

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: P951339

Luminaire Tested: **GALN-SB5C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37757 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

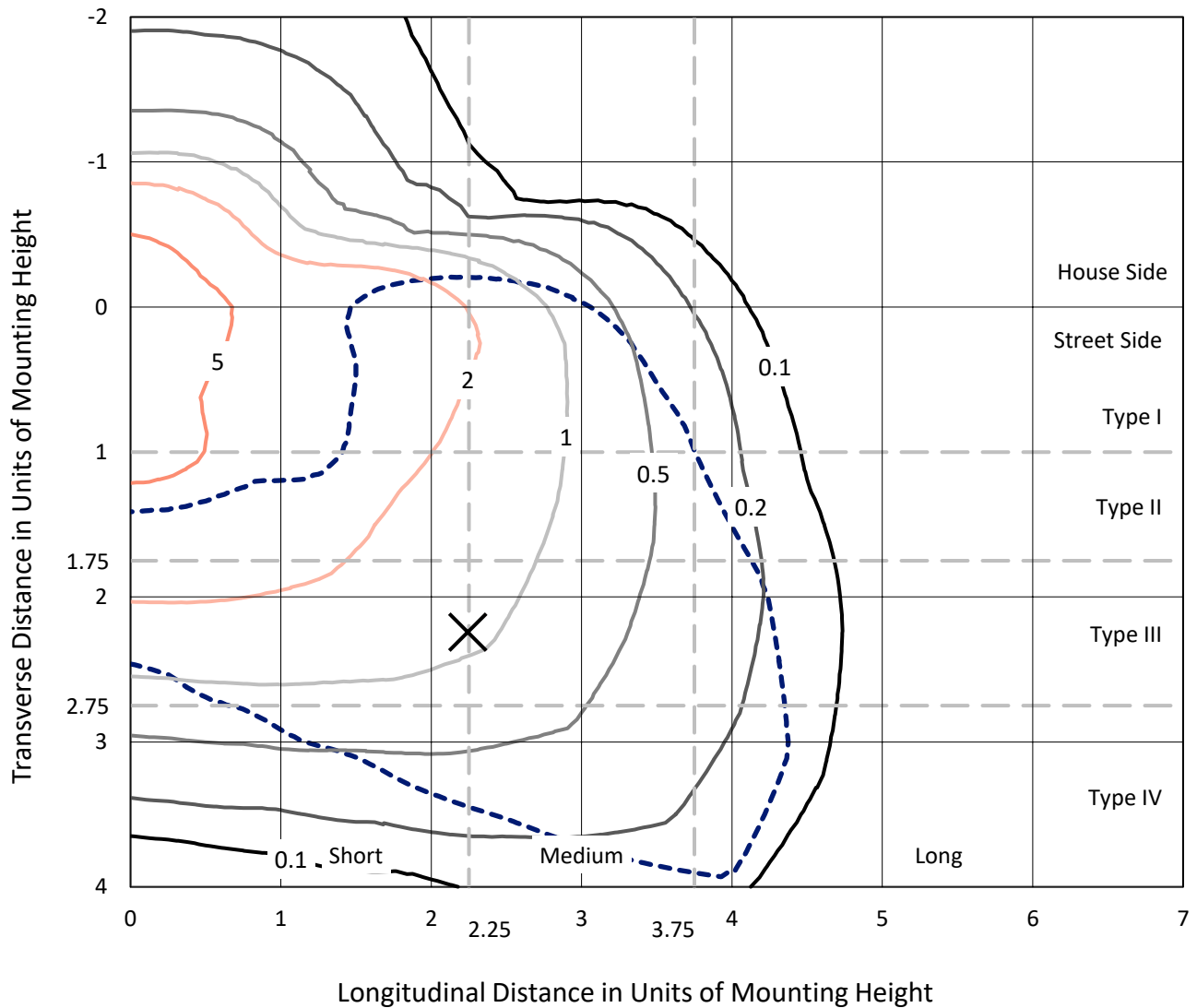
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

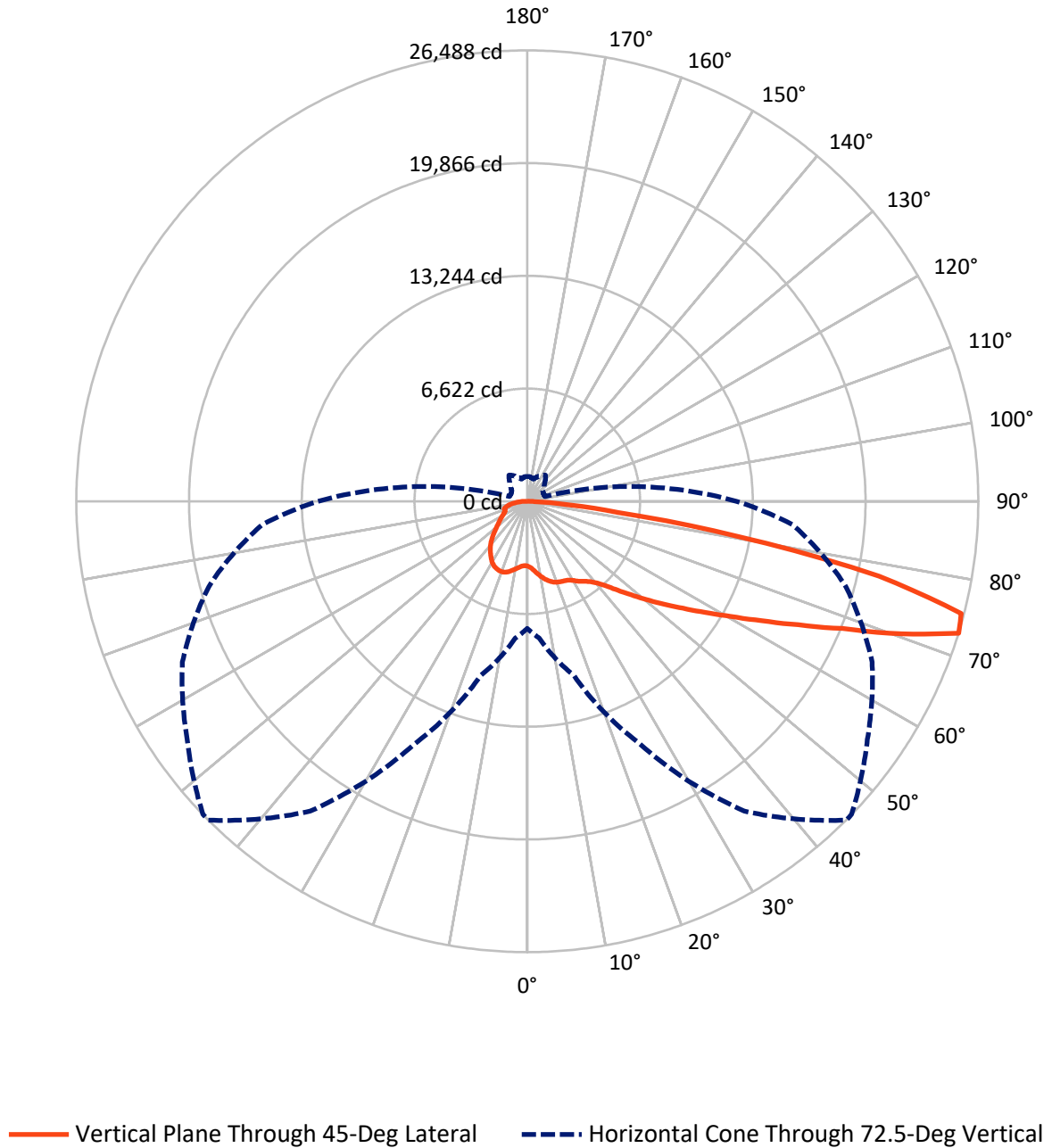
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8535.6	0.0	8535.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29221.4	0.0	29221.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	37757.0	0.0	37757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	1.0
10°-20°	1292.6	3.4
20°-30°	2248.5	6.0
30°-40°	3223.3	8.5
40°-50°	4538.6	12.0
50°-60°	6951.8	18.4
60°-70°	10070.8	26.7
70°-80°	8042.1	21.3
80°-90°	1001.6	2.7
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°	37757.0	100.0
0°-180°	37757.0	100.0

Coefficient of Utilization



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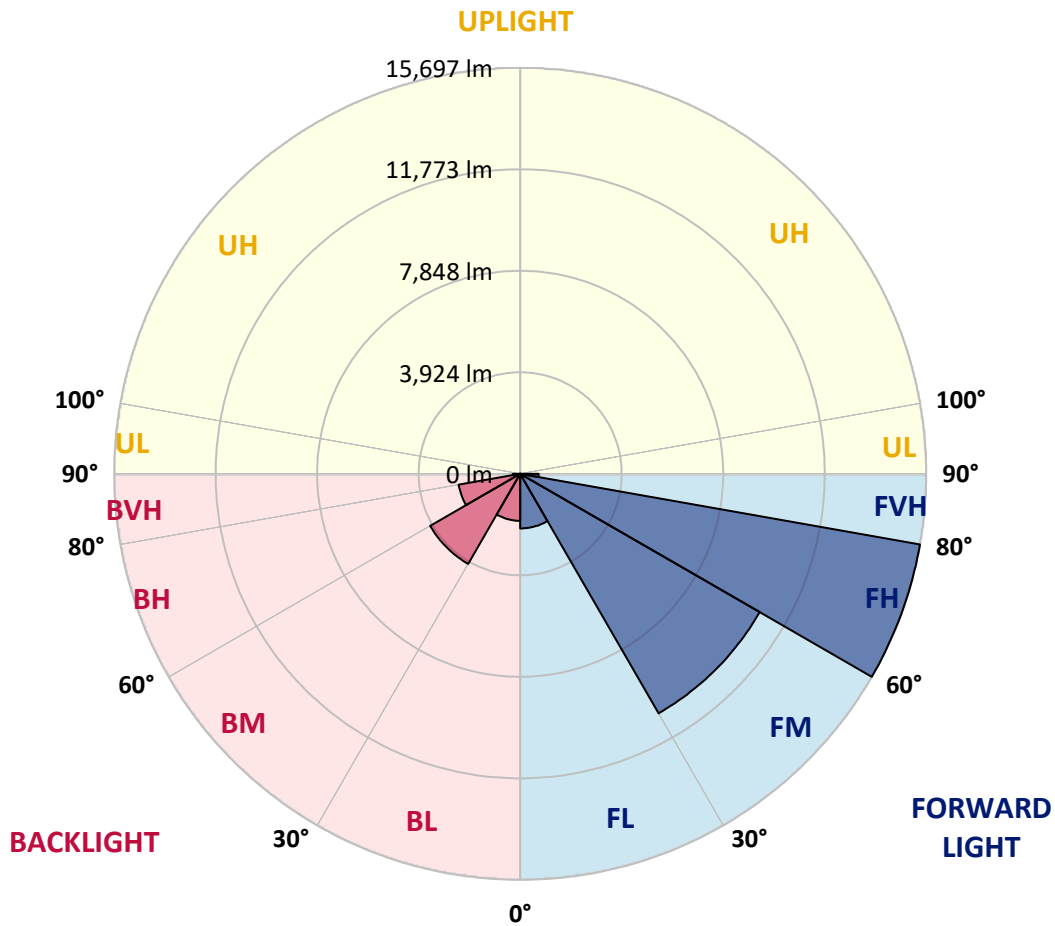
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.4	5.6			
FM (30°-60°)	10694.8	28.3			
FH (60°-80°)	15696.7	41.6			G5
FVH (80°-90°)	718.6	1.9			G4/750
BL (0°-30°)	1817.3	4.8	B3/2500		
BM (30°-60°)	4019.0	10.6	B3/5000		
BH (60°-80°)	2416.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	283.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9
2.5°	3958.1	3984.0	3960.1	3938.2	3928.3	3902.4	3900.4	3884.5	3874.6	3846.7
5°	4234.6	4268.4	4228.6	4184.9	4145.1	4081.4	4073.5	4027.7	3976.0	3916.4
7.5°	4546.9	4576.7	4531.0	4465.3	4395.7	4290.3	4288.3	4204.8	4123.2	4021.8
10°	4819.4	4859.1	4797.5	4708.0	4620.5	4501.1	4487.2	4391.7	4288.3	4157.0
12.5°	5060.0	5087.9	5028.2	4918.8	4817.4	4698.0	4680.1	4574.7	4459.4	4310.2
15°	5251.0	5286.8	5207.2	5089.9	4982.5	4865.1	4849.2	4753.7	4638.4	4481.2
17.5°	5376.3	5406.1	5324.6	5193.3	5089.9	4992.4	4980.5	4900.9	4799.5	4640.4
20°	5424.0	5455.8	5370.3	5237.1	5141.6	5066.0	5060.0	5002.3	4932.7	4787.5
22.5°	5471.8	5501.6	5390.2	5251.0	5167.4	5119.7	5117.7	5079.9	5052.1	4932.7
25°	5664.7	5672.6	5523.5	5322.6	5203.2	5161.5	5159.5	5157.5	5169.4	5075.9
27.5°	5831.8	5829.8	5702.5	5513.5	5328.5	5241.0	5239.0	5258.9	5296.7	5219.2
30°	6076.4	6054.5	5903.4	5706.5	5537.4	5402.1	5390.2	5372.3	5402.1	5340.5
32.5°	6595.5	6525.9	6281.3	5931.2	5710.4	5607.0	5591.1	5479.7	5491.6	5453.9
35°	7339.4	7247.9	6921.7	6356.9	5925.2	5778.1	5770.1	5628.9	5605.0	5571.2
37.5°	8224.5	8111.2	7731.3	6973.5	6295.2	5977.0	5965.0	5837.7	5740.3	5704.5
40°	9113.6	8970.4	8656.2	7725.3	6840.2	6309.1	6271.3	6078.4	5967.0	5907.3
42.5°	9976.9	9857.5	9589.0	8568.6	7512.5	6794.4	6710.9	6380.7	6297.2	6241.5
45°	10740.6	10633.2	10436.3	9469.7	8300.1	7454.8	7373.2	6834.2	6808.4	6808.4
47.5°	11361.2	11337.3	11128.5	10388.6	9229.0	8206.6	8065.4	7464.7	7534.4	7641.8
50°	12049.4	11983.8	11761.0	11293.6	10321.0	9067.9	8952.5	8238.5	8499.0	8793.4
52.5°	12681.9	12717.7	12469.1	12236.4	11554.1	10028.6	9825.7	9151.4	9714.3	10201.6
55°	13332.3	13334.3	13264.7	13232.9	12847.0	11090.7	10867.9	10249.3	11144.4	11749.1
57.5°	13942.9	13946.9	14050.3	14330.8	14346.7	12315.9	12063.3	11597.9	12733.6	13350.2
60°	14487.9	14515.8	14798.2	15454.6	15665.4	13720.2	13481.5	13191.1	14376.5	14997.1
62.5°	14670.9	14772.3	15400.9	16333.7	16968.2	15442.6	15207.9	15034.9	16103.0	16679.8
65°	14360.6	14593.3	15808.6	17059.7	18308.8	17489.3	17256.6	17067.7	17897.1	18440.1
67.5°	13598.8	13899.2	15784.8	17821.5	19935.8	19951.7	19734.9	19291.4	19820.4	20029.3
70°	11591.9	12041.4	14394.4	18105.9	21803.5	23319.1	23110.3	21968.6	21739.8	20729.4
72.5°	7468.7	8073.4	10599.4	15764.9	22219.2	26487.6	26475.7	24385.2	22346.5	19368.9
75°	2724.9	3094.9	4924.8	9895.3	18650.9	26326.5	26404.1	23971.5	20399.2	14961.3
77.5°	992.5	1086.0	1607.1	3803.0	11470.6	21123.2	21284.4	19164.1	14519.7	7508.5
80°	521.1	572.8	823.4	1475.8	4914.8	12544.7	12797.3	11389.0	6824.3	2261.5
82.5°	288.4	312.3	461.4	801.6	2213.8	5364.3	5515.5	4499.1	2400.7	958.7
85°	155.1	165.1	216.8	437.6	1082.0	1859.7	1901.5	1344.6	956.7	562.9
87.5°	45.7	55.7	71.6	139.2	423.7	417.7	427.6	266.5	377.9	284.4
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°
3808.9	0°	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9	3808.9
3838.8	2.5°	3826.8	3820.9	3799.0	3789.1	3777.1	3775.1	3785.1	3787.1	3789.1	3791.0
3882.5	5°	3862.6	3842.8	3822.9	3810.9	3814.9	3816.9	3836.8	3850.7	3860.7	3868.6
3964.1	7.5°	3932.3	3916.4	3882.5	3880.6	3886.5	3904.4	3930.3	3962.1	3980.0	3993.9
4069.5	10°	4035.7	4005.9	3966.1	3972.0	3984.0	4009.8	4063.5	4089.4	4119.2	4145.1
4198.8	12.5°	4141.1	4115.3	4069.5	4073.5	4093.4	4139.1	4190.8	4222.7	4242.5	4262.4
4338.0	15°	4278.4	4232.6	4182.9	4182.9	4218.7	4268.4	4292.3	4318.1	4330.1	4351.9
4487.2	17.5°	4419.6	4359.9	4294.3	4290.3	4334.0	4357.9	4371.8	4375.8	4379.8	4403.7
4632.4	20°	4560.8	4495.2	4401.7	4393.7	4403.7	4399.7	4397.7	4393.7	4399.7	4429.5
4781.6	22.5°	4700.0	4624.4	4495.2	4459.4	4431.5	4393.7	4391.7	4389.7	4393.7	4423.5
4942.7	25°	4863.1	4771.6	4598.6	4491.2	4397.7	4346.0	4351.9	4353.9	4357.9	4381.8
5109.8	27.5°	5040.1	4938.7	4694.1	4481.2	4312.2	4276.4	4266.4	4272.4	4286.3	4324.1
5276.8	30°	5217.2	5097.8	4781.6	4441.5	4204.8	4155.0	4123.2	4137.1	4180.9	4218.7
5422.0	32.5°	5378.3	5258.9	4851.2	4353.9	4067.5	3989.9	3948.2	3966.1	4009.8	4023.8
5583.1	35°	5567.2	5432.0	4881.0	4214.7	3918.3	3799.0	3743.3	3717.5	3739.3	3725.4
5772.1	37.5°	5778.1	5636.8	4877.0	4031.7	3743.3	3606.1	3528.5	3431.0	3385.3	3337.6
6050.6	40°	6090.3	5887.5	4829.3	3810.9	3526.5	3401.2	3262.0	3096.9	2993.5	2900.0
6500.1	42.5°	6516.0	6235.5	4741.8	3568.3	3281.9	3164.5	2975.6	2782.6	2619.5	2464.4
7182.3	45°	7150.5	6691.0	4632.4	3309.7	3017.3	2902.0	2697.1	2480.3	2295.3	2096.4
8150.9	47.5°	8065.4	7303.6	4529.0	3015.3	2738.9	2633.4	2448.5	2247.6	2028.8	1835.9
9551.2	50°	9322.5	8182.8	4433.5	2728.9	2464.4	2384.8	2237.6	2032.8	1812.0	1656.8
11192.1	52.5°	10921.6	9378.2	4393.7	2452.4	2207.8	2178.0	2060.6	1869.7	1660.8	1529.5
13105.6	55°	12757.5	10808.3	4393.7	2187.9	1983.0	1993.0	1911.4	1734.4	1553.4	1436.1
15078.7	57.5°	14631.1	12256.3	4314.2	1943.3	1792.1	1833.9	1782.1	1627.0	1463.9	1342.6
17153.2	60°	16357.6	13469.5	3991.9	1720.5	1623.0	1688.7	1654.9	1521.6	1322.7	1221.2
18887.6	62.5°	17684.3	14153.8	3371.4	1543.5	1483.8	1559.4	1541.5	1382.4	1296.8	1255.1
20311.7	65°	18348.6	14042.4	2577.8	1386.3	1366.4	1483.8	1446.0	1440.0	1372.4	1324.7
20775.2	67.5°	17940.8	13083.7	1869.7	1271.0	1298.8	1414.2	1559.4	1583.2	1457.9	1364.5
19470.4	70°	16152.7	11349.3	1392.3	1161.6	1213.3	1416.2	1778.2	1656.8	1430.1	1320.7
15615.7	72.5°	12288.1	8463.2	1080.0	1046.2	1101.9	1426.1	1875.6	1623.0	1350.5	1459.9
9728.2	75°	7027.2	4646.3	867.2	905.0	962.7	1332.6	1825.9	1535.5	1288.9	1340.6
3854.7	77.5°	2679.2	1786.1	716.0	765.8	773.7	1163.6	1746.3	1529.5	1227.2	1197.4
1155.6	80°	928.9	698.1	592.7	608.6	598.7	1034.3	1674.7	1330.6	1004.4	899.0
477.4	82.5°	379.9	348.1	469.4	449.5	425.6	803.6	1352.5	1088.0	821.5	726.0
230.7	85°	165.1	220.8	310.3	272.5	246.6	556.9	1084.0	920.9	694.2	598.7
75.6	87.5°	33.8	83.5	131.3	123.3	127.3	371.9	769.7	654.4	491.3	368.0
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>
3808.9
3799.0
3872.6
3997.9
4139.1
4270.4
4359.9
4411.6
4441.5
4443.4
4413.6
4361.9
4260.5
4073.5
3769.2
3367.4
2905.9
2450.5
2072.5
1814.0
1646.9
1519.6
1424.1
1322.7
1205.3
1241.1
1308.8
1348.5
1302.8
1448.0
1340.6
1092.0
869.2
718.0
596.7
288.4
0.0

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