

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: P951430

Luminaire Tested: **GALN-SB5C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33787 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

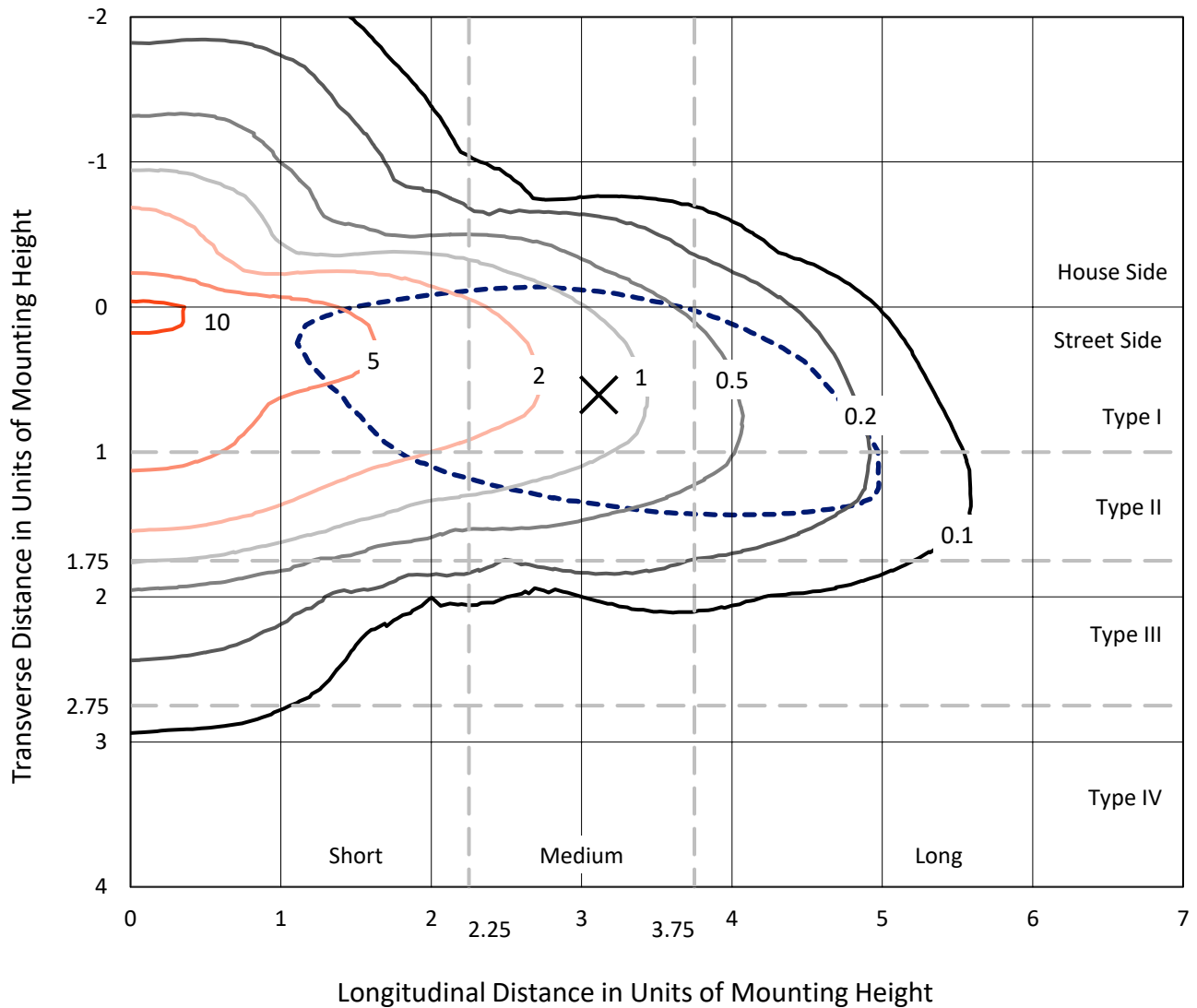
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

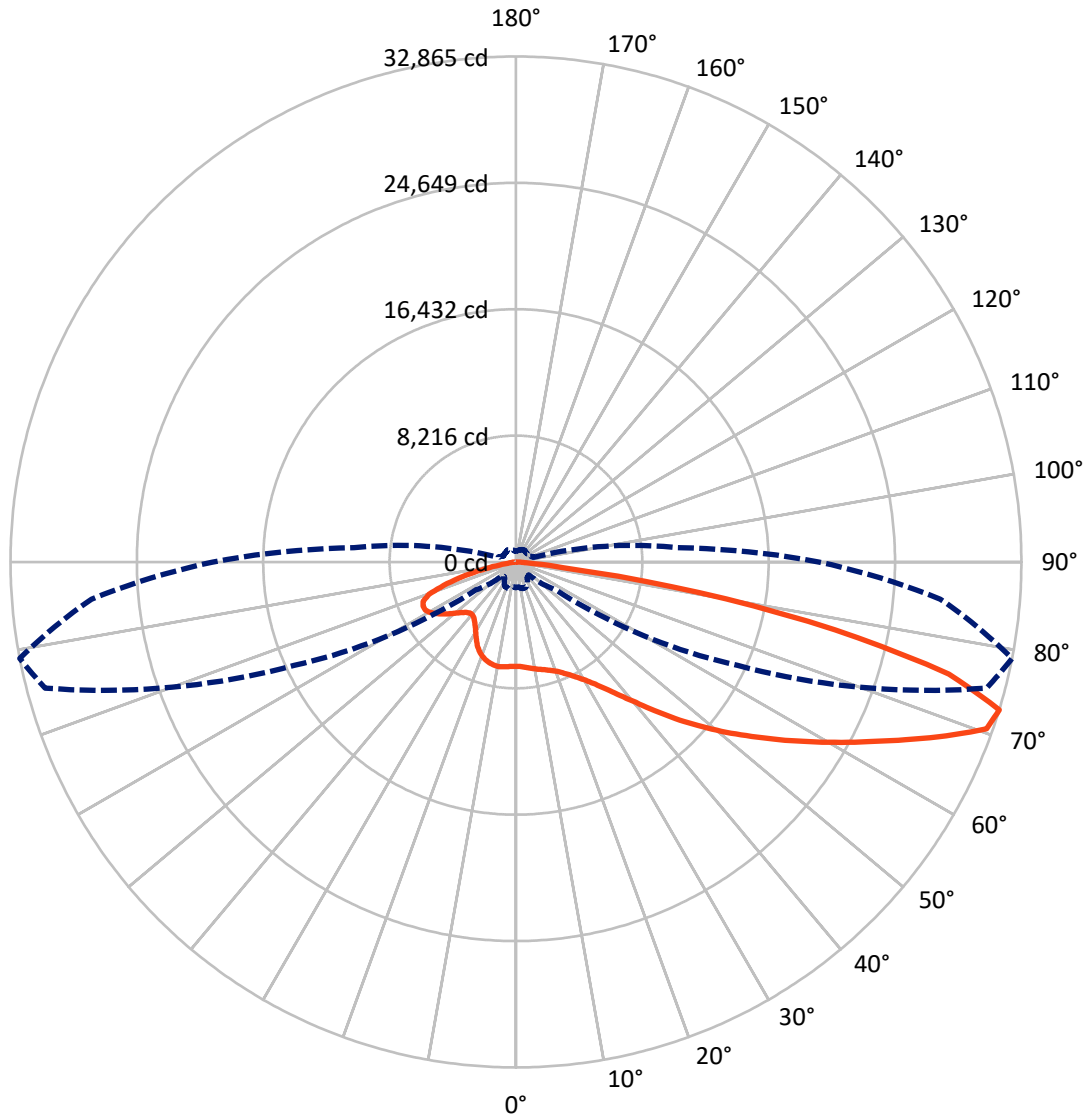
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7435.0	0.0	7435.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26352.0	0.0	26352.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	33787.0	0.0	33787.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.7	1.8
10°-20°	1609.6	4.8
20°-30°	2597.3	7.7
30°-40°	3898.1	11.5
40°-50°	5529.7	16.4
50°-60°	6983.3	20.7
60°-70°	7092.5	21.0
70°-80°	4833.8	14.3
80°-90°	627.1	1.9
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°	33787.0	100.0
0°-180°	33787.0	100.0



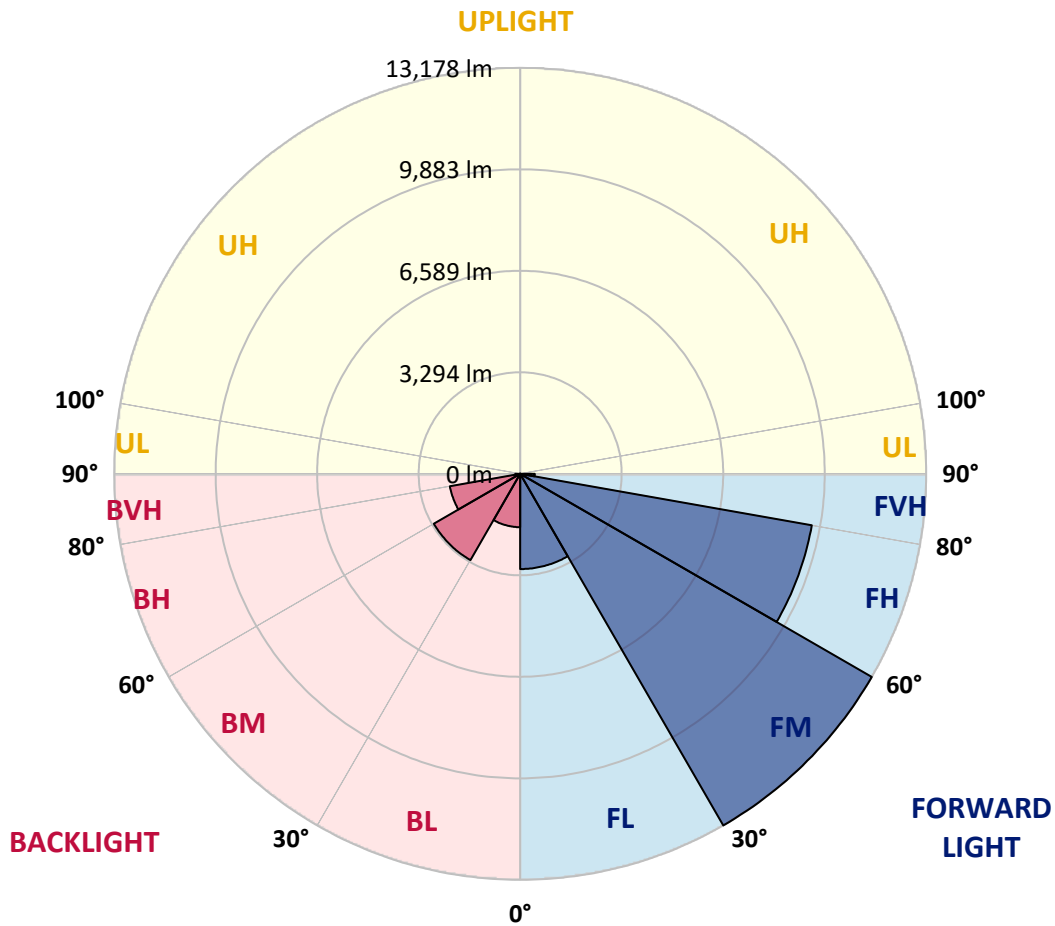
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.7	9.1			
FM (30°-60°)	13177.6	39.0			
FH (60°-80°)	9611.3	28.4			G4/12000
FVH (80°-90°)	472.4	1.4			G3/500
BL (0°-30°)	1731.8	5.1	B3/2500		
BM (30°-60°)	3233.4	9.6	B3/5000		
BH (60°-80°)	2315.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	154.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4
2.5°	6786.0	6753.8	6773.5	6766.3	6775.3	6786.0	6789.6	6794.9	6812.8	6811.0
5°	6771.7	6739.5	6766.3	6757.4	6780.6	6805.7	6827.1	6846.8	6875.4	6887.9
7.5°	6741.3	6719.9	6746.7	6773.5	6816.4	6853.9	6884.3	6929.0	6970.1	6977.2
10°	6564.4	6548.3	6610.8	6680.5	6798.5	6900.4	6966.5	7018.3	7063.0	7070.2
12.5°	6380.3	6360.6	6430.3	6525.1	6716.3	6900.4	7039.8	7107.7	7147.0	7170.2
15°	6349.9	6333.8	6373.2	6455.4	6614.4	6852.1	7089.8	7214.9	7248.9	7275.7
17.5°	6496.5	6466.1	6482.2	6510.8	6603.7	6807.4	7129.1	7336.5	7388.3	7416.9
20°	6836.0	6793.1	6768.1	6710.9	6694.8	6814.6	7125.6	7483.0	7550.9	7586.7
22.5°	7288.2	7259.6	7206.0	7061.2	6903.9	6902.2	7193.5	7670.7	7797.5	7831.5
25°	7835.1	7792.2	7724.3	7527.7	7225.6	7075.5	7307.9	7910.1	8122.8	8131.8
27.5°	8464.2	8399.8	8306.9	8047.8	7640.3	7347.2	7483.0	8185.4	8496.3	8492.8
30°	9127.2	9062.9	8964.6	8650.0	8137.1	7713.5	7726.1	8482.0	8939.6	8919.9
32.5°	9611.6	9563.3	9543.6	9300.6	8709.0	8146.1	8004.9	8810.9	9486.5	9468.6
35°	9983.3	9920.7	9944.0	9820.7	9332.8	8630.4	8346.2	9202.3	10151.3	10149.5
37.5°	10351.5	10296.1	10315.7	10233.5	9910.0	9245.2	8762.6	9681.3	10975.2	11014.5
40°	10687.4	10628.5	10707.1	10630.3	10358.6	9899.3	9236.2	10222.8	11929.6	12004.6
42.5°	10889.4	10842.9	10973.4	10975.2	10748.2	10451.5	9756.3	10819.7	13034.0	13202.0
45°	10959.1	10943.0	11139.6	11180.7	11093.1	10771.4	10224.6	11470.2	14224.3	14524.6
47.5°	10884.0	10853.7	11125.3	11277.2	11346.9	10921.6	10612.4	12174.4	15439.6	15879.3
50°	10505.2	10446.2	10850.1	11170.0	11418.4	11019.9	11003.8	12987.6	16821.1	17301.9
52.5°	9824.2	9779.6	10238.9	10794.7	11261.1	11068.1	11443.4	13875.8	18132.9	18754.9
55°	8953.9	8894.9	9400.7	10126.3	10869.7	11052.0	11883.1	14869.5	19680.6	20311.5
57.5°	7574.1	7456.2	8096.0	8953.9	10231.7	11032.4	12340.6	15857.8	21253.4	22009.4
60°	5561.8	5386.6	6171.2	7188.1	8984.2	10841.1	12907.1	16965.9	23140.6	23821.6
62.5°	3238.4	3136.5	3649.5	4598.5	6771.7	9715.2	13225.3	18254.4	24995.8	25710.6
65°	2514.6	2486.0	2530.7	2603.9	3769.2	7273.9	12244.1	19510.8	27354.9	27855.3
67.5°	2300.1	2278.7	2298.3	2160.7	1912.3	4051.6	9686.6	19829.0	29882.0	30185.8
70°	2044.6	2019.5	2083.9	1965.9	1504.8	1842.6	6258.8	18674.4	31892.6	32462.7
72.5°	1665.7	1637.1	1787.2	1733.6	1267.1	1183.1	3143.7	15931.1	31681.7	32864.8
75°	1279.6	1263.5	1442.3	1486.9	1033.0	931.1	1508.4	11842.0	27880.3	29072.4
77.5°	993.7	981.2	1072.3	1235.0	832.8	722.0	927.6	7511.6	21010.3	21219.4
80°	745.3	709.5	793.5	956.2	648.8	527.2	629.1	4380.4	13280.7	12038.6
82.5°	466.5	448.6	518.3	638.0	457.5	362.8	409.3	2419.9	5322.3	3134.7
85°	266.3	259.1	282.4	364.6	248.4	209.1	234.1	1068.7	972.2	668.4
87.5°	107.2	103.7	128.7	162.6	91.1	76.8	82.2	257.4	214.5	198.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951430
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6782.4	0°	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4	6782.4
6809.2	2.5°	6802.1	6802.1	6777.1	6737.7	6693.1	6664.5	6618.0	6605.5	6557.2	6542.9
6870.0	5°	6884.3	6870.0	6793.1	6682.3	6530.4	6391.0	6237.3	6140.8	6005.0	5956.7
6989.7	7.5°	6987.9	6948.6	6816.4	6573.3	6255.2	5942.4	5617.2	5370.5	5134.6	5050.6
7088.0	10°	7082.7	7027.3	6802.1	6376.7	5826.3	5284.7	4766.5	4403.7	4128.4	4015.8
7197.0	12.5°	7177.4	7075.5	6707.4	6049.7	5216.8	4482.3	3930.0	3647.7	3477.9	3342.1
7286.4	15°	7266.7	7123.8	6560.8	5611.8	4548.4	3803.2	3395.7	3170.5	3034.7	2945.3
7416.9	17.5°	7370.4	7164.9	6341.0	5056.0	3912.2	3333.1	3000.7	2864.9	2838.1	2827.3
7595.6	20°	7515.2	7202.4	6051.5	4434.0	3443.9	2957.8	2786.2	2773.7	2771.9	2766.6
7810.1	22.5°	7670.7	7247.1	5669.0	3869.3	3045.4	2723.7	2693.3	2668.3	2652.2	2650.4
8069.2	25°	7854.7	7261.4	5190.0	3406.4	2705.8	2612.9	2577.1	2539.6	2528.9	2528.9
8364.1	27.5°	8033.5	7213.1	4632.4	3004.3	2514.6	2511.0	2464.5	2452.0	2450.2	2455.6
8700.1	30°	8212.2	7122.0	4078.4	2632.5	2403.8	2403.8	2387.7	2396.6	2403.8	2421.7
9161.2	32.5°	8453.4	7025.5	3615.5	2357.3	2307.3	2289.4	2305.5	2323.4	2330.5	2353.7
9767.0	35°	8807.3	6957.6	3247.3	2207.2	2207.2	2184.0	2192.9	2189.3	2173.2	2162.5
10499.8	37.5°	9275.6	6954.0	2943.5	2137.5	2123.2	2119.6	2121.4	2098.2	2035.6	1960.6
11386.2	40°	9838.5	7050.5	2709.4	2089.2	2078.5	2100.0	2089.2	2026.7	1855.1	1724.6
12476.4	42.5°	10594.5	7325.7	2559.3	2030.3	2062.4	2089.2	2046.3	1830.1	1713.9	1626.4
13718.5	45°	11484.5	7772.5	2482.4	1967.7	2032.0	2064.2	1856.9	1762.2	1669.2	1563.8
15073.2	47.5°	12492.5	8335.5	2464.5	1908.7	1964.1	1983.8	1776.5	1733.6	1628.1	1513.8
16435.1	50°	13589.9	9002.1	2512.8	1839.0	1865.8	1797.9	1749.7	1710.3	1601.3	1488.7
17830.9	52.5°	14724.7	9736.7	2609.3	1744.3	1767.5	1692.5	1738.9	1705.0	1585.2	1433.3
19273.2	55°	15839.9	10476.6	2702.2	1633.5	1667.5	1597.8	1708.6	1683.5	1512.0	1340.4
20811.9	57.5°	16973.0	11212.9	2793.4	1535.2	1570.9	1506.6	1660.3	1626.4	1429.8	1254.6
22491.9	60°	18150.8	11927.8	2836.3	1440.5	1465.5	1422.6	1587.0	1528.1	1336.8	1167.0
24143.3	62.5°	19253.5	12522.9	2766.6	1345.8	1361.8	1344.0	1490.5	1411.9	1243.9	1068.7
25864.3	65°	20359.8	12876.8	2552.1	1252.8	1256.4	1247.5	1354.7	1286.8	1134.9	983.0
27370.9	67.5°	21362.4	13075.1	2210.8	1152.7	1143.8	1140.2	1227.8	1151.0	1029.4	897.2
28516.5	70°	21575.1	12571.2	1688.9	1034.8	1034.8	1025.9	1088.4	1009.8	913.3	806.0
27696.2	72.5°	19705.7	10574.9	1199.2	900.7	915.0	897.2	949.0	882.9	795.3	723.8
23869.8	75°	15890.0	7754.7	872.2	763.1	788.2	757.8	806.0	759.6	684.5	682.7
16449.4	77.5°	10918.0	4795.1	632.7	629.1	647.0	607.6	663.1	638.0	570.1	539.7
7159.5	80°	4659.2	1912.3	461.1	486.1	486.1	450.4	514.7	521.9	462.9	448.6
1381.5	82.5°	927.6	543.3	323.5	334.2	314.5	303.8	364.6	403.9	557.6	620.2
416.4	85°	278.8	200.2	194.8	182.3	160.8	162.6	214.5	405.7	500.4	286.0
137.6	87.5°	76.8	50.0	51.8	41.1	34.0	44.7	73.3	307.4	168.0	71.5
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>
6782.4
6566.2
5992.5
5061.3
4040.9
3386.7
2961.4
2834.5
2784.5
2670.1
2539.6
2469.9
2434.2
2373.4
2187.5
1962.3
1721.1
1622.8
1556.7
1504.8
1476.2
1422.6
1331.5
1251.0
1161.7
1067.0
972.2
886.5
802.5
702.4
614.8
505.8
448.6
621.9
246.6
60.8
0.0

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