22.5
3037.5	77.5°	1260.9	90.1	22.5	14.3	12.3	10.2	20.5	27.6	15.4	5.1
588.5	80°	242.6	37.9	11.3	7.2	6.1	4.1	3.1	2.0	0.0	0.0
104.4	82.5°	42.0	12.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20.5	85°	14.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1900.5
1153.4
675.5
549.6
507.6
468.7
431.9
398.1
365.4
333.6
301.9
276.3
254.8
238.5
223.1
210.8
194.5
181.1
171.9
162.7
156.6
151.5
145.3
138.2
125.9
102.3
71.6
60.4
48.1
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