

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: P954209

Luminaire Tested: **GALN-SB7C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954209
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-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 47708 lumens
Efficiency: N/A
Efficacy: 136.1 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

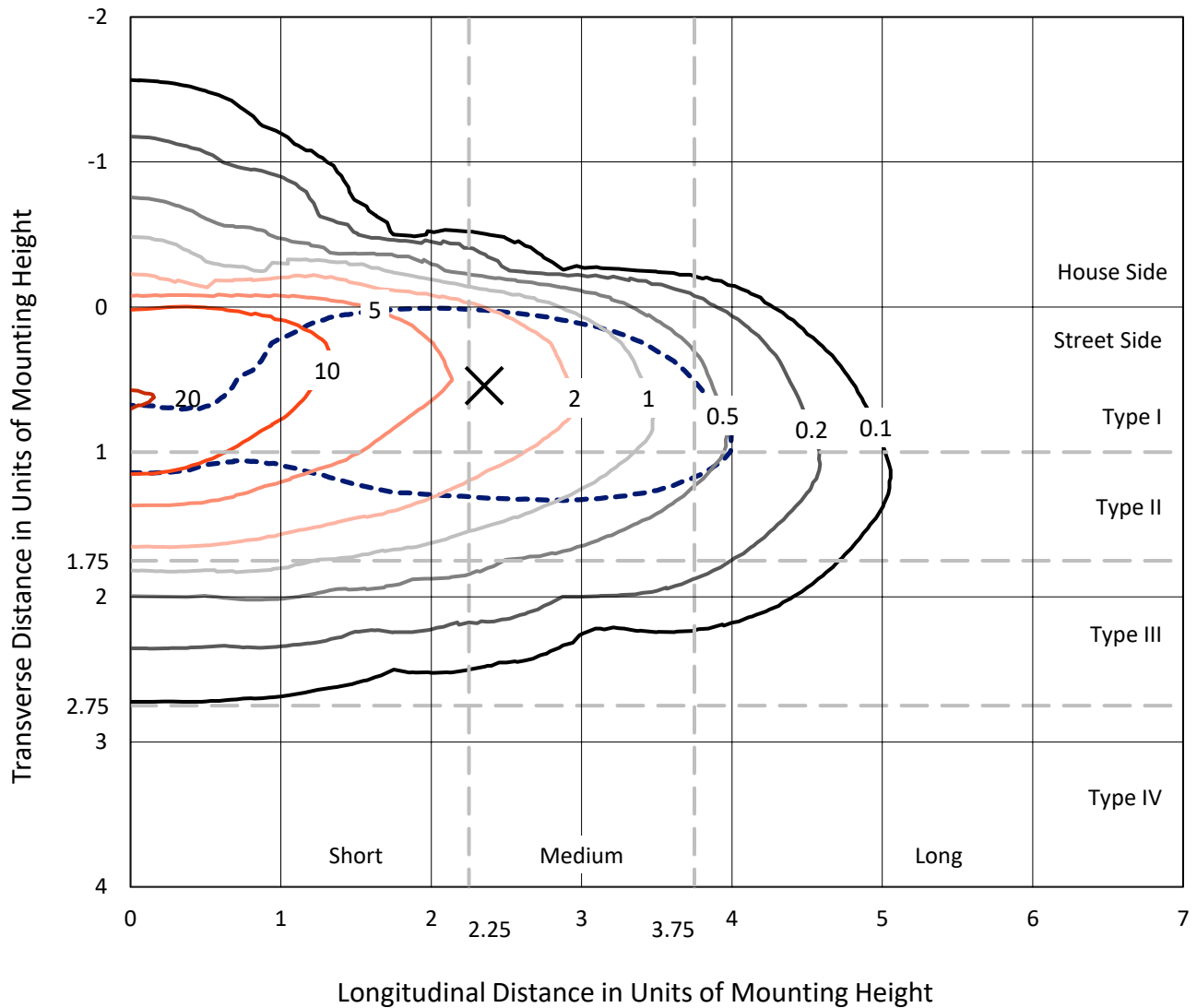
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

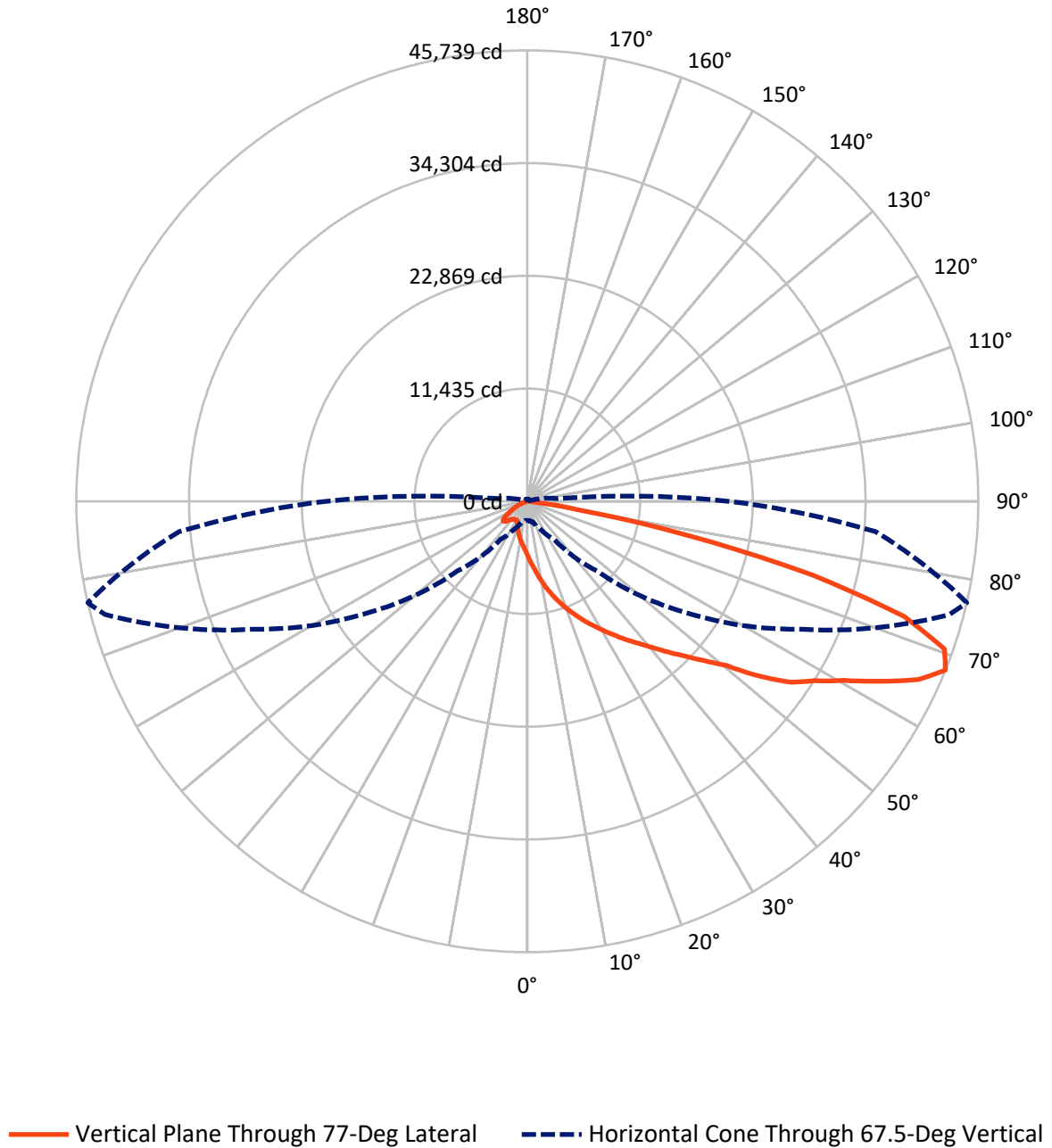
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	3509.9	0.0	3509.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	44198.1	0.0	44198.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	47708.0	0.0	47708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.5	1.2
10°-20°	1966.3	4.1
20°-30°	3794.5	8.0
30°-40°	6587.5	13.8
40°-50°	9564.7	20.0
50°-60°	10983.8	23.0
60°-70°	9536.0	20.0
70°-80°	4491.6	9.4
80°-90°	222.1	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°	47708.0	100.0
0°-180°	47708.0	100.0

Coefficient of Utilization

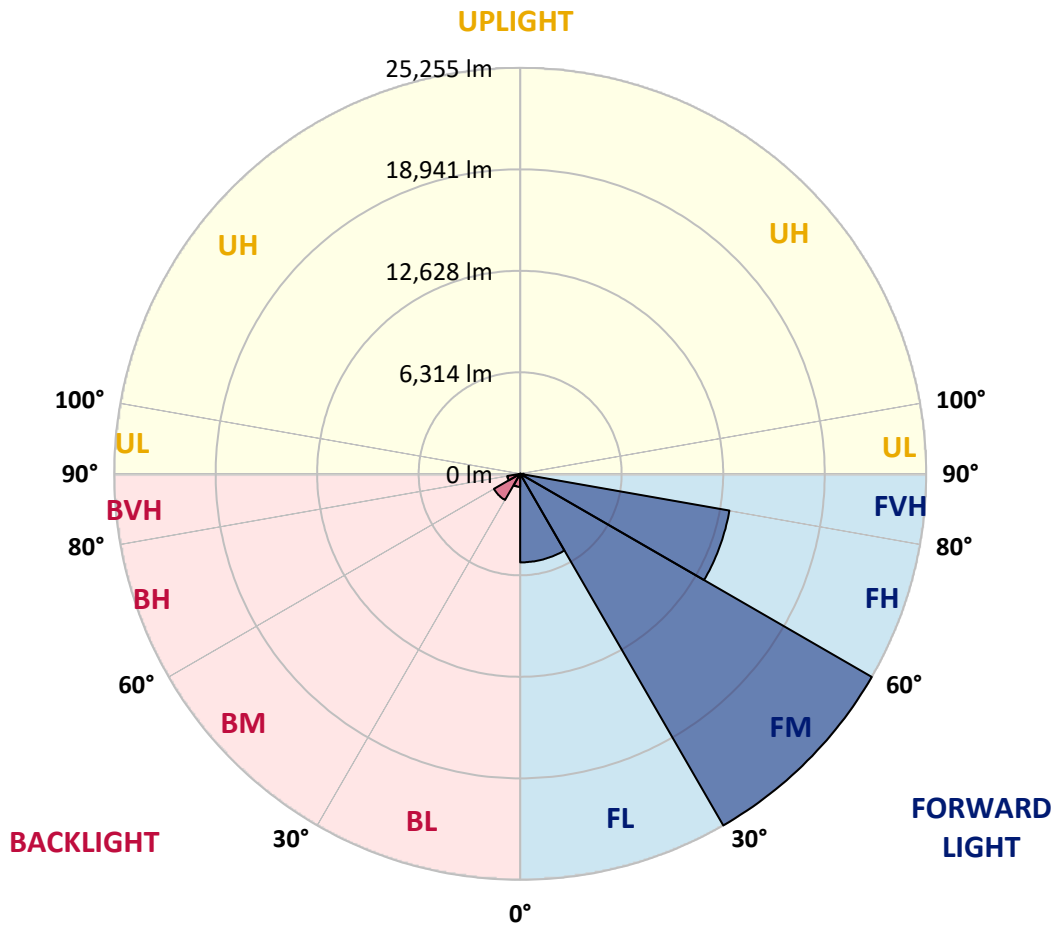


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5509.8	11.5			
FM (30°-60°)	25255.3	52.9			
FH (60°-80°)	13215.0	27.7			G5
FVH (80°-90°)	218.0	0.5			G2/225
BL (0°-30°)	812.6	1.7	B2/1000		
BM (30°-60°)	1880.7	3.9	B2/2500		
BH (60°-80°)	812.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4
2.5°	7616.7	7664.1	7595.9	7465.6	7270.1	7142.7	6831.6	6538.3	6212.4	6108.8
5°	9284.6	9326.1	9249.0	9106.8	8846.1	8597.3	8188.5	7575.2	6938.3	6733.8
7.5°	10520.0	10543.7	10514.0	10383.7	10134.8	9853.4	9397.2	8671.3	7726.3	7501.1
10°	11408.7	11485.8	11476.9	11426.5	11260.6	11032.5	10546.6	9720.1	8609.1	8318.8
12.5°	11998.3	12084.2	12134.6	12247.1	12238.2	12093.1	11666.5	10792.5	9489.0	9148.3
15°	12170.1	12261.9	12454.5	12715.2	12946.3	13020.4	12721.1	11844.2	10457.8	10022.3
17.5°	12072.3	12214.5	12445.6	12857.4	13364.0	13698.8	13666.2	12860.4	11337.6	10839.9
20°	12288.6	12424.9	12605.6	12952.2	13541.8	14149.1	14392.0	13832.1	12211.6	11690.2
22.5°	13485.5	13461.8	13479.5	13535.8	13888.4	14489.8	14990.4	14714.9	13076.6	12543.4
25°	15381.5	15274.8	15094.1	14789.0	14700.1	14990.4	15511.9	15497.0	13989.1	13417.3
27.5°	17556.0	17538.2	17114.6	16379.9	15965.1	15852.5	16101.4	16258.4	14892.7	14282.4
30°	19638.7	19686.1	19114.3	18296.6	17535.3	17093.8	16868.7	16981.3	15811.1	15215.6
32.5°	21451.7	21502.1	20880.0	19923.1	18981.0	18447.7	17973.7	17695.2	16812.4	16163.6
35°	22983.4	23033.7	22319.8	21262.1	20257.8	19774.9	19238.7	18477.4	17819.7	17215.3
37.5°	24352.1	24337.3	23380.4	22313.8	21327.3	20945.1	20663.7	19440.2	18856.6	18272.9
40°	25160.8	25223.1	24405.4	23229.3	22272.4	21993.9	21976.1	20634.1	20053.4	19487.6
42.5°	25397.8	25507.5	24914.9	23949.2	23081.1	22779.0	23244.1	21925.7	21445.8	20894.8
45°	24971.2	25077.9	24808.3	24138.8	23632.2	23436.6	24334.3	23264.8	22933.0	22387.9
47.5°	23727.0	23860.3	23925.5	23783.3	23777.3	23975.8	25311.9	24675.0	24698.7	24141.7
50°	21318.4	21543.6	22142.0	22645.6	23424.8	24402.4	26262.9	26203.7	26689.5	26209.6
52.5°	16939.8	17259.7	19321.7	20699.3	22450.1	24322.4	27308.7	28656.6	30182.3	29480.2
55°	13612.9	13612.9	15289.7	17867.1	20548.2	23795.1	27764.9	30250.5	32561.3	32395.4
57.5°	11097.7	11231.0	12300.5	14578.7	17796.0	22539.0	28046.4	31251.8	34478.0	34356.6
60°	6849.4	7136.8	9157.2	11405.8	14664.6	20302.3	27868.6	32265.0	36803.6	36901.4
62.5°	3857.2	3963.9	4864.5	8206.2	11402.8	17295.3	26508.8	32830.8	39778.0	40192.8
65°	2663.3	2716.6	3063.3	5107.4	7904.1	13769.9	23851.4	32478.3	42758.3	43596.7
67.5°	1934.5	1961.2	2177.5	3119.6	4689.7	9983.8	19686.1	30700.8	44337.3	45738.6
70°	1487.2	1505.0	1662.0	2050.1	2770.0	6162.1	14297.2	27166.5	43193.8	44867.6
72.5°	1208.7	1226.5	1348.0	1516.8	1836.8	3643.9	8665.4	22062.0	38145.6	39952.8
75°	1019.1	1042.8	1152.4	1262.0	1439.8	2340.4	4064.6	15363.7	28686.3	29871.3
77.5°	565.8	521.4	936.2	1045.8	1214.6	1481.3	1901.9	9041.7	16065.8	16394.7
80°	352.5	364.4	743.6	841.4	933.2	746.6	871.0	3481.0	5569.6	5291.1
82.5°	20.7	47.4	571.8	607.3	639.9	320.0	328.8	1182.1	1342.0	1232.4
85°	0.0	0.0	260.7	210.3	222.2	91.8	94.8	275.5	180.7	195.5
87.5°	0.0	0.0	0.0	5.9	0.0	8.9	17.8	23.7	8.9	11.9
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°
5501.4	0°	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4	5501.4
5782.9	2.5°	5575.5	5368.1	4947.4	4535.6	4200.9	3889.8	3667.6	3457.3	3350.6	3344.7
6156.2	5°	5744.4	5308.9	4467.5	3723.9	3125.5	2645.5	2334.5	2112.3	1999.7	1961.2
6615.3	7.5°	5981.4	5326.6	4046.8	3012.9	2307.8	1896.0	1718.3	1647.2	1623.5	1596.8
7133.8	10°	6280.6	5368.1	3670.6	2426.3	1819.0	1611.6	1540.5	1510.9	1493.1	1475.3
7717.4	12.5°	6615.3	5406.6	3297.3	2014.5	1599.8	1493.1	1442.8	1407.2	1383.5	1362.8
8315.8	15°	6941.2	5430.3	2909.2	1727.2	1487.2	1401.3	1348.0	1309.4	1276.9	1253.2
8902.4	17.5°	7264.1	5462.9	2544.8	1555.3	1395.4	1309.4	1256.1	1208.7	1182.1	1155.4
9518.6	20°	7622.6	5457.0	2201.2	1433.9	1303.5	1217.6	1161.3	1116.9	1090.2	1060.6
10170.4	22.5°	7954.4	5427.4	1899.0	1330.2	1208.7	1125.8	1063.6	1019.1	992.5	968.8
10837.0	25°	8336.6	5403.7	1647.2	1235.4	1119.8	1036.9	968.8	927.3	897.6	876.9
11506.5	27.5°	8703.9	5368.1	1463.5	1149.5	1033.9	953.9	888.8	841.4	814.7	799.9
12196.8	30°	9065.4	5359.2	1395.4	1066.5	956.9	876.9	811.7	767.3	746.6	740.6
12955.2	32.5°	9500.9	5382.9	1425.0	1036.9	885.8	805.8	743.6	711.0	690.3	690.3
13799.5	35°	9966.0	5377.0	1469.4	1063.6	838.4	734.7	687.3	666.6	645.8	645.8
14735.7	37.5°	10549.6	5385.9	1505.0	1108.0	820.6	675.5	648.8	622.1	610.3	610.3
15760.7	40°	11420.6	5679.2	1487.2	1146.5	814.7	634.0	580.7	571.8	562.9	562.9
16919.1	42.5°	12487.1	6316.1	1510.9	1149.5	811.7	604.4	533.3	551.0	530.3	527.3
18225.5	45°	13654.3	7012.3	1662.0	1087.3	808.8	589.5	509.6	530.3	497.7	497.7
19739.4	47.5°	14812.7	7702.6	1816.0	998.4	799.9	586.6	488.8	477.0	468.1	471.0
21712.4	50°	16409.5	8265.5	1875.3	876.9	779.1	580.7	450.3	453.3	447.3	453.3
24494.3	52.5°	18148.5	8384.0	1804.2	740.6	719.9	562.9	423.6	435.5	432.5	438.5
26452.5	55°	19232.8	8256.6	1490.2	616.2	628.1	491.8	397.0	420.7	420.7	420.7
28366.3	57.5°	20352.6	7714.4	1057.6	500.7	521.4	402.9	373.3	405.9	402.9	399.9
30671.2	60°	21158.4	6837.5	696.2	411.8	414.8	331.8	346.6	382.2	379.2	364.4
33047.1	62.5°	21759.8	5868.8	447.3	349.6	317.0	299.2	317.0	346.6	334.8	302.2
35061.6	65°	21691.7	4526.8	343.7	299.2	260.7	260.7	275.5	302.2	266.6	213.3
35446.8	67.5°	20426.7	3063.3	284.4	251.8	219.2	216.3	228.1	251.8	228.1	180.7
33473.7	70°	18166.3	2002.7	228.1	195.5	174.8	160.0	183.7	216.3	192.6	145.2
28496.7	72.5°	14744.6	1220.6	171.8	142.2	127.4	103.7	145.2	177.8	154.1	106.7
19816.4	75°	9539.4	622.1	118.5	91.8	68.1	62.2	106.7	133.3	106.7	65.2
8792.8	77.5°	3649.8	260.7	65.2	41.5	35.6	29.6	59.3	80.0	44.4	14.8
1703.5	80°	702.1	109.6	32.6	20.7	17.8	11.9	8.9	5.9	0.0	0.0
302.2	82.5°	121.5	35.6	11.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
59.3	85°	41.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.7	87.5°	14.8	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>
5501.4
3338.8
1955.3
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1250.2
1152.4
1057.6
965.8
873.9
799.9
737.7
690.3
645.8
610.3
562.9
524.4
497.7
471.0
453.3
438.5
420.7
399.9
364.4
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