

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: P943382

Luminaire Tested: **GALN-SB7D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64459 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

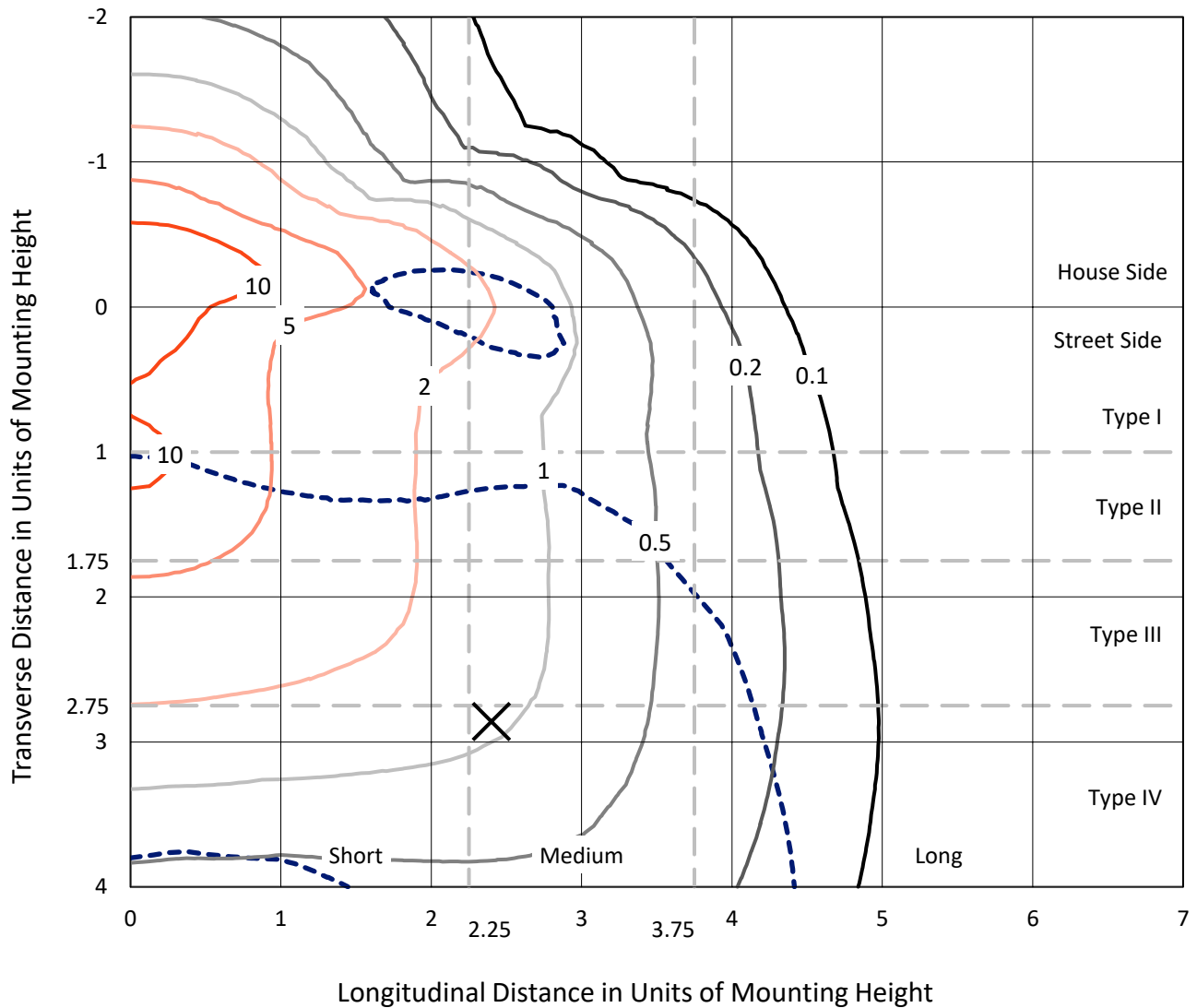
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

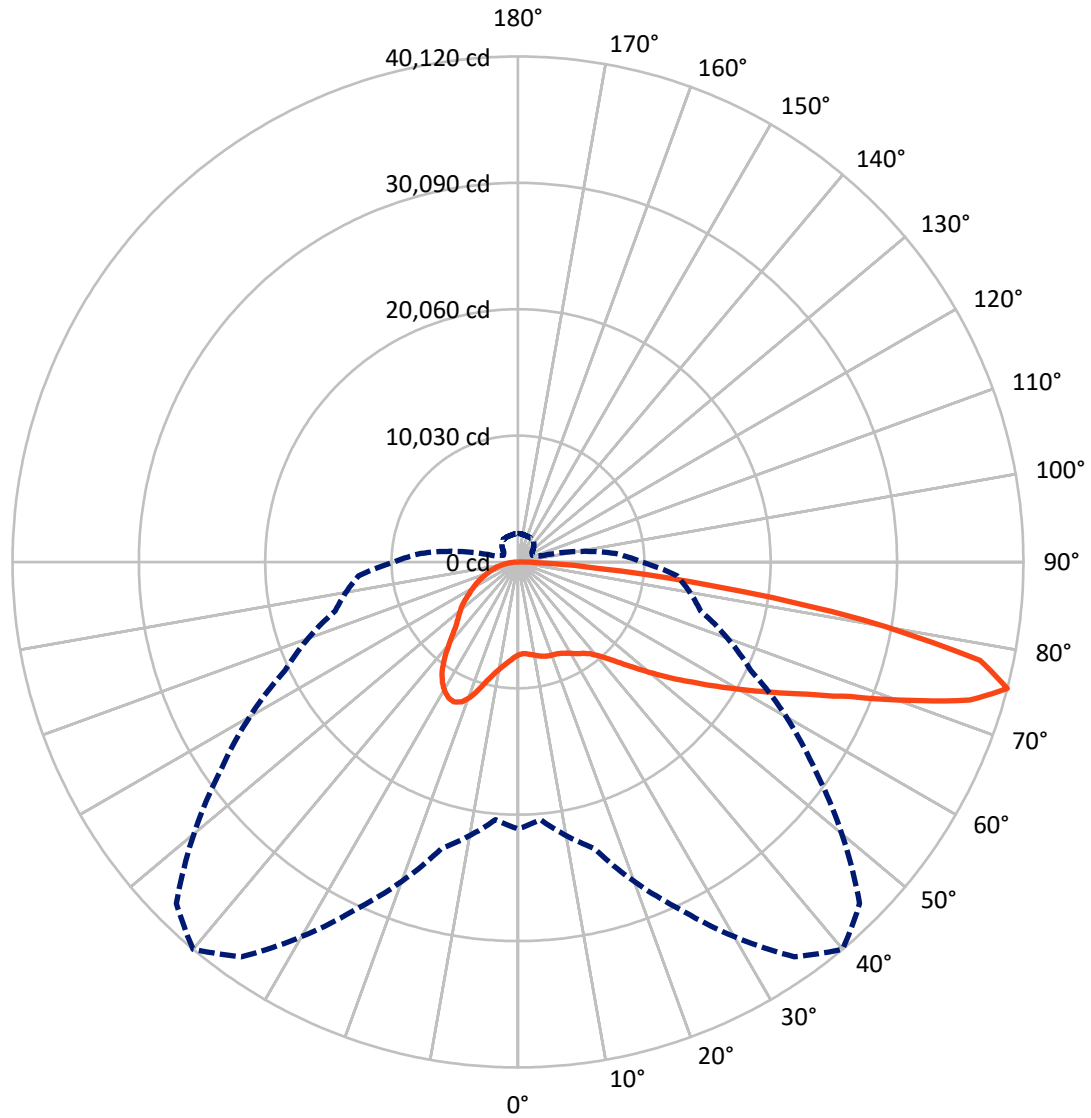
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19971.5	0.0	19971.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	44487.5	0.0	44487.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	64459.0	0.0	64459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.8	1.1
10°-20°	2470.3	3.8
20°-30°	4510.6	7.0
30°-40°	6397.2	9.9
40°-50°	8638.2	13.4
50°-60°	11620.6	18.0
60°-70°	14749.3	22.9
70°-80°	13385.9	20.8
80°-90°	1951.2	3.0
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°	64459.0	100.0
0°-180°	64459.0	100.0

Coefficient of Utilization



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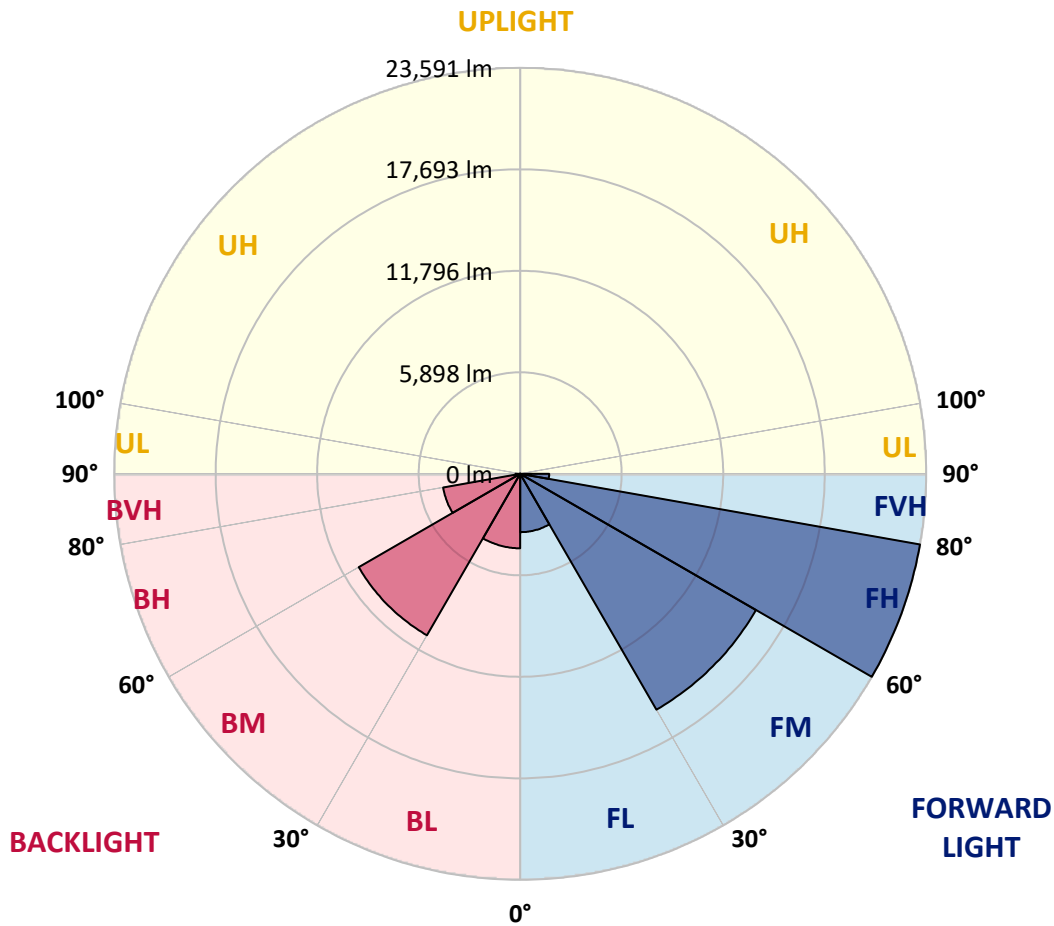
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3390.6	5.3			
FM (30°-60°)	15823.2	24.5			
FH (60°-80°)	23591.0	36.6			G5
FVH (80°-90°)	1682.6	2.6			G5
BL (0°-30°)	4326.0	6.7	B4/5000		
BM (30°-60°)	10832.8	16.8	B5		
BH (60°-80°)	4544.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	268.6	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0
2.5°	7258.2	7299.2	7288.9	7275.2	7275.2	7278.7	7275.2	7299.2	7323.1	7347.0
5°	7333.4	7374.4	7353.9	7336.8	7323.1	7319.7	7309.4	7306.0	7319.7	7350.5
7.5°	7480.4	7521.4	7490.6	7459.9	7432.5	7418.8	7405.2	7384.6	7374.4	7391.5
10°	7644.5	7685.5	7647.9	7593.2	7548.8	7531.7	7518.0	7497.5	7483.8	7494.1
12.5°	7808.6	7849.6	7798.3	7723.1	7665.0	7654.7	7637.6	7630.8	7627.4	7624.0
15°	7962.4	7996.6	7931.7	7842.8	7781.2	7764.1	7747.0	7757.3	7774.4	7794.9
17.5°	8082.1	8116.3	8020.5	7904.3	7846.2	7839.4	7829.1	7863.3	7911.1	7962.4
20°	8191.5	8225.7	8102.6	7945.3	7877.0	7877.0	7880.4	7952.2	8020.5	8095.8
22.5°	8345.3	8372.7	8222.3	8006.9	7907.7	7914.6	7941.9	8013.7	8099.2	8201.7
25°	8574.4	8594.9	8410.3	8123.1	8010.3	8030.8	8054.7	8088.9	8171.0	8290.6
27.5°	8943.6	8960.7	8718.0	8328.2	8157.3	8191.5	8225.7	8201.7	8239.4	8341.9
30°	9463.3	9473.5	9165.9	8649.6	8406.9	8424.0	8430.8	8331.7	8259.9	8341.9
32.5°	10078.7	10075.3	9709.4	9039.4	8690.6	8673.5	8615.4	8420.5	8253.0	8324.8
35°	11032.5	10994.9	10523.1	9586.4	9012.0	8906.0	8769.3	8519.7	8287.2	8307.7
37.5°	12612.0	12495.8	11842.8	10482.1	9490.6	9220.6	9018.8	8680.4	8362.4	8300.9
40°	14393.2	14246.2	13528.3	11709.5	10208.6	9774.4	9449.6	8909.4	8485.5	8331.7
42.5°	16506.1	16297.5	15524.9	13155.6	11118.0	10488.9	10000.0	9200.0	8666.7	8430.8
45°	19100.9	18824.0	17730.0	14786.4	12263.3	11425.7	10772.7	9641.1	8943.6	8622.3
47.5°	21723.2	21791.5	20236.0	16653.1	13637.7	12581.3	11740.2	10304.3	9347.0	8930.0
50°	24509.5	24557.4	22728.3	18721.4	15196.6	13887.2	12827.4	11046.2	9907.7	9367.6
52.5°	26683.9	26690.7	24991.6	20885.6	16820.6	15323.1	14000.1	11894.1	10557.3	9948.8
55°	28044.6	28027.5	26577.9	22933.4	18687.3	16830.8	15299.2	12858.2	11350.5	10632.5
57.5°	29032.6	28981.3	27671.9	24694.1	20677.0	18612.0	16769.3	13952.2	12287.2	11446.2
60°	29408.7	29377.9	28413.8	26215.5	22769.3	20581.3	18465.0	15176.1	13350.5	12406.9
62.5°	29552.3	29610.4	29142.0	27689.0	25008.7	22762.5	20328.3	16639.4	14547.1	13494.1
65°	30058.3	30164.2	30068.5	29617.2	27538.6	25316.4	22800.1	18379.6	15853.1	14659.9
67.5°	31060.0	31165.9	31207.0	31924.9	30629.2	28499.3	25883.9	20547.1	17381.3	15870.2
70°	31036.0	31005.3	31730.1	33760.8	34499.3	32906.1	30041.2	23213.8	19203.5	16875.3
72.5°	28249.7	28003.5	29716.4	33740.3	37719.8	37507.9	35118.1	26653.1	20776.2	16998.4
75°	21193.3	20536.8	23562.5	30407.0	38256.6	40119.8	38345.5	28786.5	20403.5	15018.9
77.5°	9063.3	8403.5	11969.3	22509.5	34239.5	37504.4	35384.8	25114.6	16287.3	9931.7
80°	2372.7	2369.2	3617.1	10205.2	23285.6	27695.8	24297.5	16218.9	9306.0	3548.7
82.5°	981.2	957.3	1329.9	3969.2	11377.8	15541.9	12683.8	7234.2	3360.7	960.7
85°	365.8	362.4	646.2	1370.9	4013.7	6410.3	4639.3	1849.6	837.6	468.4
87.5°	102.6	99.1	140.2	475.2	977.8	1483.8	793.2	304.3	235.9	184.6
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°
7371.0	0°	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0	7371.0
7384.6	2.5°	7394.9	7412.0	7442.8	7466.7	7497.5	7531.7	7579.5	7610.3	7641.1	7661.6
7401.7	5°	7425.7	7463.3	7541.9	7620.5	7712.9	7798.3	7897.5	7969.3	8027.4	8044.5
7463.3	7.5°	7494.1	7555.6	7688.9	7822.3	7969.3	8109.4	8253.0	8376.1	8475.3	8512.9
7572.7	10°	7613.7	7695.8	7883.8	8071.8	8266.7	8482.1	8666.7	8844.5	8984.7	9042.8
7702.6	12.5°	7764.1	7866.7	8112.9	8372.7	8642.8	8940.2	9179.5	9398.3	9572.7	9651.3
7883.8	15°	7959.0	8092.3	8406.9	8755.6	9152.2	9565.9	9870.1	10112.9	10307.7	10403.5
8071.8	17.5°	8171.0	8348.8	8745.3	9271.8	9839.4	10383.0	10738.5	10916.3	11118.0	11210.3
8246.2	20°	8376.1	8594.9	9162.4	9928.2	10683.8	11261.6	11548.8	11596.6	11610.3	11620.6
8410.3	22.5°	8588.1	8882.1	9685.5	10755.6	11565.9	11965.9	12006.9	11801.8	11514.6	11381.2
8571.0	25°	8820.6	9210.3	10369.3	11668.4	12324.8	12372.7	12058.2	11559.0	11015.4	10765.9
8700.9	27.5°	9046.2	9589.8	11189.8	12540.2	12871.9	12451.3	11774.4	11066.7	10410.3	10147.1
8793.2	30°	9271.8	10024.0	12095.8	13302.6	13121.4	12256.5	11326.5	10536.8	9877.0	9600.0
8875.3	32.5°	9500.9	10530.0	13138.5	13853.1	13077.0	11842.8	10769.3	9941.9	9360.7	9070.1
8947.0	35°	9760.7	11152.2	14126.6	14153.9	12779.5	11234.2	10034.2	9230.8	8724.8	8492.3
9032.5	37.5°	10099.2	11941.9	14998.4	14229.1	12259.9	10341.9	9121.4	8389.8	7972.7	7866.7
9159.0	40°	10519.7	12892.4	15665.0	14109.5	11490.6	9258.2	8123.1	7538.5	7302.6	7326.5
9330.0	42.5°	11066.7	13955.6	16133.4	13801.8	10420.6	8140.2	7247.9	6988.1	7100.9	7196.6
9586.4	45°	11777.8	15059.9	16424.0	13278.7	9210.3	7193.2	6731.7	6793.2	6878.7	6888.9
10000.0	47.5°	12687.2	16177.8	16615.5	12488.9	7976.1	6526.5	6403.4	6417.1	6400.0	6328.2
10618.9	50°	13822.3	17265.0	16786.4	11442.8	6926.5	6109.4	5945.3	5897.5	5661.6	5429.1
11442.8	52.5°	15114.6	18263.3	16858.2	10143.6	6109.4	5760.7	5494.0	5193.2	4752.2	4680.4
12478.7	55°	16550.5	19186.4	16673.6	8547.0	5422.2	5312.8	4909.4	4547.0	4499.2	4437.6
13842.8	57.5°	18266.7	20181.3	16297.5	6765.8	4718.0	4789.8	4396.6	4437.6	4352.2	4256.4
15596.6	60°	20143.7	21210.3	15637.7	5141.9	3989.8	4136.8	4263.3	4259.8	4235.9	4157.3
17446.2	62.5°	21832.6	21887.3	14338.5	3938.5	3350.4	3630.8	3976.1	3972.7	3952.2	3907.7
19377.9	65°	22837.7	21784.7	12171.0	3100.9	2823.9	3213.7	3586.3	3613.7	3617.1	3613.7
20830.9	67.5°	22659.9	20584.7	9196.6	2468.4	2389.8	2789.8	3200.0	3237.6	3265.0	3271.8
21015.5	70°	20649.7	17948.8	5996.6	1969.2	2003.4	2417.1	2834.2	2871.8	2895.7	2923.1
18236.0	72.5°	16095.8	13196.6	3432.5	1593.2	1665.0	2095.7	2471.8	2516.3	2529.9	2581.2
12690.7	75°	9808.6	7760.7	1853.0	1254.7	1367.5	1791.5	2112.8	2164.1	2188.0	2249.6
6232.5	77.5°	4663.3	3360.7	1056.4	977.8	1100.9	1463.3	1784.6	1842.7	1777.8	1812.0
1719.7	80°	1576.1	1247.9	666.7	745.3	841.0	1141.9	1429.1	1487.2	1350.4	1343.6
570.9	82.5°	550.4	506.0	423.9	495.7	543.6	817.1	1080.3	1155.6	1005.1	1001.7
256.4	85°	215.4	205.1	235.9	270.1	324.8	502.6	711.1	748.7	618.8	499.1
75.2	87.5°	44.4	47.9	58.1	61.5	99.1	174.4	256.4	314.5	249.6	212.0
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>
7371.0
7647.9
8051.3
8516.3
9046.2
9651.3
10396.6
11206.9
11647.9
11418.9
10803.5
10177.8
9630.8
9107.7
8543.6
7941.9
7408.6
7285.5
6957.3
6382.9
5459.9
4704.3
4447.9
4239.3
4129.9
3890.6
3613.7
3278.6
2936.8
2601.7
2256.4
1784.6
1329.9
953.9
492.3
194.9
0.0

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