

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: P950716

Luminaire Tested: **GALN-SB5A-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950716
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-SB5A-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20237 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

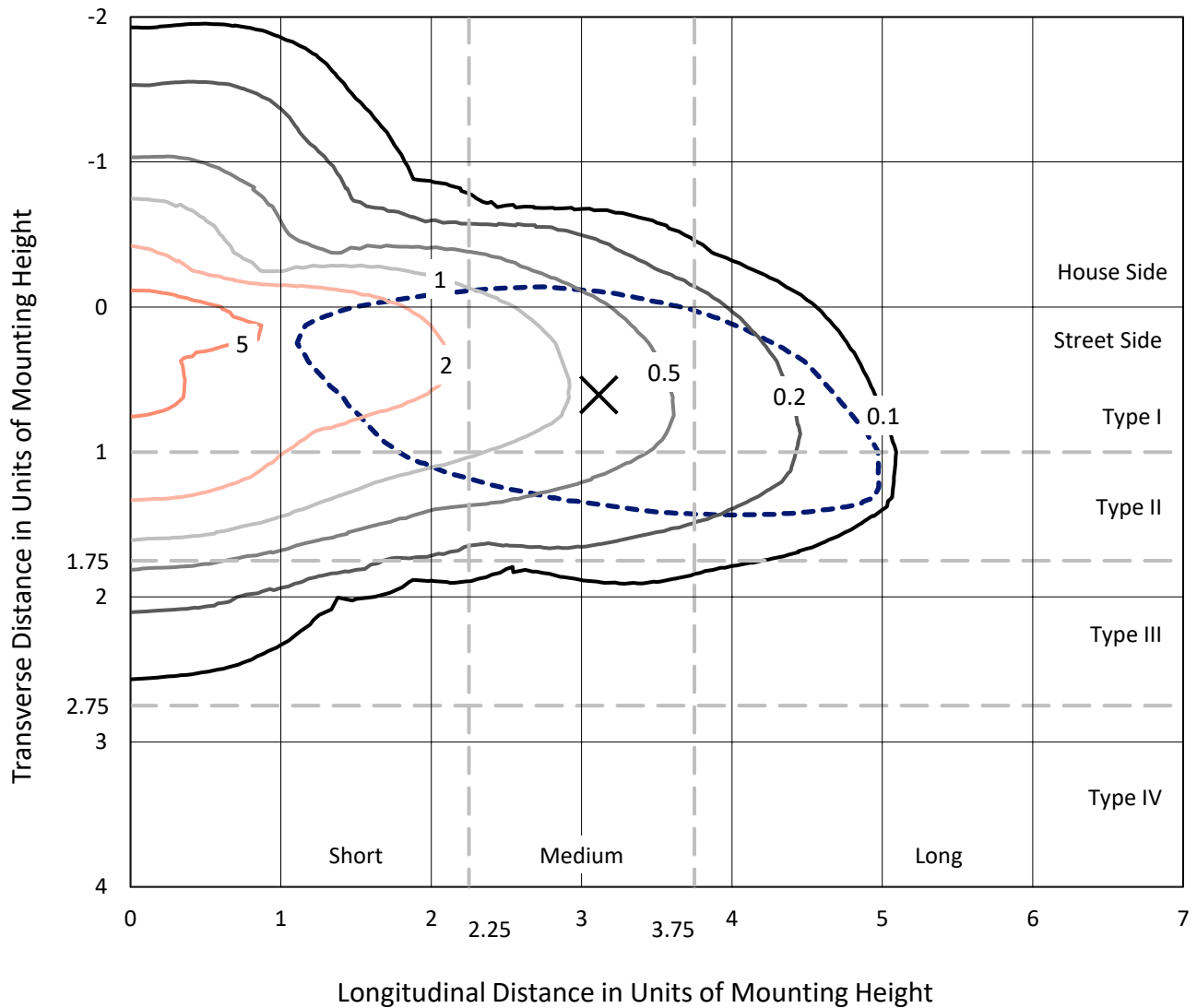
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

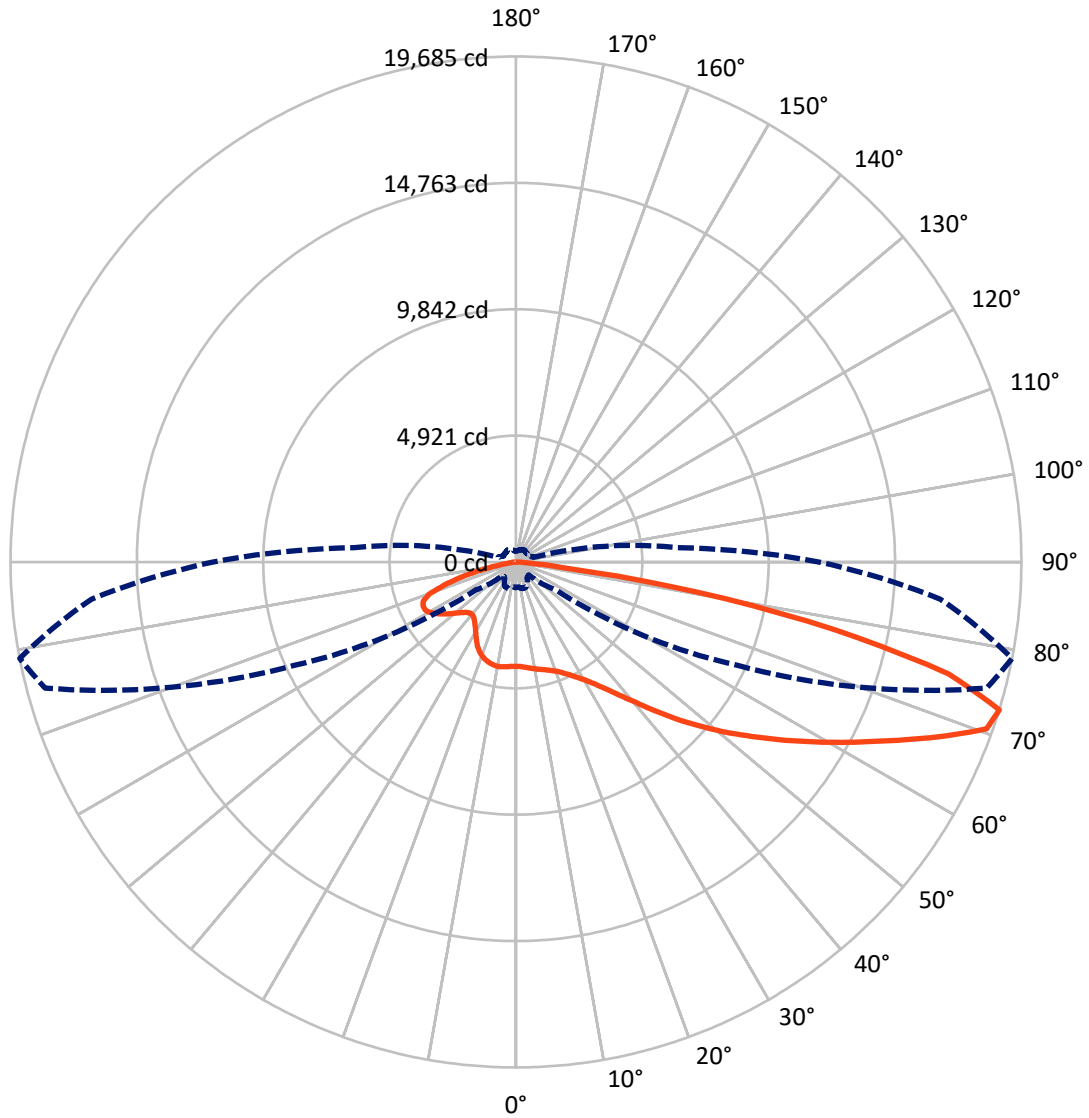
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB5A-830-U-SL2

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	4453.3	0.0	4453.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15783.7	0.0	15783.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	20237.0	0.0	20237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	1.8
10°-20°	964.1	4.8
20°-30°	1555.6	7.7
30°-40°	2334.8	11.5
40°-50°	3312.1	16.4
50°-60°	4182.7	20.7
60°-70°	4248.1	21.0
70°-80°	2895.3	14.3
80°-90°	375.6	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°	20237.0	100.0
0°-180°	20237.0	100.0



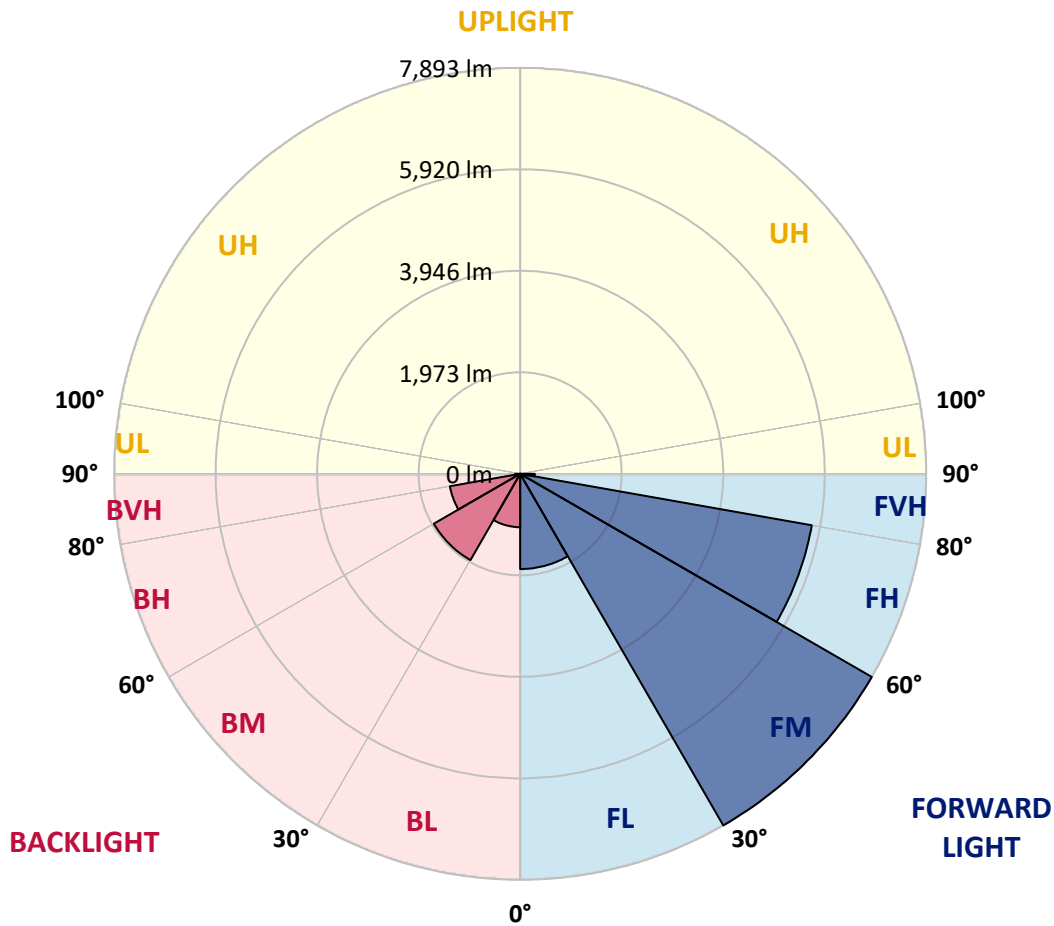
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.2	9.1			
FM (30°-60°)	7892.8	39.0			
FH (60°-80°)	5756.7	28.4			G3/7500
FVH (80°-90°)	283.0	1.4			G3/500
BL (0°-30°)	1037.3	5.1	B3/2500		
BM (30°-60°)	1936.7	9.6	B2/2500		
BH (60°-80°)	1386.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	92.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4
2.5°	4064.5	4045.3	4057.0	4052.8	4058.1	4064.5	4066.7	4069.9	4080.6	4079.5
5°	4056.0	4036.7	4052.8	4047.4	4061.3	4076.3	4089.1	4100.9	4118.0	4125.5
7.5°	4037.8	4024.9	4041.0	4057.0	4082.7	4105.2	4123.4	4150.2	4174.8	4179.1
10°	3931.8	3922.2	3959.6	4001.4	4072.0	4133.0	4172.6	4203.7	4230.4	4234.7
12.5°	3821.5	3809.8	3851.5	3908.2	4022.8	4133.0	4216.5	4257.2	4280.8	4294.7
15°	3803.3	3793.7	3817.3	3866.5	3961.8	4104.1	4246.5	4321.4	4341.8	4357.8
17.5°	3891.1	3872.9	3882.5	3899.7	3955.3	4077.4	4270.1	4394.2	4425.3	4442.4
20°	4094.5	4068.8	4053.8	4019.6	4009.9	4081.7	4267.9	4482.0	4522.7	4544.1
22.5°	4365.3	4348.2	4316.1	4229.4	4135.2	4134.1	4308.6	4594.4	4670.4	4690.7
25°	4692.9	4667.2	4626.5	4508.8	4327.9	4237.9	4377.1	4737.8	4865.2	4870.6
27.5°	5069.7	5031.1	4975.5	4820.3	4576.2	4400.6	4482.0	4902.7	5089.0	5086.8
30°	5466.8	5428.3	5369.4	5181.0	4873.8	4620.1	4627.6	5080.4	5354.4	5342.7
32.5°	5756.9	5728.0	5716.2	5570.7	5216.3	4879.1	4794.6	5277.4	5682.0	5671.3
35°	5979.6	5942.1	5956.0	5882.2	5589.9	5169.2	4999.0	5511.8	6080.2	6079.1
37.5°	6200.1	6166.9	6178.7	6129.4	5935.7	5537.5	5248.5	5798.7	6573.7	6597.2
40°	6401.3	6366.0	6413.1	6367.1	6204.4	5929.3	5532.1	6123.0	7145.3	7190.3
42.5°	6522.3	6494.5	6572.6	6573.7	6437.7	6260.0	5843.6	6480.5	7806.8	7907.5
45°	6564.0	6554.4	6672.2	6696.8	6644.3	6451.6	6124.1	6870.2	8519.8	8699.6
47.5°	6519.1	6500.9	6663.6	6754.6	6796.3	6541.6	6356.4	7292.0	9247.7	9511.0
50°	6292.1	6256.8	6498.7	6690.4	6839.2	6600.4	6590.8	7779.0	10075.1	10363.1
52.5°	5884.3	5857.5	6132.6	6465.6	6745.0	6629.3	6854.1	8311.0	10860.9	11233.4
55°	5363.0	5327.7	5630.6	6065.2	6510.5	6619.7	7117.5	8906.2	11787.9	12165.7
57.5°	4536.6	4465.9	4849.2	5363.0	6128.4	6607.9	7391.5	9498.2	12729.9	13182.7
60°	3331.3	3226.4	3696.3	4305.4	5381.2	6493.4	7730.8	10161.9	13860.3	14268.1
62.5°	1939.7	1878.7	2185.9	2754.3	4056.0	5819.0	7921.4	10933.7	14971.4	15399.6
65°	1506.1	1489.0	1515.8	1559.7	2257.6	4356.8	7333.7	11686.2	16384.4	16684.1
67.5°	1377.7	1364.8	1376.6	1294.2	1145.4	2426.7	5801.9	11876.7	17898.0	18080.0
70°	1224.6	1209.6	1248.2	1177.5	901.3	1103.6	3748.7	11185.2	19102.3	19443.8
72.5°	997.7	980.5	1070.5	1038.3	759.0	708.6	1882.9	9542.1	18976.0	19684.6
75°	766.4	756.8	863.9	890.6	618.7	557.7	903.5	7092.8	16699.1	17413.1
77.5°	595.2	587.7	642.3	739.7	498.8	432.5	555.6	4499.1	12584.3	12709.5
80°	446.4	425.0	475.3	572.7	388.6	315.8	376.8	2623.7	7954.6	7210.6
82.5°	279.4	268.7	310.4	382.2	274.0	217.3	245.1	1449.4	3187.8	1877.6
85°	159.5	155.2	169.1	218.4	148.8	125.2	140.2	640.1	582.3	400.4
87.5°	64.2	62.1	77.1	97.4	54.6	46.0	49.2	154.1	128.5	118.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950716
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4062.4	0°	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4
4078.4	2.5°	4074.2	4074.2	4059.2	4035.6	4008.9	3991.7	3963.9	3956.4	3927.5	3918.9
4114.8	5°	4123.4	4114.8	4068.8	4002.4	3911.5	3828.0	3735.9	3678.1	3596.7	3567.8
4186.6	7.5°	4185.5	4161.9	4082.7	3937.1	3746.6	3559.3	3364.4	3216.7	3075.4	3025.1
4245.4	10°	4242.2	4209.0	4074.2	3819.4	3489.7	3165.3	2854.9	2637.6	2472.8	2405.3
4310.7	12.5°	4299.0	4237.9	4017.4	3623.5	3124.7	2684.7	2353.9	2184.8	2083.1	2001.8
4364.3	15°	4352.5	4266.8	3929.6	3361.2	2724.3	2277.9	2033.9	1899.0	1817.6	1764.1
4442.4	17.5°	4414.6	4291.5	3798.0	3028.3	2343.2	1996.4	1797.3	1715.9	1699.9	1693.5
4549.4	20°	4501.3	4313.9	3624.6	2655.8	2062.8	1771.6	1668.8	1661.3	1660.3	1657.1
4677.9	22.5°	4594.4	4340.7	3395.5	2317.5	1824.1	1631.4	1613.2	1598.2	1588.6	1587.5
4833.1	25°	4704.7	4349.3	3108.6	2040.3	1620.7	1565.0	1543.6	1521.1	1514.7	1514.7
5009.7	27.5°	4811.7	4320.4	2774.6	1799.4	1506.1	1504.0	1476.2	1468.7	1467.6	1470.8
5211.0	30°	4918.8	4265.8	2442.8	1576.8	1439.8	1439.8	1430.1	1435.5	1439.8	1450.5
5487.2	32.5°	5063.3	4208.0	2165.5	1411.9	1382.0	1371.3	1380.9	1391.6	1395.9	1409.8
5850.0	35°	5275.2	4167.3	1945.0	1322.0	1322.0	1308.1	1313.5	1311.3	1301.7	1295.3
6288.9	37.5°	5555.7	4165.1	1763.0	1280.3	1271.7	1269.6	1270.6	1256.7	1219.3	1174.3
6819.9	40°	5892.9	4223.0	1622.8	1251.4	1244.9	1257.8	1251.4	1213.9	1111.1	1033.0
7472.9	42.5°	6345.7	4387.8	1532.9	1216.0	1235.3	1251.4	1225.7	1096.1	1026.6	974.1
8216.8	45°	6878.8	4655.4	1486.9	1178.6	1217.1	1236.4	1112.2	1055.5	999.8	936.7
9028.2	47.5°	7482.5	4992.6	1476.2	1143.2	1176.4	1188.2	1064.0	1038.3	975.2	906.7
9843.9	50°	8139.8	5391.9	1505.1	1101.5	1117.6	1076.9	1048.0	1024.4	959.1	891.7
10680.0	52.5°	8819.5	5831.9	1562.9	1044.8	1058.7	1013.7	1041.6	1021.2	949.5	858.5
11543.8	55°	9487.5	6275.0	1618.5	978.4	998.7	957.0	1023.4	1008.4	905.6	802.8
12465.5	57.5°	10166.1	6716.0	1673.1	919.5	940.9	902.4	994.5	974.1	856.4	751.5
13471.7	60°	10871.6	7144.2	1698.8	862.8	877.8	852.1	950.6	915.2	800.7	699.0
14460.8	62.5°	11532.0	7500.7	1657.1	806.1	815.7	805.0	892.8	845.7	745.0	640.1
15491.7	65°	12194.6	7712.6	1528.6	750.4	752.5	747.2	811.4	770.7	679.7	588.8
16394.1	67.5°	12795.2	7831.5	1324.2	690.4	685.1	683.0	735.4	689.4	616.6	537.4
17080.2	70°	12922.6	7529.6	1011.6	619.8	619.8	614.4	651.9	604.8	547.0	482.8
16588.9	72.5°	11802.9	6333.9	718.3	539.5	548.1	537.4	568.4	528.8	476.4	433.5
14297.0	75°	9517.4	4644.7	522.4	457.1	472.1	453.9	482.8	454.9	410.0	408.9
9852.5	77.5°	6539.4	2872.0	378.9	376.8	387.5	364.0	397.1	382.2	341.5	323.3
4288.3	80°	2790.7	1145.4	276.2	291.2	291.2	269.8	308.3	312.6	277.2	268.7
827.5	82.5°	555.6	325.4	193.8	200.2	188.4	182.0	218.4	241.9	334.0	371.4
249.4	85°	167.0	119.9	116.7	109.2	96.3	97.4	128.5	243.0	299.7	171.3
82.4	87.5°	46.0	30.0	31.0	24.6	20.3	26.8	43.9	184.1	100.6	42.8
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>
4062.4
3932.9
3589.2
3031.5
2420.3
2028.5
1773.7
1697.7
1667.8
1599.3
1521.1
1479.4
1458.0
1421.6
1310.2
1175.4
1030.9
972.0
932.4
901.3
884.2
852.1
797.5
749.3
695.8
639.1
582.3
530.9
480.6
420.7
368.2
302.9
268.7
372.5
147.7
36.4
0.0

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