

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: P954188

Luminaire Tested: **GALN-SB7C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954188
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-SB7C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 45094 lumens
Efficiency: N/A
Efficacy: 128.7 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

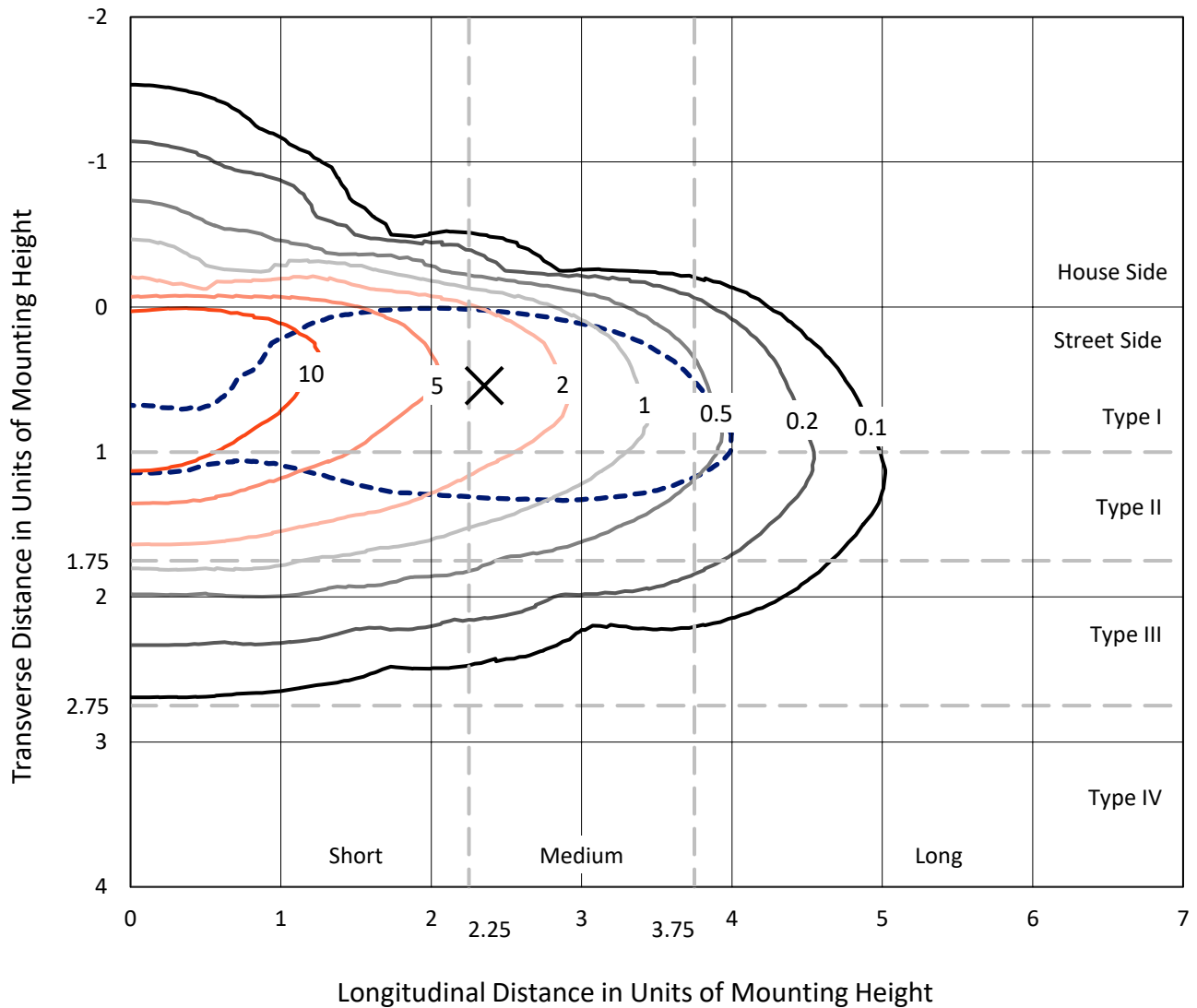
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954188
 CATALOG NUMBER: GALN-SB7C-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

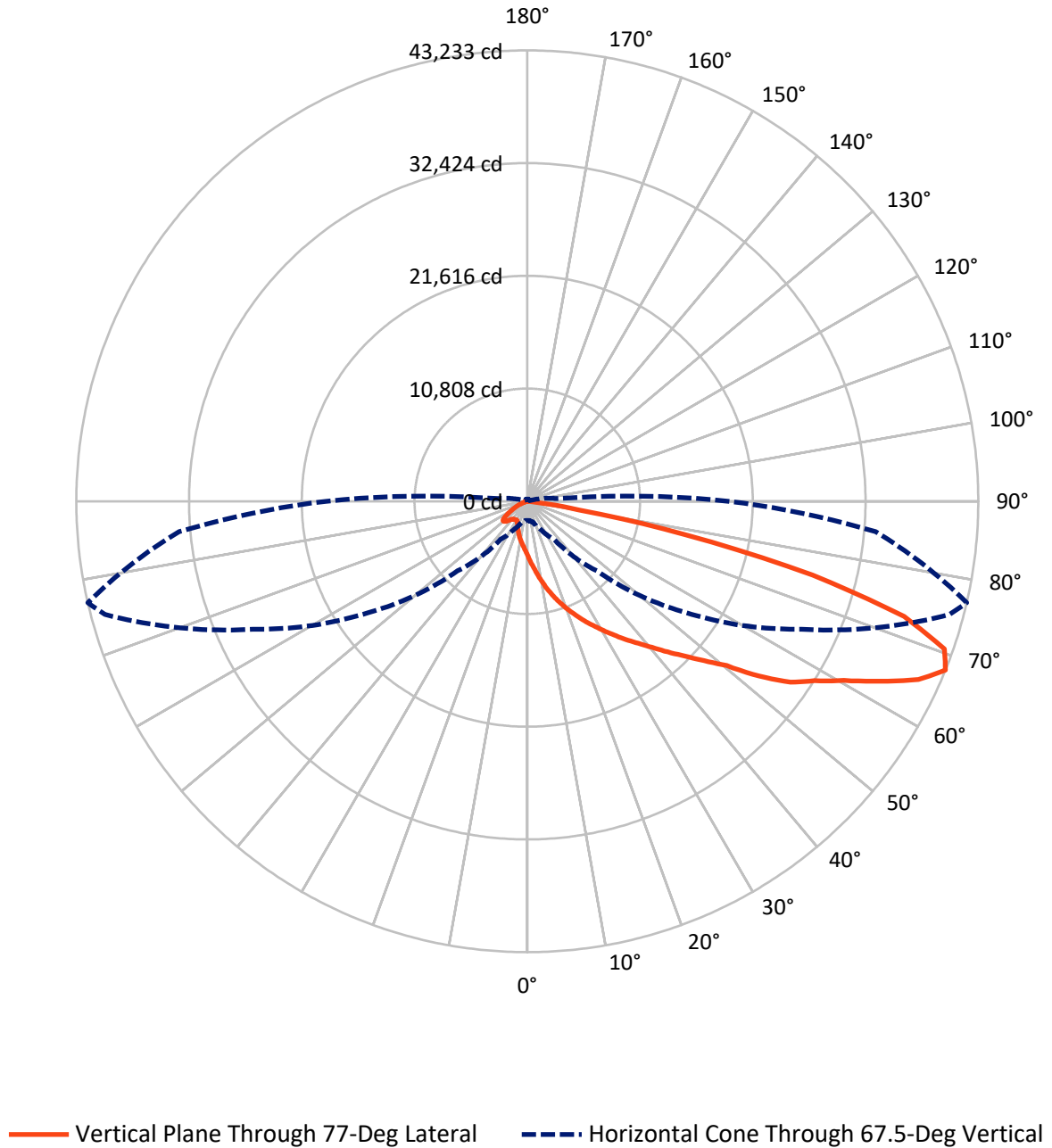
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P954188
CATALOG NUMBER: GALN-SB7C-735-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3317.6	0.0	3317.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	41776.4	0.0	41776.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	45094.0	0.0	45094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.7	1.2
10°-20°	1858.6	4.1
20°-30°	3586.6	8.0
30°-40°	6226.5	13.8
40°-50°	9040.6	20.0
50°-60°	10382.0	23.0
60°-70°	9013.5	20.0
70°-80°	4245.5	9.4
80°-90°	209.9	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°	45094.0	100.0
0°-180°	45094.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954188

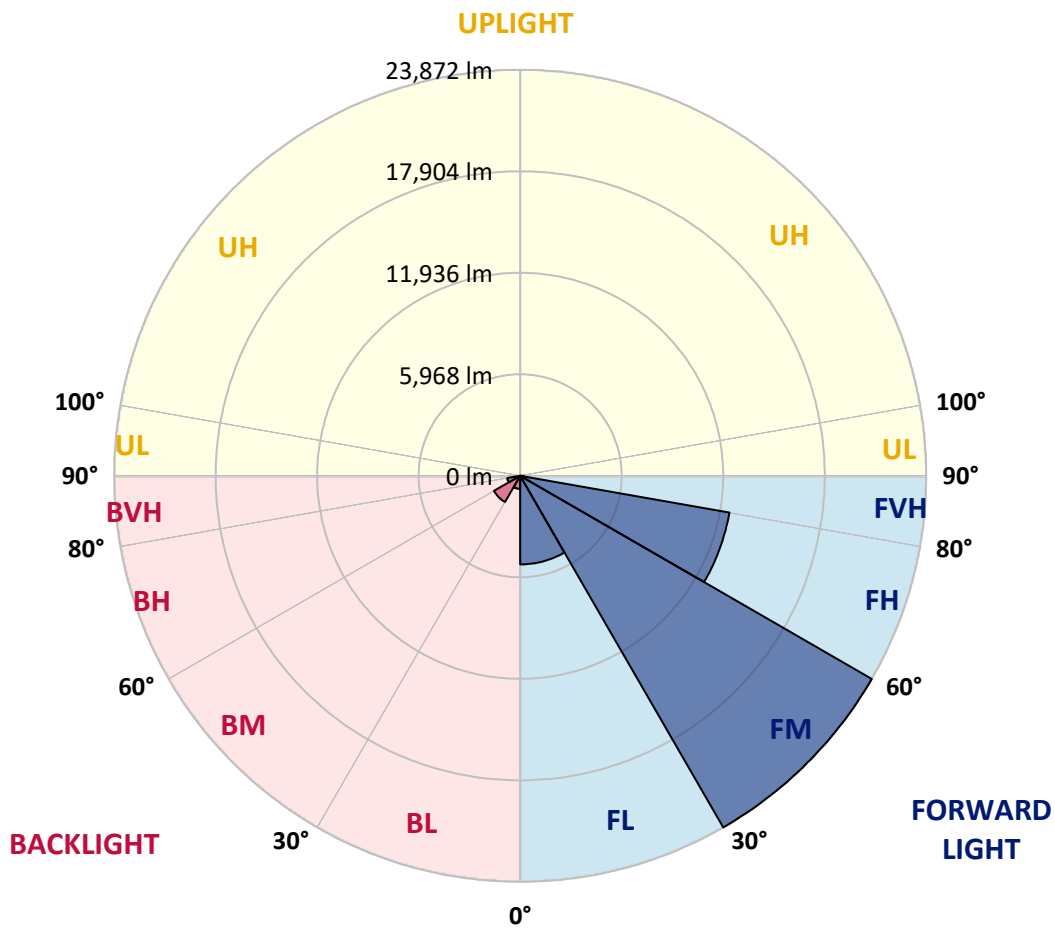
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5207.9	11.5			
FM (30°-60°)	23871.5	52.9			
FH (60°-80°)	12490.9	27.7			G5
FVH (80°-90°)	206.1	0.5			G2/225
BL (0°-30°)	768.1	1.7	B2/1000		
BM (30°-60°)	1777.6	3.9	B2/2500		
BH (60°-80°)	768.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.9	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



REPORT NUMBER: P954188
 CATALOG NUMBER: GALN-SB7C-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0
2.5°	7199.4	7244.2	7179.8	7056.5	6871.7	6751.3	6457.3	6180.1	5872.1	5774.0
5°	8775.9	8815.1	8742.3	8607.9	8361.4	8126.2	7739.8	7160.2	6558.1	6364.9
7.5°	9943.6	9966.0	9938.0	9814.8	9579.5	9313.5	8882.3	8196.2	7303.0	7090.1
10°	10783.6	10856.4	10848.0	10800.4	10643.6	10428.0	9968.8	9187.5	8137.4	7863.0
12.5°	11340.9	11422.1	11469.7	11576.1	11567.7	11430.5	11027.3	10201.2	8969.1	8647.1
15°	11503.3	11590.1	11772.1	12018.5	12236.9	12306.9	12024.1	11195.3	9884.8	9473.1
17.5°	11410.9	11545.3	11763.7	12152.9	12631.8	12948.2	12917.4	12155.7	10716.4	10246.0
20°	11615.3	11744.1	11914.9	12242.5	12799.8	13373.8	13603.4	13074.2	11542.5	11049.7
22.5°	12746.6	12724.2	12741.0	12794.2	13127.4	13695.9	14169.1	13908.7	12360.2	11856.1
25°	14538.7	14437.9	14267.1	13978.7	13894.7	14169.1	14661.9	14647.9	13222.6	12682.2
27.5°	16594.1	16577.3	16176.8	15482.4	15090.4	14984.0	15219.2	15367.6	14076.7	13499.8
30°	18562.6	18607.4	18067.0	17294.1	16574.5	16157.2	15944.4	16050.8	14944.8	14381.9
32.5°	20276.4	20324.0	19735.9	18831.5	17941.0	17436.9	16988.9	16725.7	15891.2	15278.0
35°	21724.1	21771.7	21096.8	20097.2	19147.9	18691.4	18184.6	17464.9	16843.3	16272.1
37.5°	23017.8	23003.8	22099.3	21091.2	20158.8	19797.5	19531.5	18375.0	17823.4	17271.7
40°	23782.2	23841.0	23068.2	21956.5	21052.0	20788.8	20772.0	19503.5	18954.7	18419.8
42.5°	24006.3	24109.9	23549.8	22636.9	21816.5	21530.9	21970.5	20724.4	20270.8	19749.9
45°	23603.0	23703.8	23449.0	22816.2	22337.3	22152.5	23001.0	21990.1	21676.5	21161.2
47.5°	22426.9	22552.9	22614.5	22480.1	22474.5	22662.1	23925.0	23323.0	23345.4	22819.0
50°	20150.4	20363.2	20928.8	21404.9	22141.3	23065.4	24823.9	24767.9	25227.1	24773.5
52.5°	16011.6	16314.1	18263.0	19565.1	21220.0	22989.8	25812.4	27086.5	28528.6	27864.9
55°	12867.0	12867.0	14451.9	16888.1	19422.3	22491.3	26243.6	28593.0	30777.2	30620.4
57.5°	10489.6	10615.6	11626.5	13779.9	16820.9	21304.0	26509.6	29539.5	32588.9	32474.1
60°	6474.1	6745.7	8655.5	10780.8	13861.1	19189.9	26341.6	30497.2	34787.1	34879.5
62.5°	3645.9	3746.7	4598.0	7756.6	10778.0	16347.7	25056.3	31032.0	37598.5	37990.5
65°	2517.4	2567.8	2895.4	4827.6	7471.0	13015.4	22544.5	30698.8	40415.5	41208.0
67.5°	1828.5	1853.7	2058.2	2948.6	4432.7	9436.7	18607.4	29018.6	41908.0	43232.5
70°	1405.7	1422.5	1570.9	1937.7	2618.2	5824.4	13513.8	25678.0	40827.1	42409.3
72.5°	1142.5	1159.3	1274.1	1433.7	1736.1	3444.3	8190.6	20853.2	36055.6	37763.7
75°	963.3	985.7	1089.3	1192.9	1360.9	2212.2	3841.9	14521.9	27114.5	28234.6
77.5°	534.8	492.8	884.9	988.5	1148.1	1400.1	1797.7	8546.3	15185.6	15496.4
80°	333.2	344.4	702.9	795.3	882.1	705.7	823.3	3290.3	5264.4	5001.2
82.5°	19.6	44.8	540.4	574.0	604.8	302.4	310.8	1117.3	1268.5	1164.9
85°	0.0	0.0	246.4	198.8	210.0	86.8	89.6	260.4	170.8	184.8
87.5°	0.0	0.0	0.0	5.6	0.0	8.4	16.8	22.4	8.4	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954188
 CATALOG NUMBER: GALN-SB7C-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5200.0	0°	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0
5466.0	2.5°	5270.0	5074.0	4676.4	4287.1	3970.7	3676.7	3466.7	3267.9	3167.0	3161.4
5818.8	5°	5429.6	5018.0	4222.7	3519.9	2954.2	2500.6	2206.6	1996.6	1890.1	1853.7
6252.9	7.5°	5653.6	5034.8	3825.1	2847.8	2181.4	1792.1	1624.1	1556.9	1534.5	1509.3
6742.9	10°	5936.5	5074.0	3469.5	2293.4	1719.3	1523.3	1456.1	1428.1	1411.3	1394.5
7294.6	12.5°	6252.9	5110.4	3116.6	1904.1	1512.1	1411.3	1363.7	1330.1	1307.7	1288.1
7860.2	15°	6560.9	5132.8	2749.8	1632.5	1405.7	1324.5	1274.1	1237.7	1206.9	1184.5
8414.6	17.5°	6866.1	5163.6	2405.4	1470.1	1318.9	1237.7	1187.3	1142.5	1117.3	1092.1
8997.1	20°	7205.0	5158.0	2080.6	1355.3	1232.1	1150.9	1097.7	1055.7	1030.5	1002.5
9613.1	22.5°	7518.6	5130.0	1794.9	1257.3	1142.5	1064.1	1005.3	963.3	938.1	915.7
10243.2	25°	7879.8	5107.6	1556.9	1167.7	1058.5	980.1	915.7	876.5	848.5	828.9
10876.0	27.5°	8227.0	5074.0	1383.3	1086.5	977.3	901.7	840.1	795.3	770.1	756.1
11528.5	30°	8568.7	5065.6	1318.9	1008.1	904.5	828.9	767.3	725.3	705.7	700.1
12245.3	32.5°	8980.3	5088.0	1346.9	980.1	837.3	761.7	702.9	672.1	652.5	652.5
13043.4	35°	9419.9	5082.4	1388.9	1005.3	792.5	694.5	649.7	630.0	610.4	610.4
13928.3	37.5°	9971.6	5090.8	1422.5	1047.3	775.7	638.4	613.2	588.0	576.8	576.8
14897.1	40°	10794.8	5368.0	1405.7	1083.7	770.1	599.2	548.8	540.4	532.0	532.0
15992.0	42.5°	11802.9	5970.1	1428.1	1086.5	767.3	571.2	504.0	520.8	501.2	498.4
17226.9	45°	12906.2	6628.1	1570.9	1027.7	764.5	557.2	481.6	501.2	470.4	470.4
18657.8	47.5°	14001.1	7280.6	1716.5	943.7	756.1	554.4	462.0	450.8	442.4	445.2
20522.8	50°	15510.4	7812.6	1772.5	828.9	736.5	548.8	425.6	428.4	422.8	428.4
23152.2	52.5°	17154.1	7924.6	1705.3	700.1	680.5	532.0	400.4	411.6	408.8	414.4
25003.1	55°	18179.0	7804.2	1408.5	582.4	593.6	464.8	375.2	397.6	397.6	397.6
26812.1	57.5°	19237.5	7291.8	999.7	473.2	492.8	380.8	352.8	383.6	380.8	378.0
28990.6	60°	19999.1	6462.9	658.1	389.2	392.0	313.6	327.6	361.2	358.4	344.4
31236.4	62.5°	20567.6	5547.2	422.8	330.4	299.6	282.8	299.6	327.6	316.4	285.6
33140.6	65°	20503.2	4278.7	324.8	282.8	246.4	246.4	260.4	285.6	252.0	201.6
33504.6	67.5°	19307.5	2895.4	268.8	238.0	207.2	204.4	215.6	238.0	215.6	170.8
31639.6	70°	17170.9	1892.9	215.6	184.8	165.2	151.2	173.6	204.4	182.0	137.2
26935.3	72.5°	13936.7	1153.7	162.4	134.4	120.4	98.0	137.2	168.0	145.6	100.8
18730.6	75°	9016.7	588.0	112.0	86.8	64.4	58.8	100.8	126.0	100.8	61.6
8311.0	77.5°	3449.9	246.4	61.6	39.2	33.6	28.0	56.0	75.6	42.0	14.0
1610.1	80°	663.7	103.6	30.8	19.6	16.8	11.2	8.4	5.6	0.0	0.0
285.6	82.5°	114.8	33.6	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
56.0	85°	39.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.6	87.5°	14.0	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

180°
5200.0
3155.8
1848.1
1503.7
1388.9
1282.5
1181.7
1089.3
999.7
912.9
826.1
756.1
697.3
652.5
610.4
576.8
532.0
495.6
470.4
445.2
428.4
414.4
397.6
378.0
344.4
280.0
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165.2
131.6
95.2
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