

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: P955616

Luminaire Tested: **GALN-SB8C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51273 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

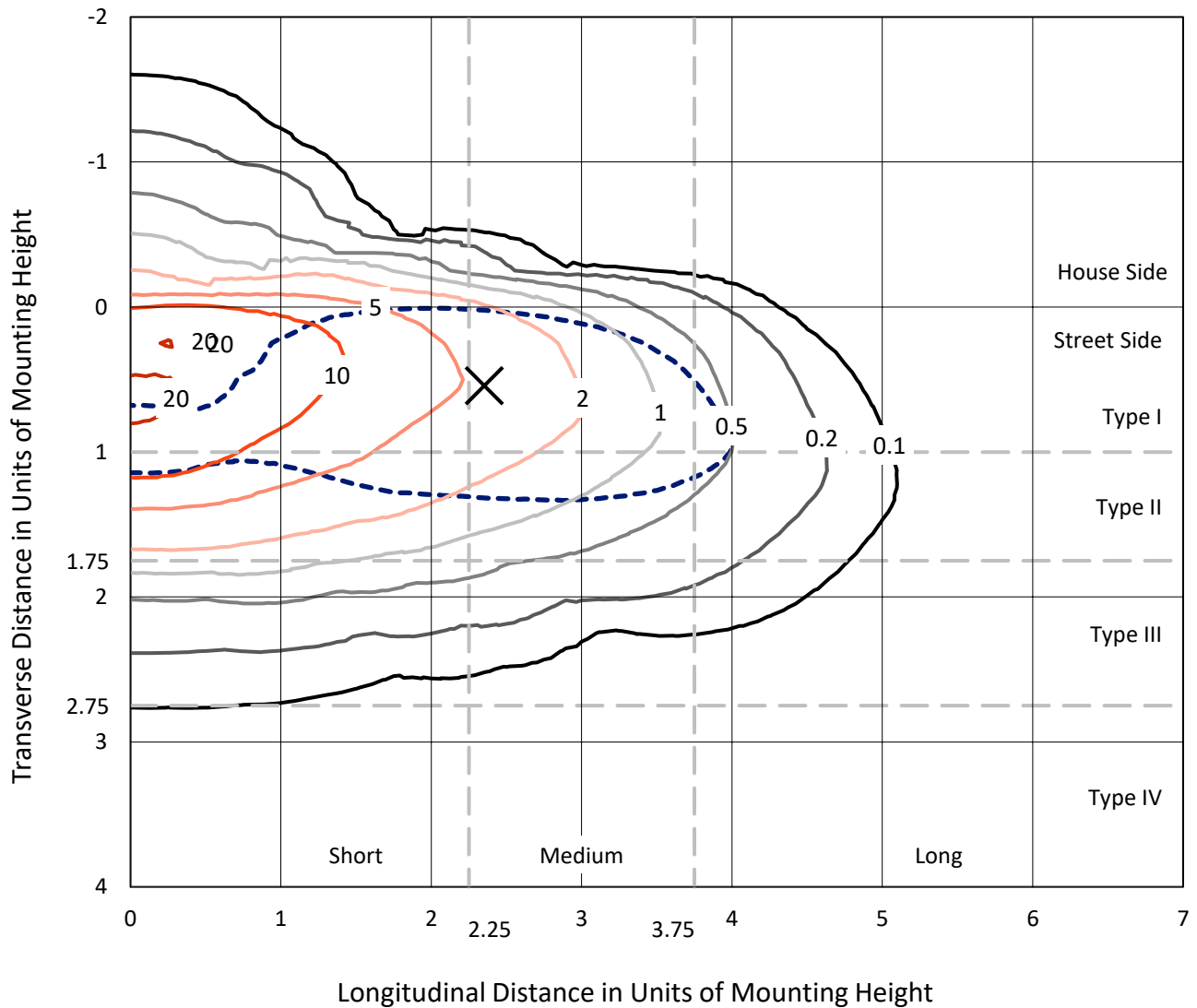
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

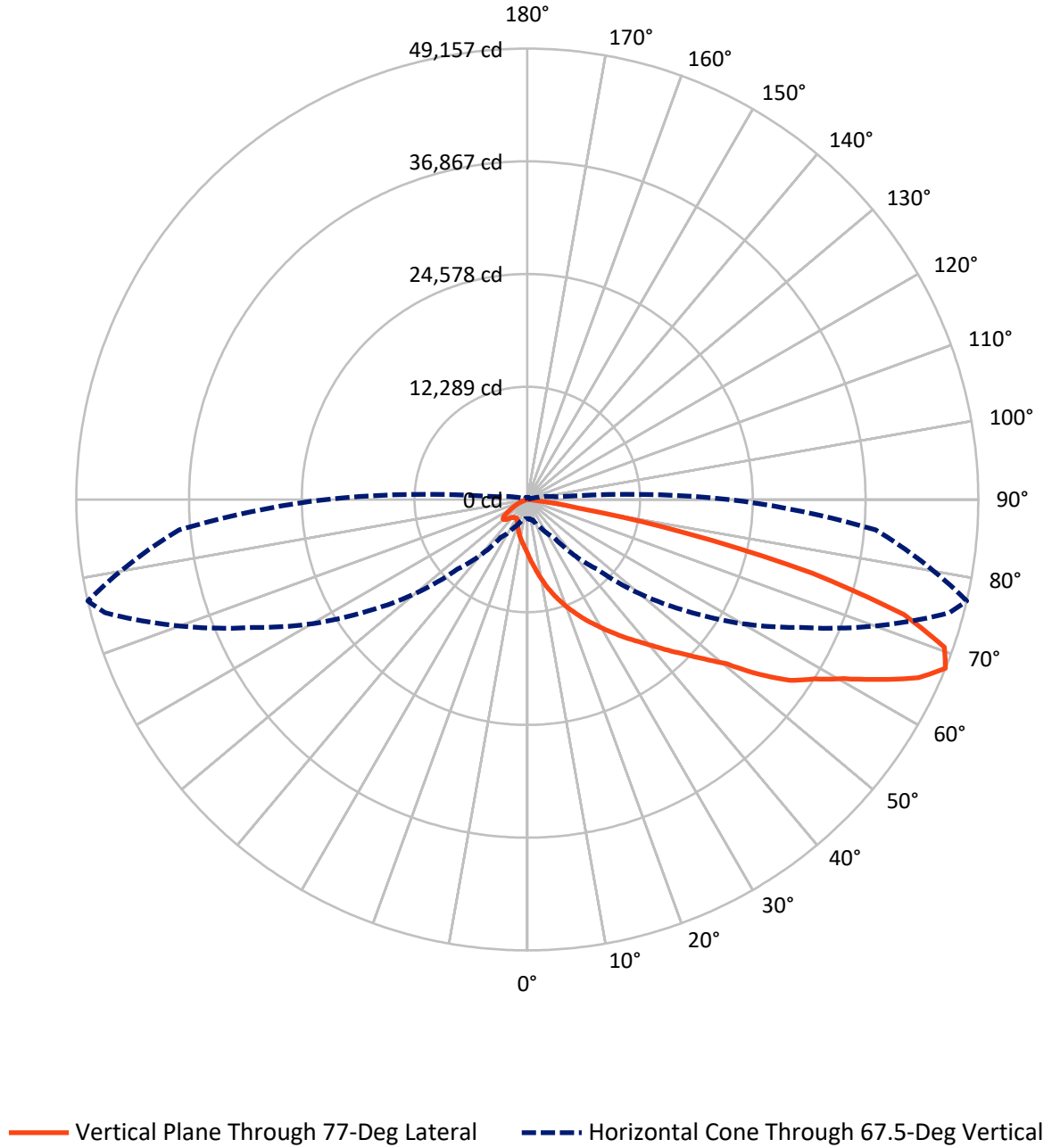
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3772.2	0.0	3772.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	47500.8	0.0	47500.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	51273.0	0.0	51273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.5	1.2
10°-20°	2113.3	4.1
20°-30°	4078.1	8.0
30°-40°	7079.7	13.8
40°-50°	10279.4	20.0
50°-60°	11804.6	23.0
60°-70°	10248.6	20.0
70°-80°	4827.2	9.4
80°-90°	238.7	0.5
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°	51273.0	100.0
0°-180°	51273.0	100.0

Coefficient of Utilization



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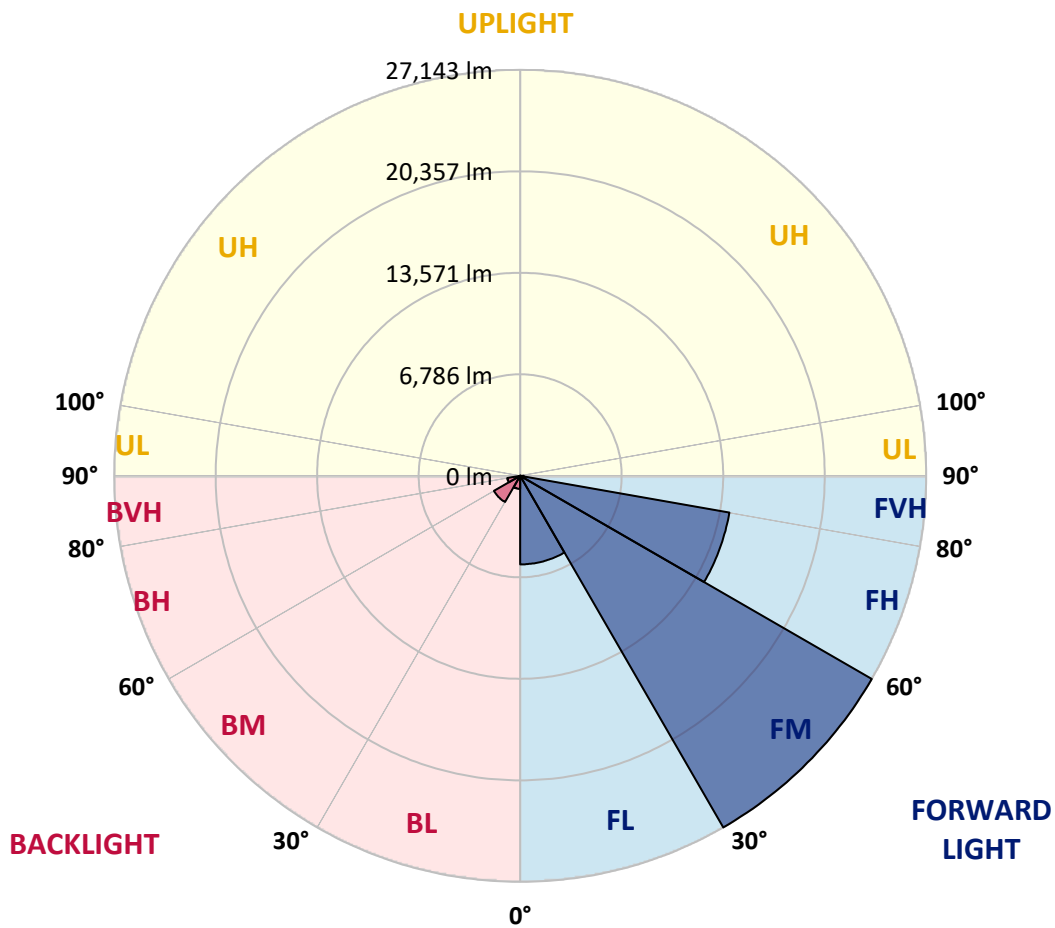
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5921.5	11.5			
FM (30°-60°)	27142.5	52.9			
FH (60°-80°)	14202.5	27.7			G5
FVH (80°-90°)	234.3	0.5			G3/500
BL (0°-30°)	873.3	1.7	B2/1000		
BM (30°-60°)	2021.2	3.9	B2/2500		
BH (60°-80°)	873.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5
2.5°	8185.8	8236.8	8163.6	8023.5	7813.3	7676.4	7342.1	7026.9	6676.7	6565.2
5°	9978.4	10023.0	9940.2	9787.4	9507.2	9239.7	8800.3	8141.3	7456.7	7237.0
7.5°	11306.1	11331.6	11299.7	11159.6	10892.2	10589.7	10099.4	9319.3	8303.7	8061.7
10°	12261.3	12344.0	12334.5	12280.4	12102.1	11856.9	11334.7	10446.4	9252.5	8940.4
12.5°	12894.9	12987.2	13041.3	13162.3	13152.8	12996.7	12538.3	11599.0	10198.1	9831.9
15°	13079.5	13178.2	13385.2	13665.4	13913.7	13993.3	13671.7	12729.3	11239.2	10771.2
17.5°	12974.5	13127.3	13375.6	13818.2	14362.6	14722.4	14687.4	13821.4	12184.8	11649.9
20°	13206.9	13353.3	13547.6	13920.1	14553.7	15206.4	15467.5	14865.7	13124.1	12563.7
22.5°	14493.2	14467.7	14486.8	14547.3	14926.2	15572.5	16110.6	15814.5	14053.8	13480.7
25°	16530.9	16416.3	16222.0	15894.1	15798.6	16110.6	16671.0	16655.1	15034.4	14420.0
27.5°	18867.9	18848.8	18393.5	17603.9	17158.1	17037.1	17304.6	17473.3	16005.5	15349.7
30°	21106.2	21157.1	20542.6	19663.9	18845.6	18371.2	18129.2	18250.2	16992.6	16352.6
32.5°	23054.7	23108.9	22440.2	21411.8	20399.3	19826.2	19316.8	19017.5	18068.7	17371.4
35°	24700.8	24754.9	23987.6	22851.0	21771.6	21252.6	20676.3	19858.1	19151.3	18501.7
37.5°	26171.8	26155.9	25127.5	23981.2	22921.0	22510.3	22207.8	20892.9	20265.6	19638.4
40°	27041.0	27107.9	26229.1	24965.1	23936.7	23637.4	23618.3	22176.0	21551.9	20943.8
42.5°	27295.7	27413.5	26776.7	25738.8	24805.9	24481.1	24981.0	23564.2	23048.4	22456.2
45°	26837.2	26951.8	26662.1	25942.5	25398.1	25188.0	26152.7	25003.3	24646.7	24060.8
47.5°	25500.0	25643.3	25713.3	25560.5	25554.1	25767.4	27203.4	26518.8	26544.3	25945.7
50°	22911.5	23153.4	23796.6	24337.8	25175.2	26225.9	28225.4	28161.7	28683.9	28168.1
52.5°	18205.6	18549.5	20765.5	22246.0	24127.7	26139.9	29349.3	30798.0	32437.7	31683.1
55°	14630.1	14630.1	16432.2	19202.2	22083.6	25573.2	29839.7	32511.0	34994.4	34816.1
57.5°	11926.9	12070.2	13219.6	15668.0	19125.8	24223.2	30142.1	33587.1	37054.4	36923.9
60°	7361.2	7670.1	9841.5	12258.1	15760.4	21819.4	29951.1	34676.0	39553.8	39658.8
62.5°	4145.5	4260.1	5228.0	8819.4	12254.9	18587.7	28489.7	35284.1	42750.4	43196.2
65°	2862.3	2919.7	3292.2	5489.1	8494.7	14798.8	25633.7	34905.3	45953.4	46854.5
67.5°	2079.1	2107.8	2340.2	3352.7	5040.1	10729.8	21157.1	32994.9	47650.5	49156.5
70°	1598.3	1617.4	1786.2	2203.3	2977.0	6622.5	15365.6	29196.5	46421.5	48220.4
72.5°	1299.0	1318.1	1448.7	1630.2	1974.0	3916.2	9313.0	23710.6	40996.1	42938.3
75°	1095.3	1120.7	1238.5	1356.3	1547.4	2515.3	4368.3	16511.8	30829.9	32103.4
77.5°	608.1	560.4	1006.1	1123.9	1305.4	1592.0	2044.1	9717.3	17266.4	17619.8
80°	378.9	391.6	799.2	904.2	1002.9	802.3	936.1	3741.1	5985.8	5686.5
82.5°	22.3	50.9	614.5	652.7	687.7	343.9	353.4	1270.4	1442.3	1324.5
85°	0.0	0.0	280.2	226.1	238.8	98.7	101.9	296.1	194.2	210.1
87.5°	0.0	0.0	0.0	6.4	0.0	9.6	19.1	25.5	9.6	12.7
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°
5912.5	0°	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5
6215.0	2.5°	5992.1	5769.3	5317.1	4874.6	4514.8	4180.5	3941.7	3715.6	3601.0	3594.6
6616.2	5°	6173.6	5705.6	4801.3	4002.2	3359.0	2843.2	2508.9	2270.1	2149.1	2107.8
7109.7	7.5°	6428.3	5724.7	4349.2	3238.0	2480.3	2037.7	1846.7	1770.3	1744.8	1716.1
7666.9	10°	6749.9	5769.3	3944.9	2607.6	1954.9	1732.0	1655.6	1623.8	1604.7	1585.6
8294.1	12.5°	7109.7	5810.6	3543.7	2165.1	1719.3	1604.7	1550.6	1512.4	1486.9	1464.6
8937.3	15°	7459.9	5836.1	3126.6	1856.2	1598.3	1506.0	1448.7	1407.3	1372.3	1346.8
9567.7	17.5°	7807.0	5871.1	2735.0	1671.6	1499.6	1407.3	1350.0	1299.0	1270.4	1241.7
10229.9	20°	8192.2	5864.8	2365.6	1541.0	1400.9	1308.6	1248.1	1200.3	1171.7	1139.8
10930.4	22.5°	8548.8	5832.9	2040.9	1429.6	1299.0	1209.9	1143.0	1095.3	1066.6	1041.1
11646.8	25°	8959.5	5807.5	1770.3	1327.7	1203.5	1114.4	1041.1	996.6	964.7	942.4
12366.3	27.5°	9354.3	5769.3	1572.9	1235.4	1111.2	1025.2	955.2	904.2	875.6	859.7
13108.2	30°	9742.8	5759.7	1499.6	1146.2	1028.4	942.4	872.4	824.6	802.3	796.0
13923.3	32.5°	10210.8	5785.2	1531.5	1114.4	952.0	866.0	799.2	764.1	741.9	741.9
14830.7	35°	10710.7	5778.8	1579.2	1143.0	901.0	789.6	738.7	716.4	694.1	694.1
15836.8	37.5°	11337.9	5788.4	1617.4	1190.8	881.9	725.9	697.3	668.6	655.9	655.9
16938.4	40°	12274.0	6103.6	1598.3	1232.2	875.6	681.4	624.0	614.5	604.9	604.9
18183.3	42.5°	13420.2	6788.1	1623.8	1235.4	872.4	649.5	573.1	592.2	569.9	566.7
19587.4	45°	14674.7	7536.3	1786.2	1168.5	869.2	633.6	547.6	569.9	534.9	534.9
21214.4	47.5°	15919.6	8278.2	1951.7	1073.0	859.7	630.4	525.3	512.6	503.1	506.2
23334.9	50°	17635.7	8883.1	2015.4	942.4	837.4	624.0	484.0	487.1	480.8	487.1
26324.6	52.5°	19504.7	9010.5	1939.0	796.0	773.7	604.9	455.3	468.0	464.9	471.2
28429.2	55°	20670.0	8873.6	1601.5	662.3	675.0	528.5	426.6	452.1	452.1	452.1
30486.0	57.5°	21873.5	8290.9	1136.7	538.1	560.4	433.0	401.2	436.2	433.0	429.8
32963.1	60°	22739.5	7348.5	748.2	442.6	445.7	356.6	372.5	410.7	407.5	391.6
35516.6	62.5°	23385.9	6307.3	480.8	375.7	340.7	321.6	340.7	372.5	359.8	324.8
37681.6	65°	23312.6	4865.0	369.3	321.6	280.2	280.2	296.1	324.8	286.6	229.2
38095.5	67.5°	21953.1	3292.2	305.7	270.6	235.6	232.4	245.2	270.6	245.2	194.2
35975.1	70°	19523.8	2152.3	245.2	210.1	187.9	171.9	197.4	232.4	207.0	156.0
30626.1	72.5°	15846.3	1311.8	184.7	152.8	136.9	111.4	156.0	191.0	165.6	114.6
21297.2	75°	10252.2	668.6	127.4	98.7	73.2	66.9	114.6	143.3	114.6	70.0
9449.9	77.5°	3922.6	280.2	70.0	44.6	38.2	31.8	63.7	86.0	47.8	15.9
1830.8	80°	754.6	117.8	35.0	22.3	19.1	12.7	9.6	6.4	0.0	0.0
324.8	82.5°	130.5	38.2	12.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0
63.7	85°	44.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.3	87.5°	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5912.5
3588.3
2101.4
1709.8
1579.2
1458.2
1343.6
1238.5
1136.7
1038.0
939.3
859.7
792.8
741.9
694.1
655.9
604.9
563.6
534.9
506.2
487.1
471.2
452.1
429.8
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187.9
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