

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: P951713

Luminaire Tested: **GALN-SB5D-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55112 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

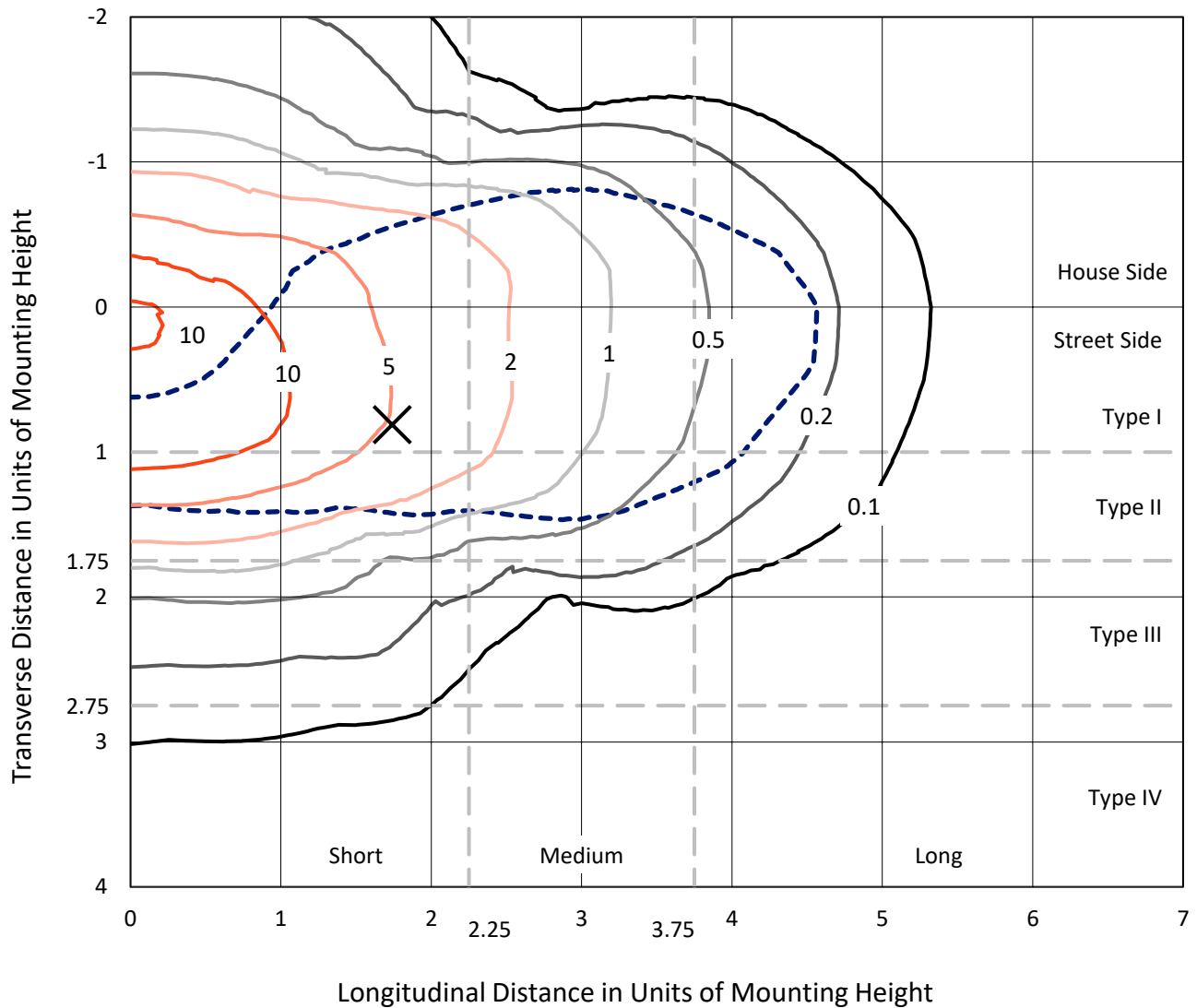
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

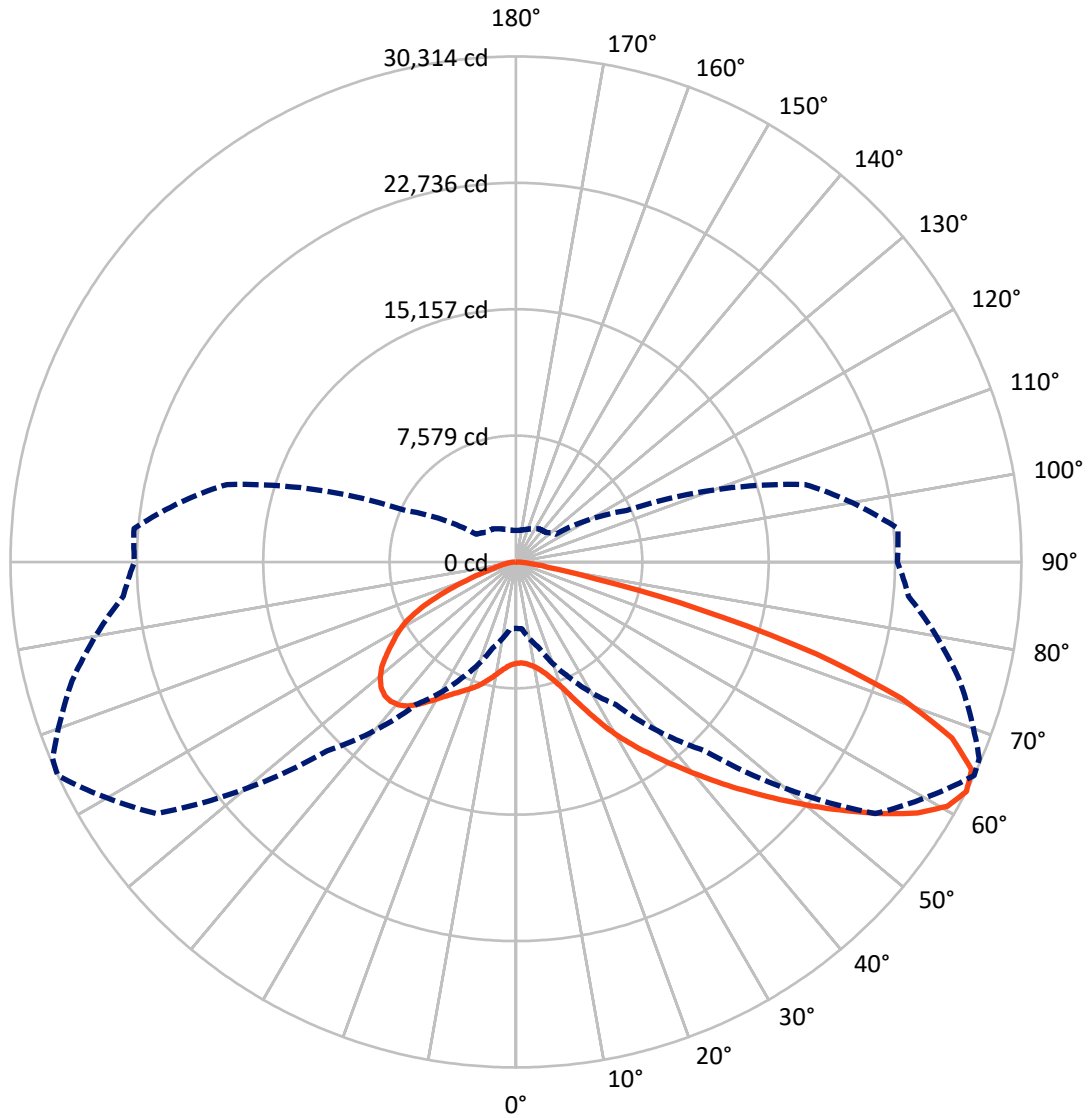
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17390.9	0.0	17390.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	37721.1	0.0	37721.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	55112.0	0.0	55112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.5	1.1
10°-20°	2053.2	3.7
20°-30°	4163.2	7.6
30°-40°	7204.3	13.1
40°-50°	10902.3	19.8
50°-60°	12782.3	23.2
60°-70°	10716.4	19.4
70°-80°	5916.3	10.7
80°-90°	768.5	1.4
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°	55112.0	100.0
0°-180°	55112.0	100.0

Coefficient of Utilization

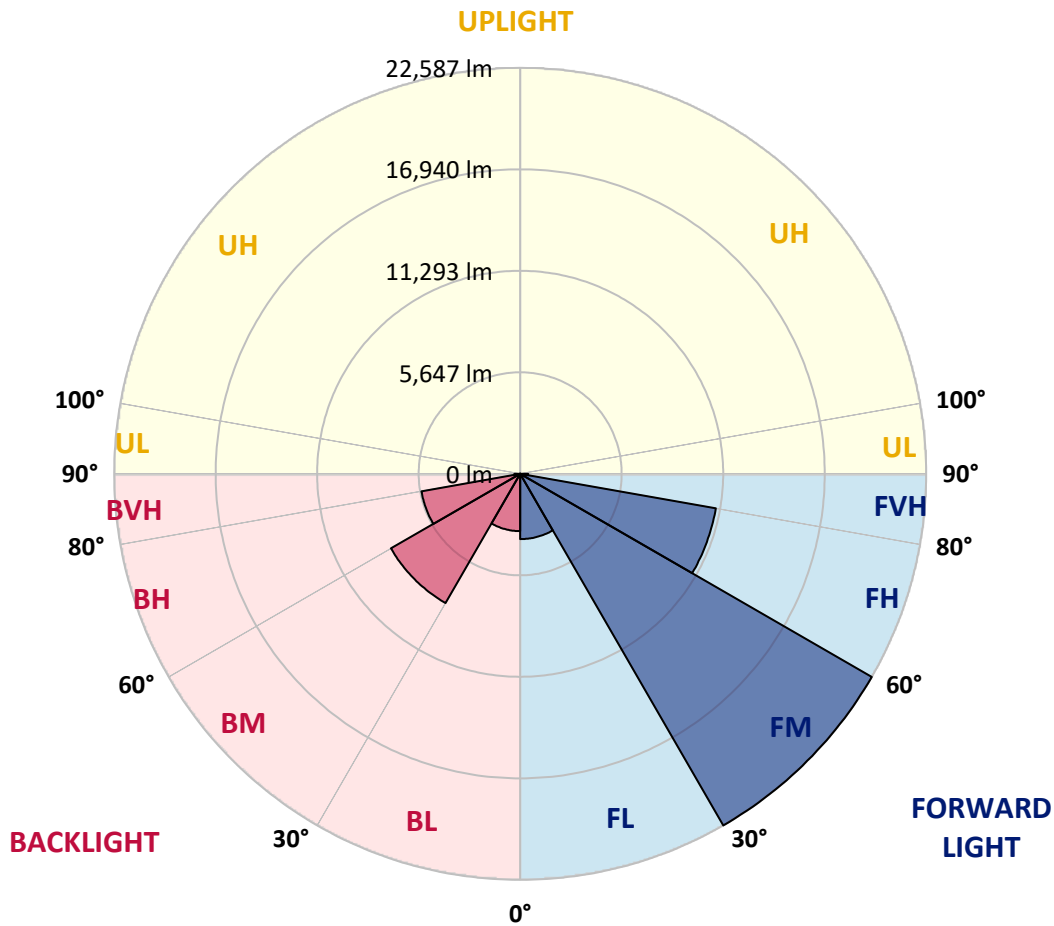


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.6	6.6			
FM (30°-60°)	22586.7	41.0			
FH (60°-80°)	11053.9	20.1			G4/12000
FVH (80°-90°)	447.9	0.8			G3/500
BL (0°-30°)	3189.3	5.8	B4/5000		
BM (30°-60°)	8302.2	15.1	B4/8500		
BH (60°-80°)	5578.9	10.1	B5		G5
BVH (80°-90°)	320.6	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1
2.5°	6033.1	6015.9	6030.2	6030.2	6035.9	6033.1	6053.1	6058.8	6067.4	6084.5
5°	5973.0	5970.2	5995.9	6018.8	6041.7	6061.7	6087.4	6124.6	6130.3	6150.3
7.5°	5953.0	5935.9	5975.9	6004.5	6058.8	6107.4	6176.0	6238.9	6264.7	6273.3
10°	6107.4	6078.8	6116.0	6133.1	6178.9	6227.5	6307.6	6407.6	6436.2	6470.5
12.5°	6370.5	6339.0	6393.3	6419.1	6462.0	6504.9	6559.2	6656.4	6670.7	6733.6
15°	6730.7	6693.6	6727.9	6759.3	6830.8	6870.8	6925.2	7019.5	7019.5	7068.1
17.5°	7219.7	7171.1	7196.8	7208.2	7254.0	7314.0	7405.5	7488.4	7531.3	7514.2
20°	7948.8	7888.7	7888.7	7831.6	7814.4	7863.0	7983.1	8097.5	8143.2	8054.6
22.5°	9043.9	8958.1	8909.5	8715.1	8637.9	8643.6	8763.7	8903.8	8941.0	8783.7
25°	10436.4	10302.0	10236.2	9950.3	9775.9	9624.3	9718.7	9898.8	9950.3	9755.9
27.5°	11828.8	11837.4	11774.5	11431.4	11142.6	10865.3	10816.6	11005.4	11059.7	10839.5
30°	13781.7	13578.7	13458.6	13046.9	12635.1	12246.3	12046.1	12123.3	12137.6	11874.6
32.5°	15465.8	15414.4	15157.0	14796.8	14267.8	13658.8	13324.2	13201.3	13178.4	12803.8
35°	17384.4	17355.8	17084.2	16655.3	16083.4	15237.1	14633.8	14282.1	14253.5	13727.4
37.5°	19334.4	19334.4	19068.5	18599.6	18007.7	16949.8	16032.0	15474.4	15382.9	14696.7
40°	20889.9	20795.5	20844.1	20646.8	19969.2	18845.5	17584.6	16775.4	16652.4	15829.0
42.5°	21773.4	21741.9	22033.6	22253.7	21976.4	21078.6	19294.4	18185.0	18013.4	17075.6
45°	21970.7	21936.4	22456.8	23263.1	23651.9	23283.1	21152.9	19669.0	19460.2	18379.4
47.5°	21516.1	21447.4	22210.9	23483.2	24729.9	25378.9	23165.9	21278.7	20975.7	19648.9
50°	20149.3	20083.6	21238.7	22928.5	25093.0	26802.9	25350.3	22985.7	22522.5	21010.0
52.5°	17178.5	17210.0	19019.9	21341.6	24615.5	27689.2	27231.7	24784.2	24226.7	22402.4
55°	13381.4	13450.0	15674.6	18230.7	22705.5	27554.8	28515.6	26637.0	26082.3	23712.0
57.5°	9581.4	9884.5	11968.9	14499.4	19037.1	25424.7	28795.8	28398.3	27860.8	25141.6
60°	6210.3	6264.7	8409.1	10959.6	14496.5	21639.0	28226.8	29733.6	29313.3	26599.8
62.5°	3980.1	4017.3	5324.0	7665.7	10433.5	16009.1	26311.1	30314.1	30185.4	27563.4
65°	2925.0	2896.4	3577.0	5066.6	7028.1	9873.1	22591.1	30033.8	30288.3	28166.7
67.5°	2441.8	2401.8	2736.3	3508.3	5178.1	5607.0	16715.3	28212.5	29144.6	28098.1
70°	2224.5	2190.2	2393.2	2604.8	4040.2	3754.2	8426.3	24526.9	25962.2	27317.5
72.5°	1884.3	1824.2	2101.6	2313.2	3142.3	2879.3	3482.6	18839.8	20589.7	24815.7
75°	1461.1	1421.1	1658.4	2035.8	2361.8	2247.4	2201.6	11440.0	13350.0	19191.5
77.5°	1158.0	1103.7	1321.0	1586.9	2124.4	1695.6	1604.1	4926.5	6819.4	12252.0
80°	872.1	823.5	1003.6	1255.2	1632.6	1278.1	1037.9	2010.1	2570.5	6207.5
82.5°	620.5	577.6	700.5	920.7	1098.0	1146.6	637.6	1126.6	1266.7	2393.2
85°	397.4	371.7	468.9	577.6	697.7	737.7	388.9	589.0	646.2	986.5
87.5°	217.3	177.3	251.6	268.8	323.1	294.5	185.9	214.4	231.6	357.4
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°
6073.1	0°	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1	6073.1
6084.5	2.5°	6096.0	6104.6	6133.1	6141.7	6161.7	6187.5	6204.6	6221.8	6221.8	6238.9
6176.0	5°	6178.9	6198.9	6259.0	6290.4	6341.9	6393.3	6424.8	6462.0	6484.8	6496.3
6321.9	7.5°	6339.0	6370.5	6456.2	6510.6	6599.2	6670.7	6719.3	6770.8	6782.2	6813.7
6524.9	10°	6556.3	6593.5	6690.7	6793.6	6899.4	6988.1	7033.8	7071.0	7085.3	7091.0
6785.1	12.5°	6805.1	6859.4	6985.2	7111.0	7222.5	7299.7	7311.2	7302.6	7262.6	7228.3
7105.3	15°	7111.0	7159.6	7299.7	7437.0	7545.6	7559.9	7488.4	7442.7	7394.1	7385.5
7462.7	17.5°	7477.0	7502.7	7631.4	7765.8	7774.4	7725.8	7620.0	7577.1	7531.3	7499.9
7928.8	20°	7903.0	7894.5	7986.0	8043.1	7983.1	7834.4	7674.3	7602.8	7557.1	7519.9
8500.6	22.5°	8412.0	8346.2	8334.8	8320.5	8160.4	7848.7	7631.4	7539.9	7468.4	7417.0
9298.4	25°	9152.5	8900.9	8726.5	8629.3	8269.0	7771.5	7494.2	7291.2	7156.8	7068.1
10273.4	27.5°	10078.9	9655.8	9215.4	8978.1	8269.0	7614.3	7162.5	6833.7	6613.5	6522.0
11216.9	30°	10962.5	10519.3	9870.2	9398.4	8249.0	7356.9	6627.8	6170.3	5913.0	5821.5
12023.3	32.5°	11717.3	11234.1	10565.0	9858.8	8200.4	6939.5	5964.5	5458.4	5209.6	5100.9
12821.0	35°	12417.8	11903.2	11262.7	10364.9	8071.7	6327.6	5235.3	4849.3	4572.0	4397.6
13633.0	37.5°	13135.5	12523.6	11923.2	10822.4	7840.1	5612.8	4674.9	4346.1	4020.1	3785.7
14496.5	40°	13916.1	13184.1	12629.4	11094.0	7459.9	4932.3	4240.3	3940.1	3594.1	3345.4
15491.6	42.5°	14828.2	13976.1	13415.7	11234.1	6939.5	4449.0	3957.2	3662.7	3336.8	3133.8
16558.1	45°	15780.3	14848.2	14133.4	11231.2	6359.0	4223.2	3865.7	3574.1	3213.8	3002.2
17653.2	47.5°	16778.2	15760.3	14753.9	11048.2	5855.8	4254.6	3814.3	3382.5	2985.1	2779.2
18759.7	50°	17779.0	16758.2	15354.3	10705.1	5641.4	4186.0	3622.7	3113.8	2644.8	2459.0
19797.6	52.5°	18771.2	17819.0	15871.8	10216.2	5424.0	3931.5	3376.8	2764.9	2504.7	2376.1
20869.9	55°	19769.0	18868.4	16435.1	9504.2	4880.8	3634.1	2965.1	2633.4	2393.2	2276.0
21919.2	57.5°	20769.8	20080.7	16969.8	8792.3	4197.4	3268.2	2739.2	2473.3	2281.7	2181.6
22797.0	60°	21810.6	21467.4	17521.6	8137.5	3522.6	2799.2	2573.3	2344.6	2150.2	2038.7
23640.5	62.5°	22882.8	22994.3	17953.4	7294.0	2902.2	2513.3	2424.7	2190.2	2001.5	1895.7
24338.2	65°	23963.6	24466.8	18236.5	6124.6	2353.2	2241.7	2264.5	2021.5	1829.9	1738.4
24850.0	67.5°	24778.5	25527.6	18156.4	4634.9	1930.0	1984.3	2064.4	1844.2	1664.1	1592.6
24767.1	70°	24870.0	25401.8	17367.2	3173.8	1615.5	1732.7	1841.4	1669.8	1484.0	1432.5
23600.5	72.5°	23651.9	23686.2	15168.5	2073.0	1366.7	1521.1	1606.9	1492.5	1312.4	1260.9
20646.8	75°	20458.1	19588.9	11136.9	1366.7	1143.7	1306.7	1386.7	1306.7	1132.3	1143.7
15448.7	77.5°	15500.1	13873.2	6762.2	972.2	955.0	1098.0	1206.6	1149.4	1000.7	1123.7
7768.7	80°	7986.0	7505.6	3016.5	726.3	754.8	877.8	992.2	917.8	792.0	754.8
1735.6	82.5°	1829.9	2127.3	1189.5	520.4	546.1	631.9	757.7	689.1	569.0	480.4
723.4	85°	640.5	700.5	526.1	326.0	320.2	394.6	514.7	460.3	386.0	308.8
305.9	87.5°	203.0	265.9	197.3	131.5	137.2	177.3	237.3	217.3	180.1	117.2
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>
6073.1
6238.9
6502.0
6802.2
7076.7
7228.3
7385.5
7502.7
7522.8
7434.1
7102.4
6567.8
5875.8
5155.3
4454.8
3848.6
3394.0
3173.8
3036.6
2807.8
2470.4
2376.1
2264.5
2164.5
2030.1
1892.8
1735.6
1595.5
1435.4
1258.1
1103.7
989.3
689.1
474.6
326.0
122.9
0.0

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