

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: P951220

Luminaire Tested: **GALN-SB5B-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951220
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-SB5B-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20487 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

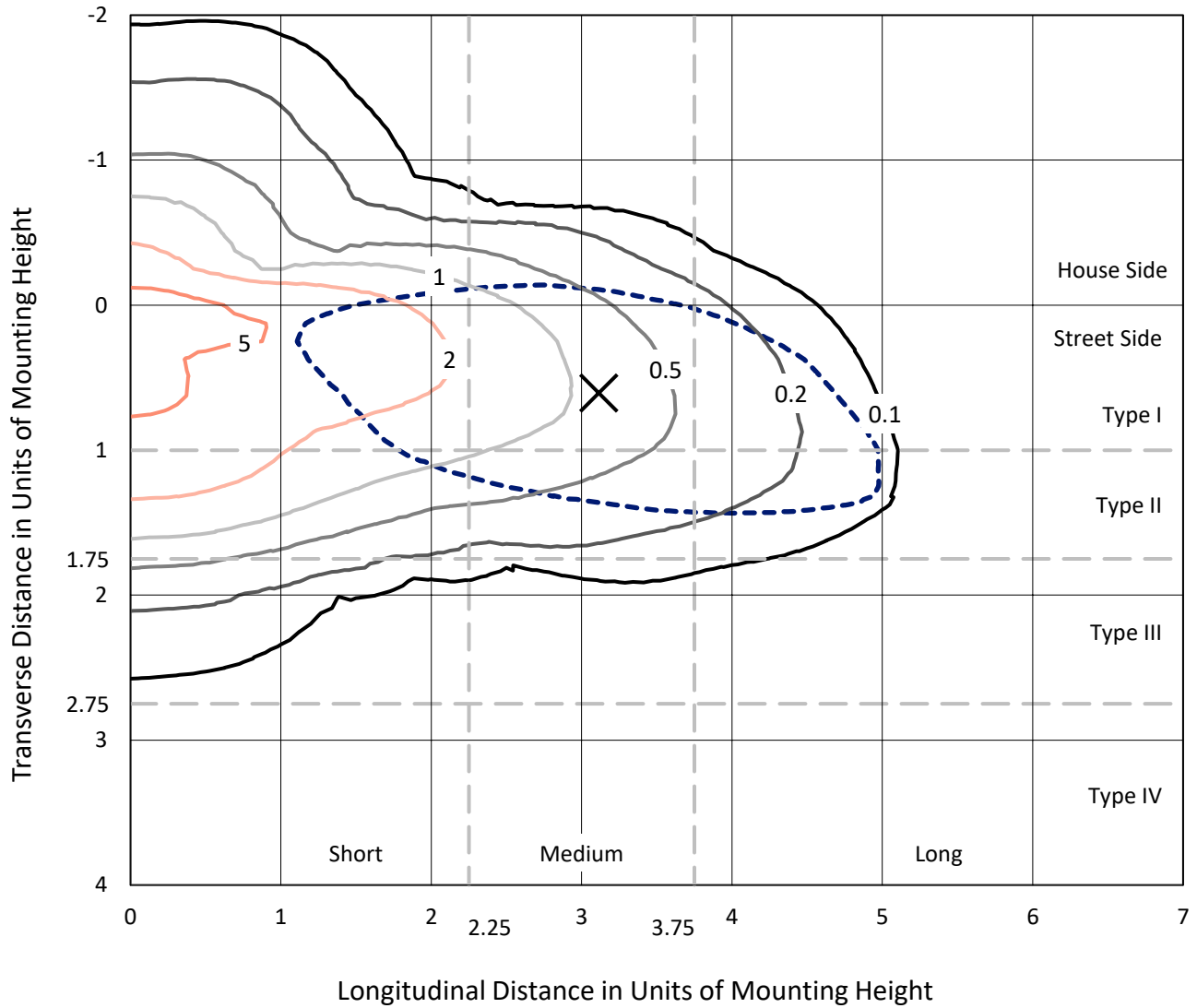
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

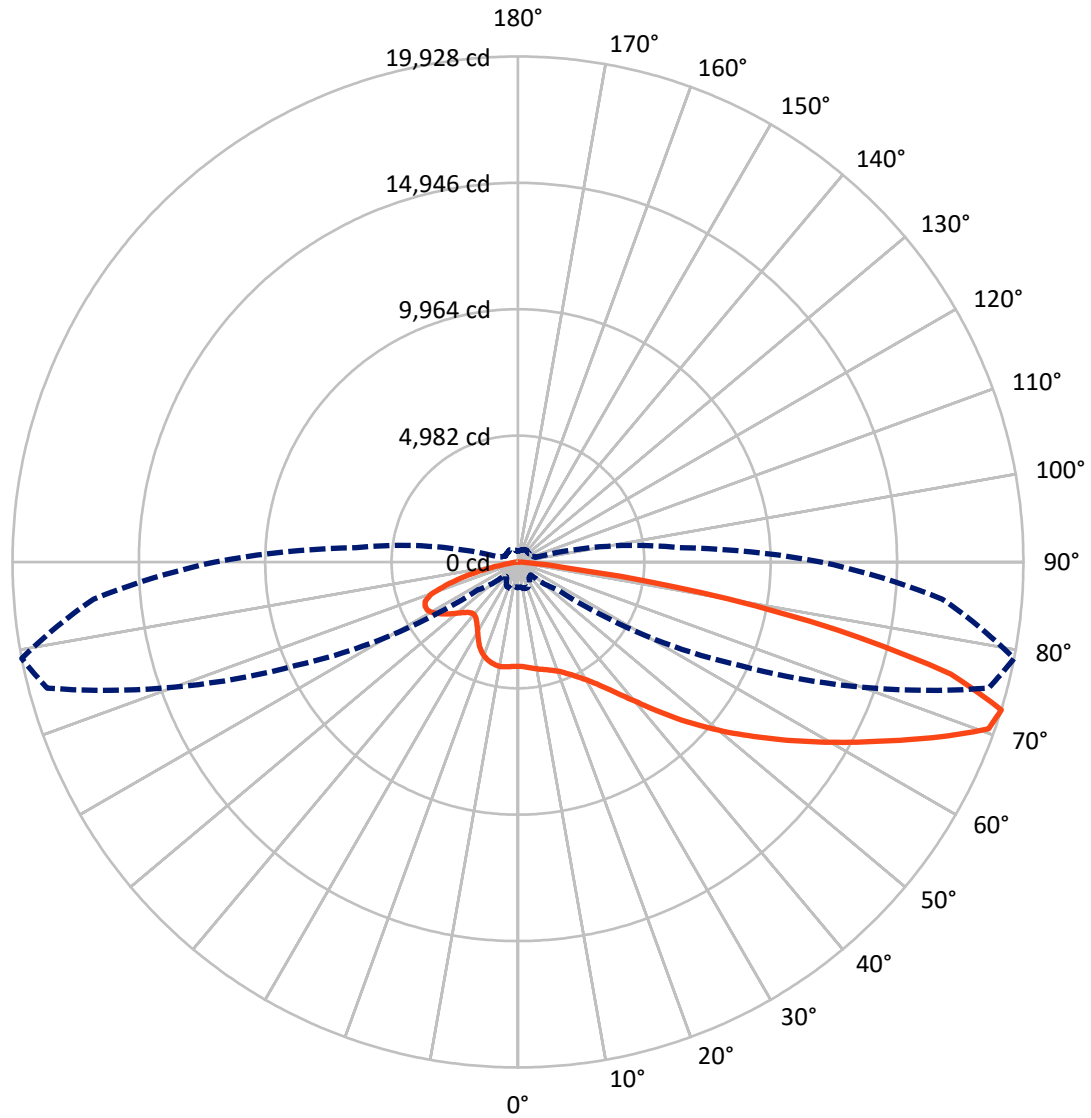
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4508.3	0.0	4508.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15978.7	0.0	15978.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	20487.0	0.0	20487.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	1.8
10°-20°	976.0	4.8
20°-30°	1574.9	7.7
30°-40°	2363.6	11.5
40°-50°	3353.0	16.4
50°-60°	4234.3	20.7
60°-70°	4300.6	21.0
70°-80°	2931.0	14.3
80°-90°	380.3	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°	20487.0	100.0
0°-180°	20487.0	100.0



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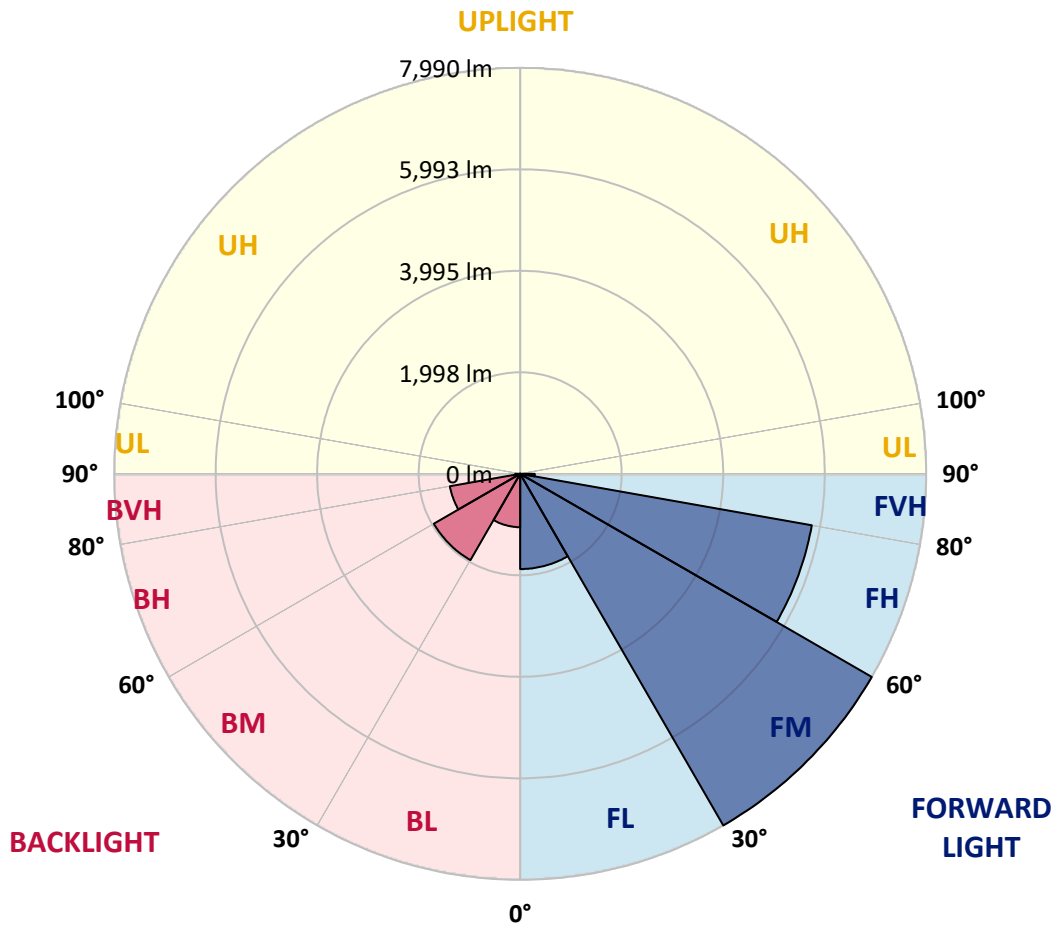
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.1	9.1			
FM (30°-60°)	7990.3	39.0			
FH (60°-80°)	5827.9	28.4			G3/7500
FVH (80°-90°)	286.5	1.4			G3/500
BL (0°-30°)	1050.1	5.1	B3/2500		
BM (30°-60°)	1960.6	9.6	B2/2500		
BH (60°-80°)	1403.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	93.8	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°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
2.5°	4114.7	4095.2	4107.2	4102.8	4108.2	4114.7	4116.9	4120.2	4131.0	4129.9
5°	4106.1	4086.6	4102.8	4097.4	4111.5	4126.7	4139.7	4151.6	4168.9	4176.5
7.5°	4087.6	4074.6	4090.9	4107.2	4133.2	4155.9	4174.3	4201.4	4226.4	4230.7
10°	3980.4	3970.6	4008.5	4050.8	4122.3	4184.1	4224.2	4255.6	4282.7	4287.0
12.5°	3868.7	3856.8	3899.1	3956.5	4072.5	4184.1	4268.6	4309.8	4333.6	4347.7
15°	3850.3	3840.6	3864.4	3914.3	4010.7	4154.8	4299.0	4374.8	4395.4	4411.7
17.5°	3939.2	3920.8	3930.5	3947.9	4004.2	4127.7	4322.8	4448.5	4479.9	4497.3
20°	4145.1	4119.1	4103.9	4069.2	4059.5	4132.1	4320.6	4537.4	4578.6	4600.2
22.5°	4419.3	4401.9	4369.4	4281.6	4186.3	4185.2	4361.8	4651.2	4728.1	4748.7
25°	4750.9	4724.9	4683.7	4564.5	4381.3	4290.3	4431.2	4796.4	4925.3	4930.7
27.5°	5132.3	5093.3	5037.0	4879.8	4632.7	4455.0	4537.4	4963.3	5151.8	5149.7
30°	5534.4	5495.3	5435.7	5245.0	4934.0	4677.2	4684.8	5143.2	5420.6	5408.7
32.5°	5828.0	5798.8	5786.9	5639.5	5280.8	4939.4	4853.8	5342.5	5752.2	5741.3
35°	6053.4	6015.5	6029.6	5954.8	5659.0	5233.1	5060.8	5579.9	6155.3	6154.2
37.5°	6276.7	6243.1	6255.0	6205.2	6009.0	5605.9	5313.3	5870.3	6654.9	6678.7
40°	6480.4	6444.7	6492.3	6445.7	6281.0	6002.5	5600.5	6198.7	7233.6	7279.1
42.5°	6602.9	6574.7	6653.8	6654.9	6517.3	6337.4	5915.8	6560.6	7903.3	8005.2
45°	6645.1	6635.4	6754.6	6779.5	6726.4	6531.3	6199.7	6955.1	8625.0	8807.1
47.5°	6599.6	6581.2	6745.9	6838.0	6880.3	6622.4	6434.9	7382.0	9361.9	9628.5
50°	6369.9	6334.1	6579.0	6773.0	6923.6	6682.0	6672.2	7875.1	10199.6	10491.1
52.5°	5957.0	5929.9	6208.4	6545.4	6828.3	6711.2	6938.8	8413.7	10995.0	11372.2
55°	5429.2	5393.5	5700.2	6140.1	6590.9	6701.5	7205.4	9016.2	11933.5	12316.0
57.5°	4592.6	4521.1	4909.1	5429.2	6204.1	6689.6	7482.8	9615.5	12887.1	13345.5
60°	3372.4	3266.2	3742.0	4358.6	5447.7	6573.6	7826.3	10287.4	14031.5	14444.4
62.5°	1963.6	1901.9	2212.9	2788.3	4106.1	5890.9	8019.2	11068.7	15156.4	15589.8
65°	1524.7	1507.4	1534.5	1578.9	2285.5	4410.6	7424.3	11830.5	16586.8	16890.3
67.5°	1394.7	1381.7	1393.6	1310.2	1159.5	2456.7	5873.6	12023.4	18119.2	18303.4
70°	1239.7	1224.6	1263.6	1192.0	912.5	1117.3	3795.1	11323.4	19338.3	19684.0
72.5°	1010.0	992.7	1083.7	1051.2	768.3	717.4	1906.2	9659.9	19210.4	19927.8
75°	775.9	766.2	874.5	901.6	626.4	564.6	914.6	7180.5	16905.4	17628.2
77.5°	602.5	594.9	650.2	748.8	505.0	437.8	562.4	4554.7	12739.8	12866.5
80°	451.9	430.2	481.2	579.8	393.4	319.7	381.5	2656.1	8052.8	7299.7
82.5°	282.8	272.0	314.3	386.9	277.4	220.0	248.2	1467.3	3227.2	1900.8
85°	161.5	157.1	171.2	221.1	150.6	126.8	142.0	648.0	589.5	405.3
87.5°	65.0	62.9	78.0	98.6	55.3	46.6	49.8	156.1	130.0	120.3
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°
4112.6	0°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
4128.8	2.5°	4124.5	4124.5	4109.3	4085.5	4058.4	4041.0	4012.9	4005.3	3976.0	3967.4
4165.7	5°	4174.3	4165.7	4119.1	4051.9	3959.8	3875.2	3782.0	3723.5	3641.2	3611.9
4238.3	7.5°	4237.2	4213.4	4133.2	3985.8	3792.9	3603.2	3406.0	3256.5	3113.4	3062.5
4297.9	10°	4294.6	4261.0	4124.5	3866.6	3532.8	3204.4	2890.2	2670.2	2503.3	2435.0
4364.0	12.5°	4352.1	4290.3	4067.1	3668.3	3163.3	2717.9	2383.0	2211.8	2108.8	2026.5
4418.2	15°	4406.2	4319.6	3978.2	3402.8	2758.0	2306.1	2059.0	1922.5	1840.1	1785.9
4497.3	17.5°	4469.1	4344.5	3844.9	3065.7	2372.2	2021.1	1819.5	1737.1	1720.9	1714.4
4605.6	20°	4556.9	4367.2	3669.3	2688.6	2088.3	1793.5	1689.5	1681.9	1680.8	1677.5
4735.7	22.5°	4651.2	4394.3	3437.4	2346.2	1846.6	1651.5	1633.1	1617.9	1608.2	1607.1
4892.8	25°	4762.8	4403.0	3147.0	2065.5	1640.7	1584.3	1562.7	1539.9	1533.4	1533.4
5071.6	27.5°	4871.1	4373.7	2808.9	1821.7	1524.7	1522.6	1494.4	1486.8	1485.7	1489.0
5275.4	30°	4979.5	4318.5	2473.0	1596.3	1457.6	1457.6	1447.8	1453.2	1457.6	1468.4
5555.0	32.5°	5125.8	4260.0	2192.3	1429.4	1399.0	1388.2	1397.9	1408.8	1413.1	1427.2
5922.3	35°	5340.4	4218.8	1969.0	1338.3	1338.3	1324.3	1329.7	1327.5	1317.8	1311.3
6366.6	37.5°	5624.3	4216.6	1784.8	1296.1	1287.4	1285.2	1286.3	1272.2	1234.3	1188.8
6904.1	40°	5965.7	4275.1	1642.9	1266.8	1260.3	1273.3	1266.8	1228.9	1124.9	1045.8
7565.2	42.5°	6424.1	4442.0	1551.8	1231.1	1250.6	1266.8	1240.8	1109.7	1039.3	986.1
8318.3	45°	6963.7	4712.9	1505.2	1193.1	1232.1	1251.7	1125.9	1068.5	1012.2	948.2
9139.8	47.5°	7574.9	5054.3	1494.4	1157.4	1191.0	1202.9	1077.2	1051.2	987.2	917.9
9965.5	50°	8240.3	5458.5	1523.7	1115.1	1131.4	1090.2	1060.9	1037.1	971.0	902.7
10811.9	52.5°	8928.5	5903.9	1582.2	1057.7	1071.8	1026.2	1054.4	1033.8	961.2	869.1
11686.4	55°	9604.7	6352.5	1638.5	990.5	1011.1	968.8	1036.0	1020.8	916.8	812.8
12619.5	57.5°	10291.7	6799.0	1693.8	930.9	952.6	913.5	1006.7	986.1	866.9	760.7
13638.1	60°	11005.9	7232.5	1719.8	873.4	888.6	862.6	962.3	926.5	810.6	707.6
14639.5	62.5°	11674.5	7593.4	1677.5	816.0	825.8	814.9	903.8	856.1	754.2	648.0
15683.0	65°	12345.3	7807.9	1547.5	759.7	761.8	756.4	821.4	780.3	688.1	596.0
16596.6	67.5°	12953.2	7928.2	1340.5	699.0	693.6	691.4	744.5	697.9	624.2	544.0
17291.2	70°	13082.2	7622.6	1024.1	627.5	627.5	622.0	660.0	612.3	553.8	488.7
16793.8	72.5°	11948.7	6412.1	727.2	546.2	554.8	544.0	575.4	535.3	482.2	438.9
14473.6	75°	9635.0	4702.1	528.8	462.7	477.9	459.5	488.7	460.6	415.0	414.0
9974.2	77.5°	6620.2	2907.5	383.6	381.5	392.3	368.5	402.0	386.9	345.7	327.3
4341.2	80°	2825.2	1159.5	279.6	294.8	294.8	273.1	312.1	316.4	280.7	272.0
837.7	82.5°	562.4	329.4	196.1	202.6	190.7	184.2	221.1	244.9	338.1	376.0
252.5	85°	169.1	121.4	118.1	110.5	97.5	98.6	130.0	246.0	303.4	173.4
83.4	87.5°	46.6	30.3	31.4	24.9	20.6	27.1	44.4	186.4	101.9	43.3
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>
4112.6
3981.4
3633.6
3069.0
2450.2
2053.6
1795.7
1718.7
1688.4
1619.0
1539.9
1497.6
1476.0
1439.1
1326.4
1189.9
1043.6
984.0
943.9
912.5
895.1
862.6
807.3
758.6
704.4
647.0
589.5
537.5
486.6
425.9
372.8
306.7
272.0
377.1
149.5
36.8
0.0

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