

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: P951768

Luminaire Tested: **GALN-SB5D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43686 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

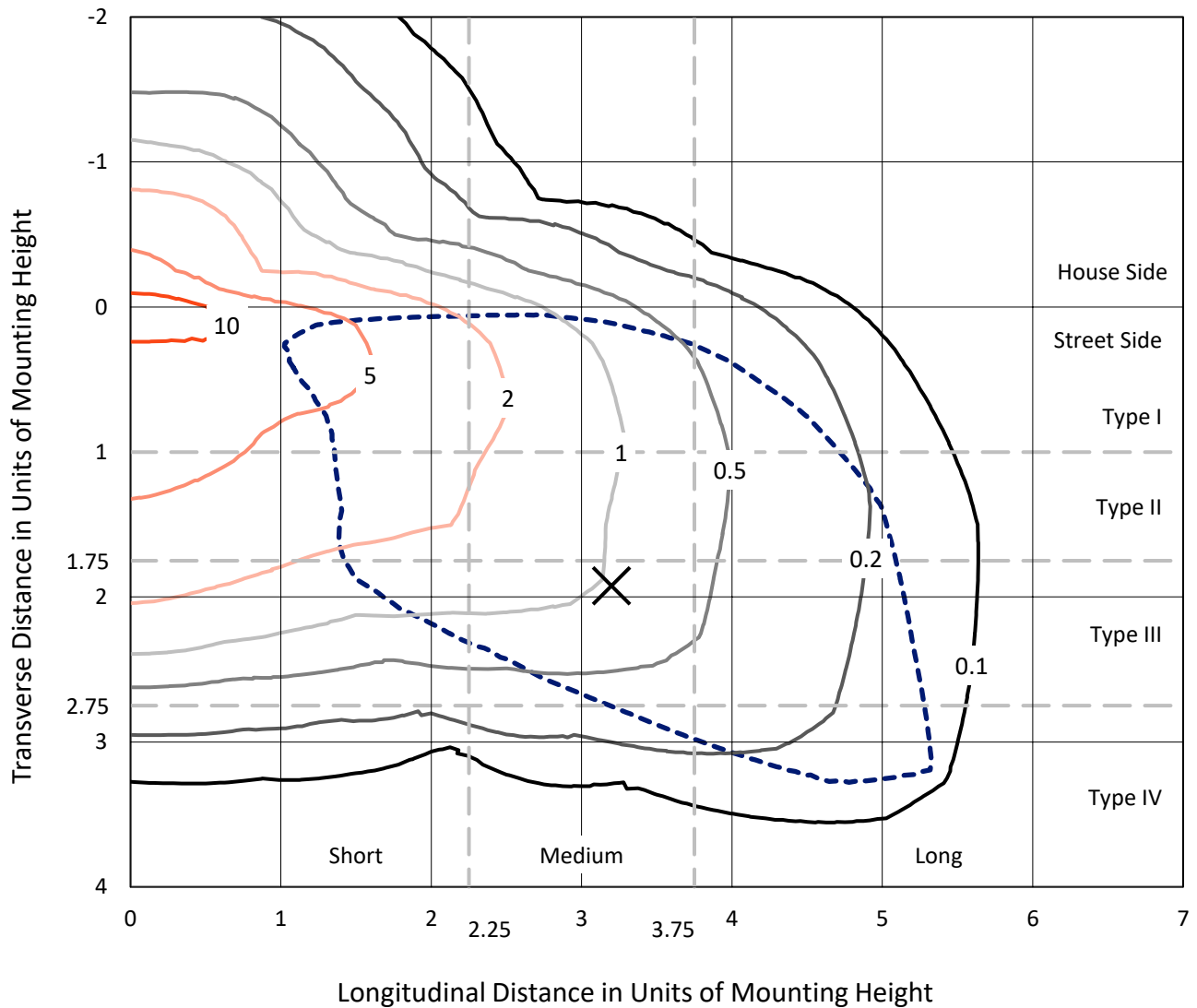
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

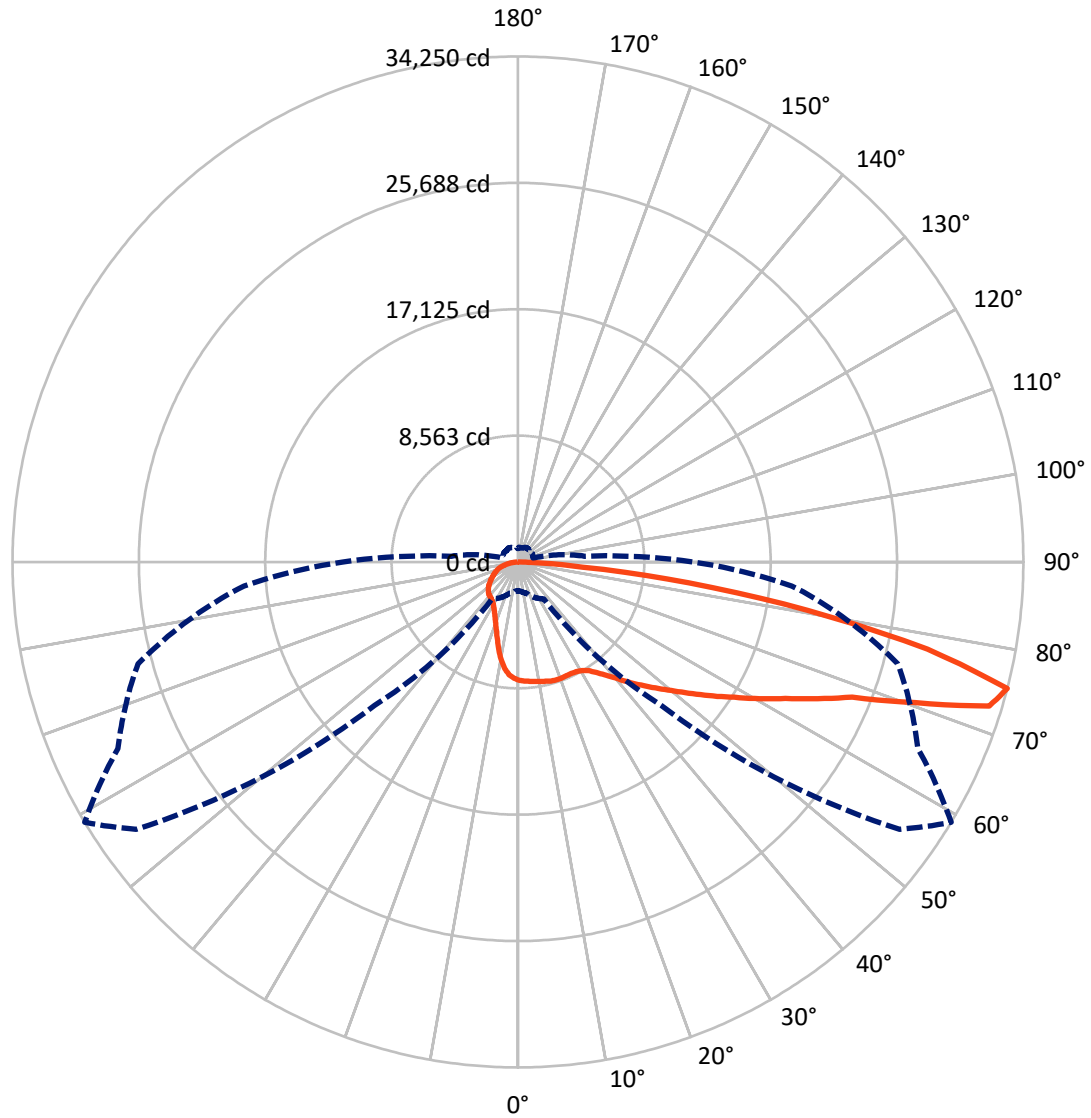
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8193.6	0.0	8193.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35492.4	0.0	35492.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	43686.0	0.0	43686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.0	1.6
10°-20°	1837.8	4.2
20°-30°	2791.4	6.4
30°-40°	4149.4	9.5
40°-50°	6170.9	14.1
50°-60°	8376.2	19.2
60°-70°	10226.0	23.4
70°-80°	8025.2	18.4
80°-90°	1390.2	3.2
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°	43686.0	100.0
0°-180°	43686.0	100.0

Coefficient of Utilization



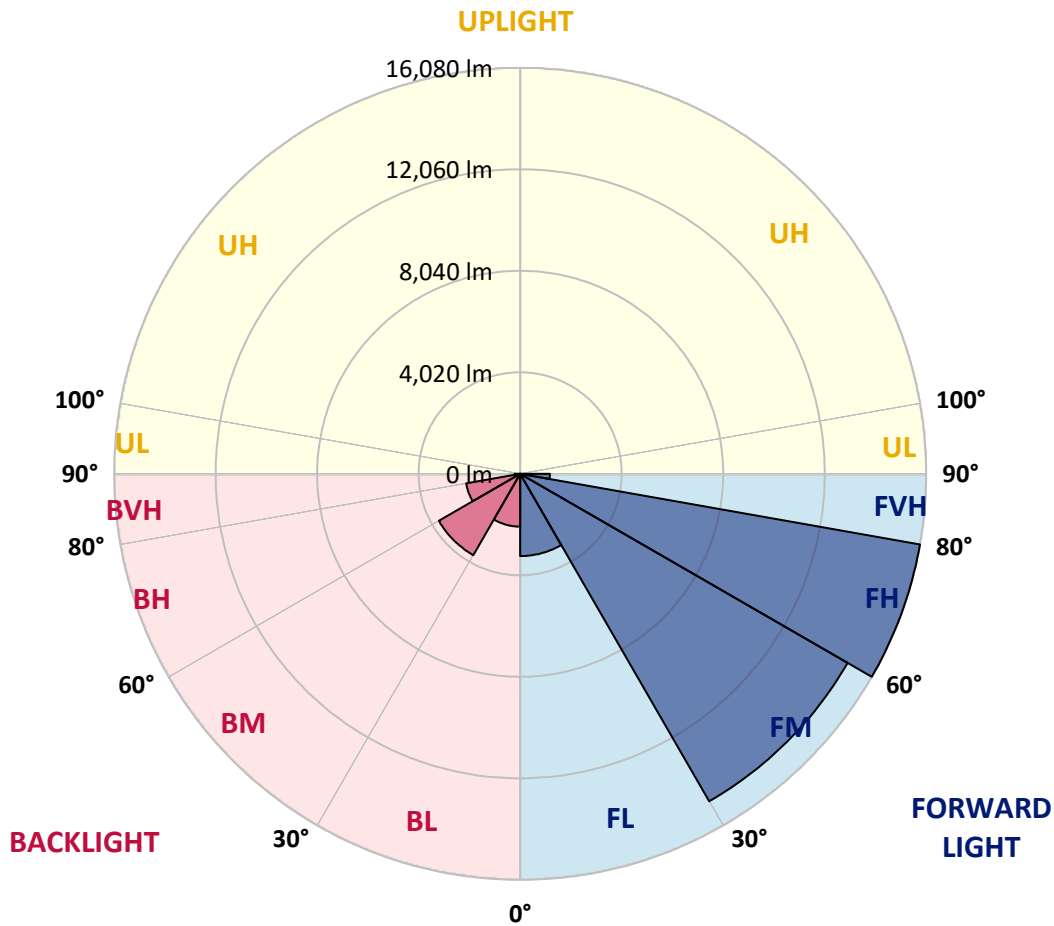
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3257.3	7.5			
FM (30°-60°)	14977.4	34.3			
FH (60°-80°)	16080.4	36.8			G5
FVH (80°-90°)	1177.4	2.7			G5
BL (0°-30°)	2090.9	4.8	B3/2500		
BM (30°-60°)	3719.1	8.5	B3/5000		
BH (60°-80°)	2170.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	212.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5
2.5°	8086.6	8058.4	8086.6	8074.9	8070.2	8060.8	8063.1	8079.6	8070.2	8081.9
5°	8032.6	8016.1	8044.3	8037.3	8067.8	8072.5	8103.1	8121.9	8133.6	8136.0
7.5°	7943.3	7926.8	7966.8	7999.7	8065.5	8084.3	8147.7	8178.3	8194.7	8222.9
10°	7616.6	7609.6	7708.3	7832.8	7987.9	8084.3	8180.6	8232.3	8258.2	8333.4
12.5°	7038.5	7047.9	7177.1	7416.8	7727.1	8037.3	8218.2	8293.4	8333.4	8427.4
15°	6486.2	6483.9	6624.9	6881.0	7315.8	7830.5	8237.0	8366.3	8434.4	8573.1
17.5°	6166.6	6157.2	6255.9	6451.0	6855.2	7513.2	8190.0	8406.2	8551.9	8725.8
20°	6107.9	6089.1	6140.8	6237.1	6523.8	7165.4	8067.8	8406.2	8645.9	8871.5
22.5°	6321.7	6291.2	6270.0	6258.3	6385.2	6878.7	7929.2	8378.0	8784.6	9080.7
25°	6751.8	6704.8	6596.7	6490.9	6453.3	6749.4	7807.0	8371.0	8991.4	9362.7
27.5°	7447.4	7388.6	7170.1	6916.3	6688.3	6815.2	7752.9	8413.3	9219.4	9661.2
30°	8309.9	8246.4	7971.5	7581.4	7172.4	7059.6	7821.1	8537.8	9510.8	10058.3
32.5°	9083.1	9012.6	8777.5	8380.4	7828.1	7482.7	8037.3	8775.2	9969.0	10610.6
35°	9769.3	9687.0	9475.5	9108.9	8631.8	8077.2	8427.4	9195.9	10620.0	11508.3
37.5°	10441.4	10345.0	10114.7	9727.0	9393.3	8869.2	8965.5	9736.4	11484.8	12598.8
40°	11193.4	11054.8	10775.1	10392.0	10067.7	9797.5	9672.9	10399.1	12363.8	13816.1
42.5°	11921.9	11790.3	11456.6	11130.0	10723.4	10645.9	10493.1	11174.6	13324.9	15153.3
45°	12706.9	12549.4	12145.2	11731.6	11475.4	11209.9	11287.4	11950.1	14267.3	16516.4
47.5°	13442.4	13266.2	12789.1	12328.5	12187.5	11684.6	12016.0	12803.2	15247.3	17898.2
50°	13839.6	13665.7	13268.5	12852.6	12742.1	12269.8	12805.6	13740.9	16274.3	19275.3
52.5°	14171.0	13983.0	13463.6	13233.3	13200.4	12906.6	13778.5	14812.5	17301.3	20492.7
55°	14523.5	14314.3	13651.6	13444.8	13595.2	13621.1	14932.4	16027.5	18387.0	21679.5
57.5°	14930.0	14664.5	13832.6	13623.4	13980.6	14457.7	16257.8	17287.2	19454.0	22779.3
60°	15313.1	15045.2	14180.4	13907.8	14396.6	15428.3	17778.3	18812.4	20661.9	23759.3
62.5°	15388.3	15167.4	14457.7	14455.3	14960.6	16561.0	19578.5	20351.7	21717.1	24727.5
65°	14086.4	13947.7	13527.1	14434.2	15769.0	18192.0	21583.1	22321.0	23059.0	25573.6
67.5°	10721.1	10739.9	10709.3	12460.1	15115.7	20535.0	24485.5	24429.1	24715.8	26523.0
70°	4902.3	5012.7	5731.8	8601.3	12110.0	20805.2	29284.3	28553.5	26795.6	27752.1
72.5°	2648.5	2733.1	3026.9	4166.7	7280.5	18497.5	32870.5	33389.9	29561.6	28579.3
75°	1943.5	1990.5	2195.0	2648.5	3057.5	13748.0	31585.1	34250.0	29907.1	26649.9
77.5°	1454.7	1475.8	1642.7	2098.6	1565.2	7247.6	25237.5	28365.4	25601.8	21895.7
80°	1055.2	1078.7	1203.2	1574.6	1097.5	2650.9	17329.5	19909.9	17533.9	13957.1
82.5°	728.5	737.9	792.0	1071.6	766.1	1029.3	9832.7	11675.2	9788.1	4897.6
85°	439.5	451.2	474.7	625.1	434.8	488.8	4244.2	4389.9	2925.8	1170.3
87.5°	181.0	192.7	211.5	263.2	171.6	136.3	700.3	878.9	547.6	343.1
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°
8018.5	0°	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5	8018.5
8042.0	2.5°	8030.2	8013.8	7969.1	7908.0	7851.6	7781.1	7750.6	7724.7	7701.2	7656.6
8105.4	5°	8079.6	8034.9	7915.1	7760.0	7583.7	7391.0	7203.0	7073.7	6963.3	6881.0
8178.3	7.5°	8154.8	8070.2	7851.6	7534.4	7130.1	6716.5	6342.9	6077.3	5877.5	5804.7
8281.7	10°	8232.3	8131.3	7750.6	7191.2	6493.3	5856.4	5360.5	5087.9	4928.1	4876.4
8403.9	12.5°	8324.0	8175.9	7593.1	6714.2	5781.2	5083.2	4650.8	4491.0	4408.7	4380.5
8554.3	15°	8457.9	8213.5	7355.7	6117.3	5102.0	4519.2	4239.5	4129.1	4086.8	4084.4
8709.4	17.5°	8559.0	8220.6	6986.8	5478.0	4580.3	4178.4	3948.1	3905.8	3934.0	3976.3
8862.1	20°	8671.8	8157.1	6502.7	4895.2	4213.7	3880.0	3783.6	3811.8	3880.0	3941.1
9064.3	22.5°	8751.7	8042.0	5917.5	4441.6	3896.4	3708.4	3703.7	3762.5	3800.1	3830.6
9301.6	25°	8822.2	7846.9	5297.1	4060.9	3635.6	3605.0	3656.7	3637.9	3612.1	3637.9
9539.0	27.5°	8873.9	7539.1	4742.5	3727.2	3452.3	3534.5	3504.0	3461.7	3459.3	3473.4
9818.6	30°	8857.4	7127.8	4286.5	3410.0	3323.0	3402.9	3330.1	3323.0	3316.0	3323.0
10239.3	32.5°	8857.4	6660.1	3936.4	3191.4	3240.8	3210.2	3203.2	3186.7	3158.5	3156.2
10810.4	35°	8906.8	6192.5	3635.6	3073.9	3172.6	3099.8	3104.5	3064.5	3005.8	2977.5
11567.1	37.5°	9007.9	5816.4	3337.1	3017.5	3052.8	3050.4	3031.6	2963.4	2860.0	2770.7
12511.8	40°	9252.3	5706.0	3132.7	2991.6	2996.4	3024.6	2975.2	2843.6	2608.6	2462.9
13470.7	42.5°	9635.3	5891.6	3088.0	2928.2	2958.7	2986.9	2890.6	2585.1	2418.2	2331.3
14476.5	45°	10121.8	6216.0	3184.4	2836.5	2869.4	2918.8	2632.1	2486.4	2411.2	2413.5
15472.9	47.5°	10737.5	6556.7	3363.0	2756.6	2740.2	2768.4	2460.5	2371.2	2267.8	2293.7
16429.4	50°	11449.6	6902.2	3532.2	2648.5	2596.8	2505.2	2350.1	2265.5	2133.9	2072.8
17353.0	52.5°	12220.4	7235.9	3600.3	2516.9	2441.7	2336.0	2274.9	2171.5	2011.7	1910.6
18224.9	55°	12951.3	7539.1	3525.1	2359.5	2286.6	2204.4	2195.0	2131.5	1960.0	1819.0
19000.4	57.5°	13642.2	7792.9	3337.1	2199.7	2129.2	2079.8	2143.3	2112.7	1896.5	1715.6
19733.6	60°	14227.4	7966.8	3064.5	2037.5	1988.2	1962.3	2058.7	2049.3	1807.2	1605.1
20391.6	62.5°	14692.7	8034.9	2763.7	1882.4	1870.7	1823.7	1941.2	1941.2	1694.4	1497.0
20969.8	65°	15057.0	7969.1	2458.2	1729.7	1753.2	1682.7	1797.8	1783.7	1574.6	1400.6
21634.8	67.5°	15378.9	7752.9	2119.8	1579.3	1633.3	1544.0	1647.4	1614.5	1442.9	1304.3
22210.6	70°	15522.3	7250.0	1734.4	1428.8	1494.6	1407.7	1497.0	1435.9	1294.9	1200.9
21578.4	72.5°	14370.7	6025.6	1365.4	1271.4	1327.8	1257.3	1334.8	1264.3	1135.1	1092.8
18633.8	75°	11889.0	4521.6	1050.5	1099.8	1142.1	1088.1	1139.8	1088.1	970.6	1001.1
13764.4	77.5°	8634.2	3052.8	803.7	918.9	937.7	909.5	954.1	895.4	789.6	782.6
6859.9	80°	4293.6	1788.4	629.8	726.2	719.1	700.3	752.0	723.8	634.5	672.1
1851.9	82.5°	1243.2	766.1	458.3	510.0	495.9	500.6	538.2	552.3	827.2	820.2
575.8	85°	390.1	300.8	275.0	284.4	270.3	277.3	317.3	629.8	582.8	340.8
178.6	87.5°	101.1	103.4	68.2	72.9	75.2	89.3	101.1	383.1	183.3	119.9
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>
8018.5
7635.4
6812.9
5677.8
4796.5
4387.6
4093.8
3992.8
3962.2
3847.1
3654.4
3496.9
3348.9
3186.7
3005.8
2801.3
2481.7
2331.3
2425.3
2359.5
2089.2
1908.3
1819.0
1706.2
1598.1
1489.9
1391.2
1294.9
1182.1
1057.5
914.2
747.3
665.1
839.0
369.0
126.9
0.0

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