

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: P949101

Luminaire Tested: **GALN-SB3D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949101
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-SB3D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 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: 20758 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

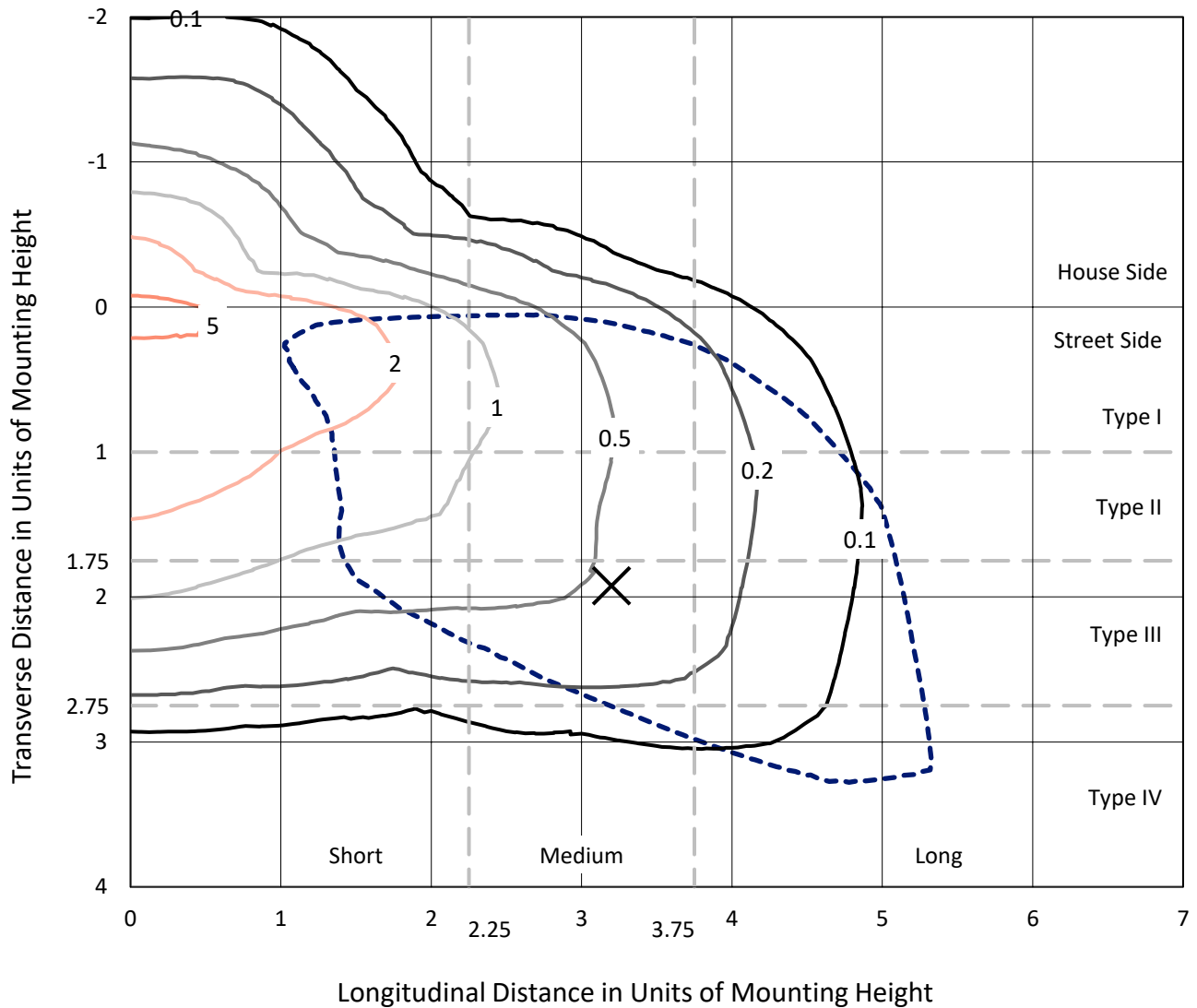
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

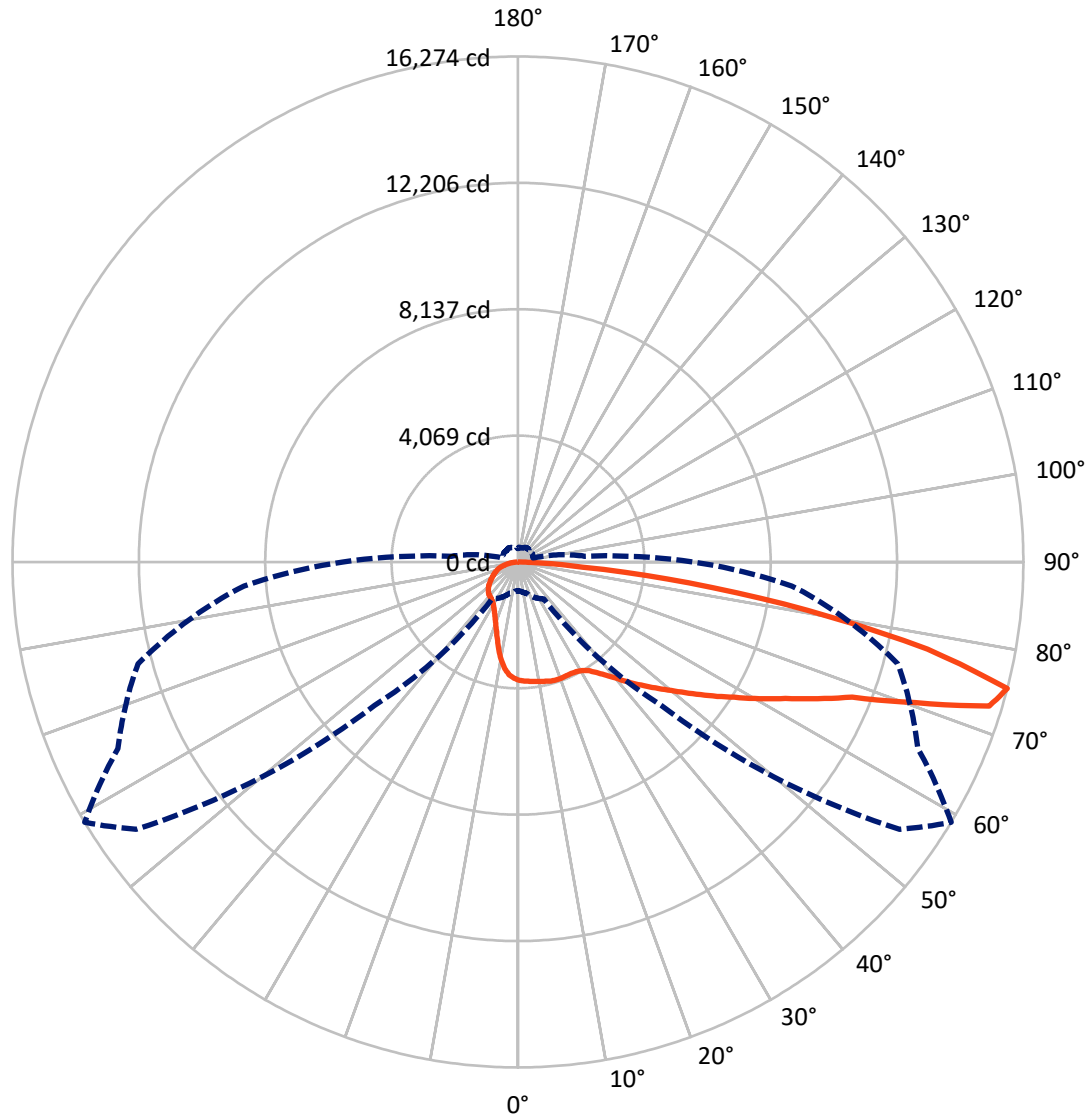
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3893.3	0.0	3893.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16864.7	0.0	16864.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20758.0	0.0	20758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	1.6
10°-20°	873.2	4.2
20°-30°	1326.4	6.4
30°-40°	1971.6	9.5
40°-50°	2932.2	14.1
50°-60°	3980.1	19.2
60°-70°	4859.0	23.4
70°-80°	3813.3	18.4
80°-90°	660.6	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°	20758.0	100.0
0°-180°	20758.0	100.0



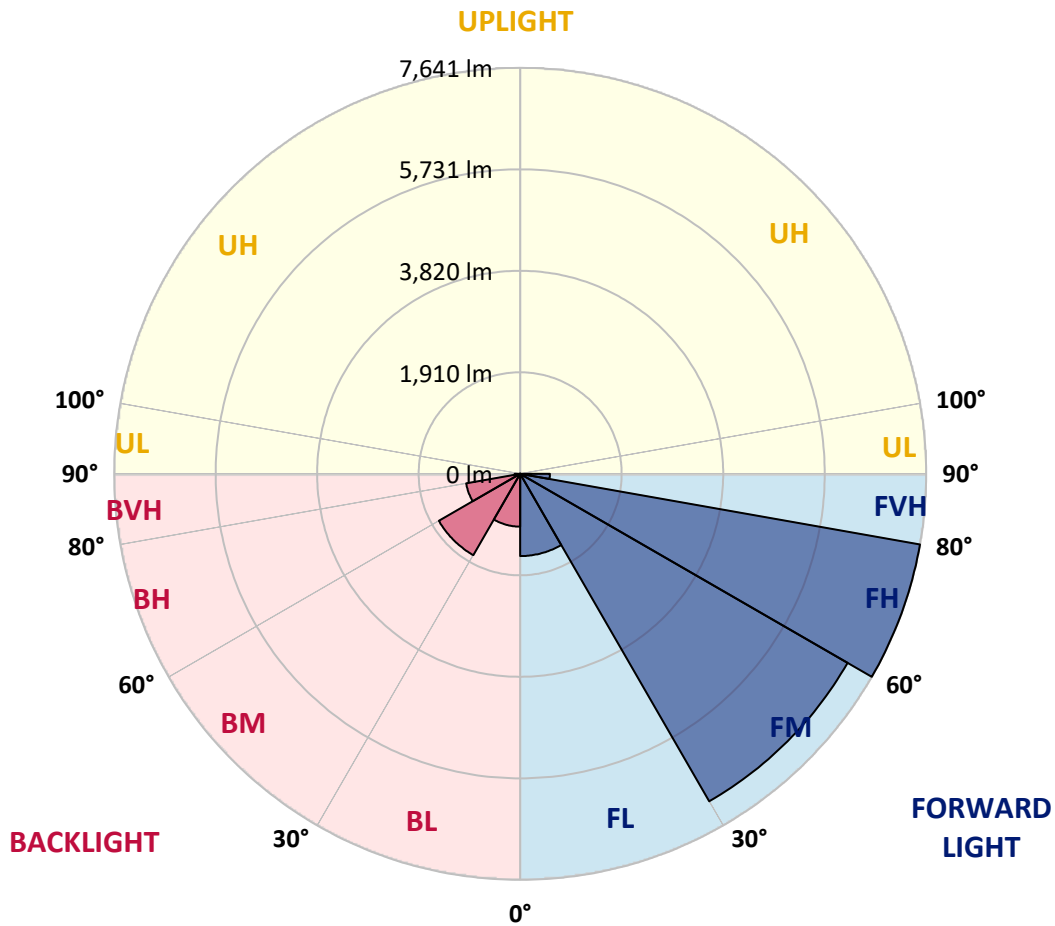
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.7	7.5			
FM (30°-60°)	7116.7	34.3			
FH (60°-80°)	7640.8	36.8			G4/12000
FVH (80°-90°)	559.4	2.7			G4/750
BL (0°-30°)	993.5	4.8	B2/1000		
BM (30°-60°)	1767.2	8.5	B2/2500		
BH (60°-80°)	1031.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	101.1	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1
2.5°	3842.5	3829.1	3842.5	3836.9	3834.7	3830.2	3831.3	3839.1	3834.7	3840.2
5°	3816.8	3809.0	3822.4	3819.0	3833.5	3835.8	3850.3	3859.2	3864.8	3865.9
7.5°	3774.4	3766.5	3785.5	3801.2	3832.4	3841.4	3871.5	3886.0	3893.8	3907.2
10°	3619.1	3615.8	3662.7	3721.9	3795.6	3841.4	3887.1	3911.7	3924.0	3959.7
12.5°	3344.4	3348.9	3410.3	3524.2	3671.6	3819.0	3905.0	3940.7	3959.7	4004.4
15°	3082.0	3080.9	3147.9	3269.6	3476.2	3720.8	3913.9	3975.4	4007.7	4073.6
17.5°	2930.1	2925.7	2972.6	3065.3	3257.3	3570.0	3891.6	3994.3	4063.6	4146.2
20°	2902.2	2893.3	2917.9	2963.6	3099.9	3404.7	3833.5	3994.3	4108.2	4215.4
22.5°	3003.8	2989.3	2979.3	2973.7	3034.0	3268.5	3767.7	3980.9	4174.1	4314.8
25°	3208.2	3185.9	3134.5	3084.2	3066.4	3207.1	3709.6	3977.6	4272.4	4448.8
27.5°	3538.7	3510.8	3407.0	3286.4	3178.0	3238.3	3683.9	3997.7	4380.7	4590.6
30°	3948.6	3918.4	3787.8	3602.4	3408.1	3354.5	3716.3	4056.9	4519.2	4779.4
32.5°	4315.9	4282.4	4170.8	3982.1	3719.6	3555.5	3819.0	4169.7	4736.9	5041.8
35°	4642.0	4602.9	4502.4	4328.2	4101.5	3838.0	4004.4	4369.5	5046.2	5468.3
37.5°	4961.4	4915.6	4806.2	4621.9	4463.3	4214.3	4260.1	4626.4	5457.2	5986.5
40°	5318.7	5252.8	5119.9	4937.9	4783.8	4655.4	4596.2	4941.3	5874.8	6564.9
42.5°	5664.9	5602.3	5443.8	5288.6	5095.4	5058.5	4985.9	5309.8	6331.5	7200.3
45°	6037.8	5963.0	5771.0	5574.4	5452.7	5326.5	5363.4	5678.3	6779.3	7848.0
47.5°	6387.4	6303.6	6076.9	5858.1	5791.1	5552.1	5709.5	6083.6	7245.0	8504.6
50°	6576.1	6493.4	6304.7	6107.1	6054.6	5830.1	6084.7	6529.2	7733.0	9158.9
52.5°	6733.5	6644.2	6397.4	6288.0	6272.3	6132.8	6547.0	7038.4	8220.9	9737.4
55°	6901.0	6801.6	6486.7	6388.5	6459.9	6472.2	7095.3	7615.7	8736.8	10301.3
57.5°	7094.2	6968.0	6572.7	6473.3	6643.1	6869.8	7725.1	8214.2	9243.8	10823.9
60°	7276.2	7148.9	6738.0	6608.5	6840.7	7331.0	8447.6	8939.0	9817.8	11289.6
62.5°	7312.0	7207.0	6869.8	6868.6	7108.7	7869.2	9303.0	9670.4	10319.2	11749.6
65°	6693.3	6627.4	6427.6	6858.6	7492.9	8644.2	10255.5	10606.2	10956.8	12151.6
67.5°	5094.3	5103.2	5088.7	5920.6	7182.4	9757.5	11634.6	11607.8	11744.0	12602.8
70°	2329.4	2381.9	2723.6	4087.0	5754.2	9885.9	13914.8	13567.6	12732.3	13186.8
72.5°	1258.5	1298.7	1438.3	1979.9	3459.4	8789.3	15618.9	15865.7	14046.6	13579.8
75°	923.5	945.8	1043.0	1258.5	1452.8	6532.5	15008.1	16274.4	14210.8	12663.1
77.5°	691.2	701.3	780.6	997.2	743.7	3443.8	11991.9	13478.2	12165.0	10404.0
80°	501.4	512.6	571.7	748.2	521.5	1259.6	8234.3	9460.4	8331.5	6631.9
82.5°	346.2	350.6	376.3	509.2	364.0	489.1	4672.2	5547.6	4650.9	2327.1
85°	208.8	214.4	225.6	297.0	206.6	232.3	2016.7	2085.9	1390.3	556.1
87.5°	86.0	91.6	100.5	125.1	81.5	64.8	332.8	417.6	260.2	163.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949101
 CATALOG NUMBER: GALN-SB3D-950-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3810.1	0°	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1	3810.1
3821.3	2.5°	3815.7	3807.9	3786.6	3757.6	3730.8	3697.3	3682.8	3670.5	3659.3	3638.1
3851.4	5°	3839.1	3817.9	3761.0	3687.3	3603.5	3511.9	3422.6	3361.2	3308.7	3269.6
3886.0	7.5°	3874.9	3834.7	3730.8	3580.1	3388.0	3191.4	3013.9	2887.7	2792.8	2758.2
3935.2	10°	3911.7	3863.7	3682.8	3417.0	3085.4	2782.7	2547.1	2417.6	2341.7	2317.1
3993.2	12.5°	3955.3	3884.9	3608.0	3190.3	2747.0	2415.4	2209.9	2134.0	2094.9	2081.5
4064.7	15°	4018.9	3902.8	3495.2	2906.7	2424.3	2147.4	2014.5	1962.0	1941.9	1940.8
4138.4	17.5°	4066.9	3906.1	3319.9	2603.0	2176.4	1985.4	1876.0	1855.9	1869.3	1889.4
4211.0	20°	4120.5	3876.0	3089.8	2326.0	2002.2	1843.6	1797.8	1811.2	1843.6	1872.7
4307.0	22.5°	4158.5	3821.3	2811.8	2110.5	1851.4	1762.1	1759.9	1787.8	1805.7	1820.2
4419.8	25°	4192.0	3728.6	2517.0	1929.6	1727.5	1713.0	1737.5	1728.6	1716.3	1728.6
4532.6	27.5°	4216.6	3582.3	2253.4	1771.0	1640.4	1679.5	1665.0	1644.9	1643.7	1650.4
4665.5	30°	4208.7	3386.9	2036.8	1620.3	1579.0	1616.9	1582.3	1579.0	1575.6	1579.0
4865.3	32.5°	4208.7	3164.6	1870.4	1516.4	1539.9	1525.4	1522.0	1514.2	1500.8	1499.7
5136.7	35°	4232.2	2942.4	1727.5	1460.6	1507.5	1472.9	1475.1	1456.1	1428.2	1414.8
5496.3	37.5°	4280.2	2763.8	1585.7	1433.8	1450.6	1449.4	1440.5	1408.1	1359.0	1316.6
5945.2	40°	4396.3	2711.3	1488.5	1421.5	1423.8	1437.2	1413.7	1351.2	1239.5	1170.3
6400.8	42.5°	4578.4	2799.5	1467.3	1391.4	1405.9	1419.3	1373.5	1228.3	1149.1	1107.7
6878.7	45°	4809.5	2953.6	1513.1	1347.8	1363.5	1386.9	1250.7	1181.4	1145.7	1146.8
7352.2	47.5°	5102.1	3115.5	1598.0	1309.9	1302.0	1315.4	1169.2	1126.7	1077.6	1089.9
7806.7	50°	5440.4	3279.7	1678.4	1258.5	1233.9	1190.4	1116.7	1076.5	1013.9	984.9
8245.5	52.5°	5806.7	3438.2	1710.7	1196.0	1160.2	1110.0	1080.9	1031.8	955.9	907.9
8659.8	55°	6154.0	3582.3	1675.0	1121.1	1086.5	1047.4	1043.0	1012.8	931.3	864.3
9028.3	57.5°	6482.3	3702.9	1585.7	1045.2	1011.7	988.3	1018.4	1003.9	901.2	815.2
9376.7	60°	6760.3	3785.5	1456.1	968.2	944.7	932.4	978.2	973.7	858.7	762.7
9689.4	62.5°	6981.4	3817.9	1313.2	894.5	888.9	866.5	922.4	922.4	805.1	711.3
9964.1	65°	7154.5	3786.6	1168.0	821.9	833.0	799.5	854.3	847.6	748.2	665.5
10280.1	67.5°	7307.5	3683.9	1007.2	750.4	776.1	733.7	782.8	767.2	685.6	619.8
10553.7	70°	7375.6	3444.9	824.1	678.9	710.2	668.9	711.3	682.3	615.3	570.6
10253.3	72.5°	6828.4	2863.1	648.8	604.1	630.9	597.4	634.3	600.8	539.4	519.3
8854.1	75°	5649.2	2148.5	499.2	522.6	542.7	517.0	541.6	517.0	461.2	475.7
6540.3	77.5°	4102.7	1450.6	381.9	436.6	445.6	432.2	453.4	425.5	375.2	371.9
3259.6	80°	2040.2	849.8	299.3	345.1	341.7	332.8	357.3	343.9	301.5	319.4
879.9	82.5°	590.7	364.0	217.8	242.3	235.6	237.9	255.7	262.4	393.1	389.7
273.6	85°	185.4	142.9	130.7	135.1	128.4	131.8	150.8	299.3	276.9	161.9
84.9	87.5°	48.0	49.1	32.4	34.6	35.7	42.4	48.0	182.0	87.1	57.0
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>
3810.1
3628.1
3237.2
2697.9
2279.1
2084.8
1945.2
1897.2
1882.7
1828.0
1736.4
1661.6
1591.3
1514.2
1428.2
1331.1
1179.2
1107.7
1152.4
1121.1
992.7
906.7
864.3
810.7
759.3
708.0
661.1
615.3
561.7
502.5
434.4
355.1
316.0
398.7
175.3
60.3
0.0

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