

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: P941814

Luminaire Tested: **GALN-SB5C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29226 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

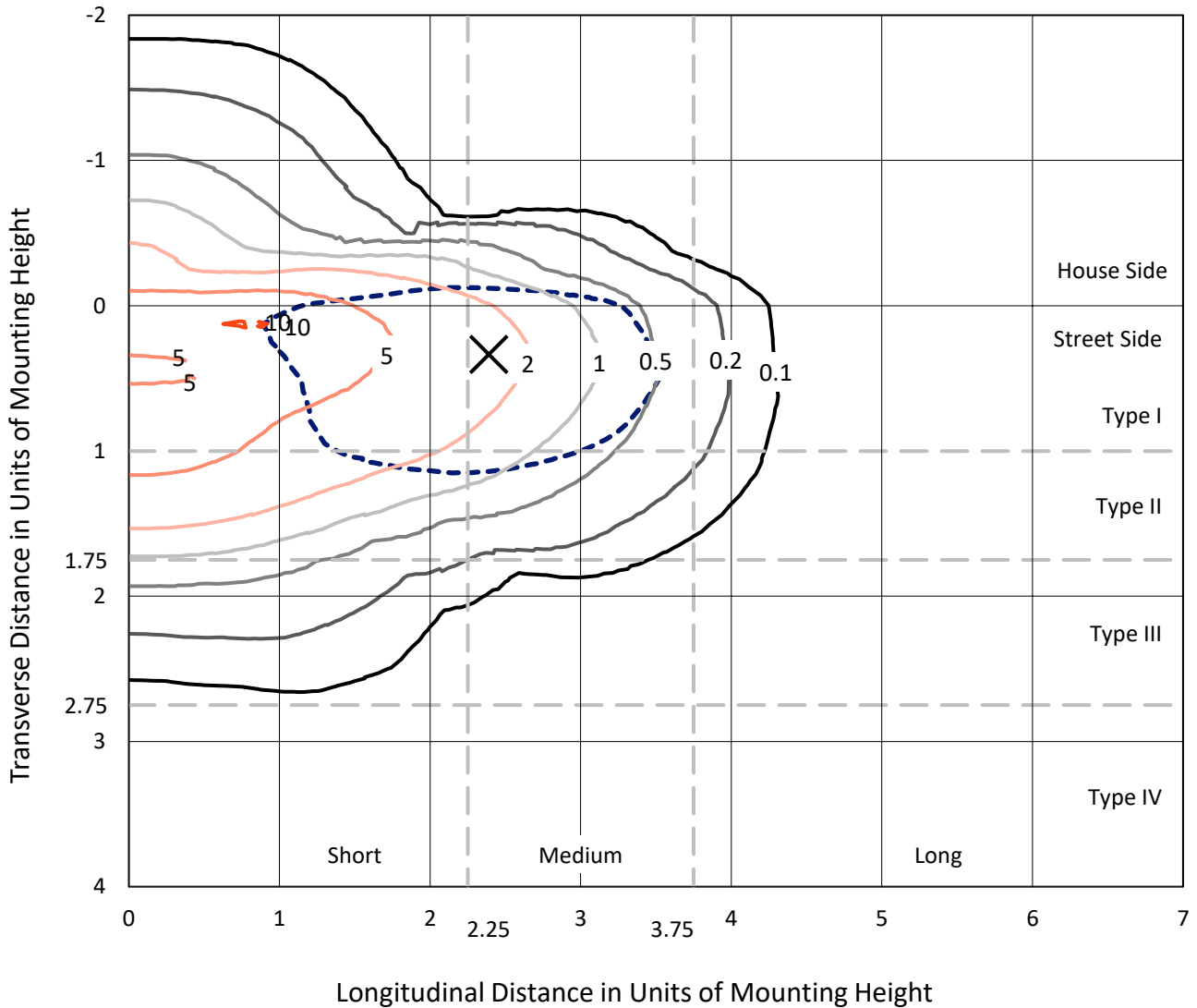
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

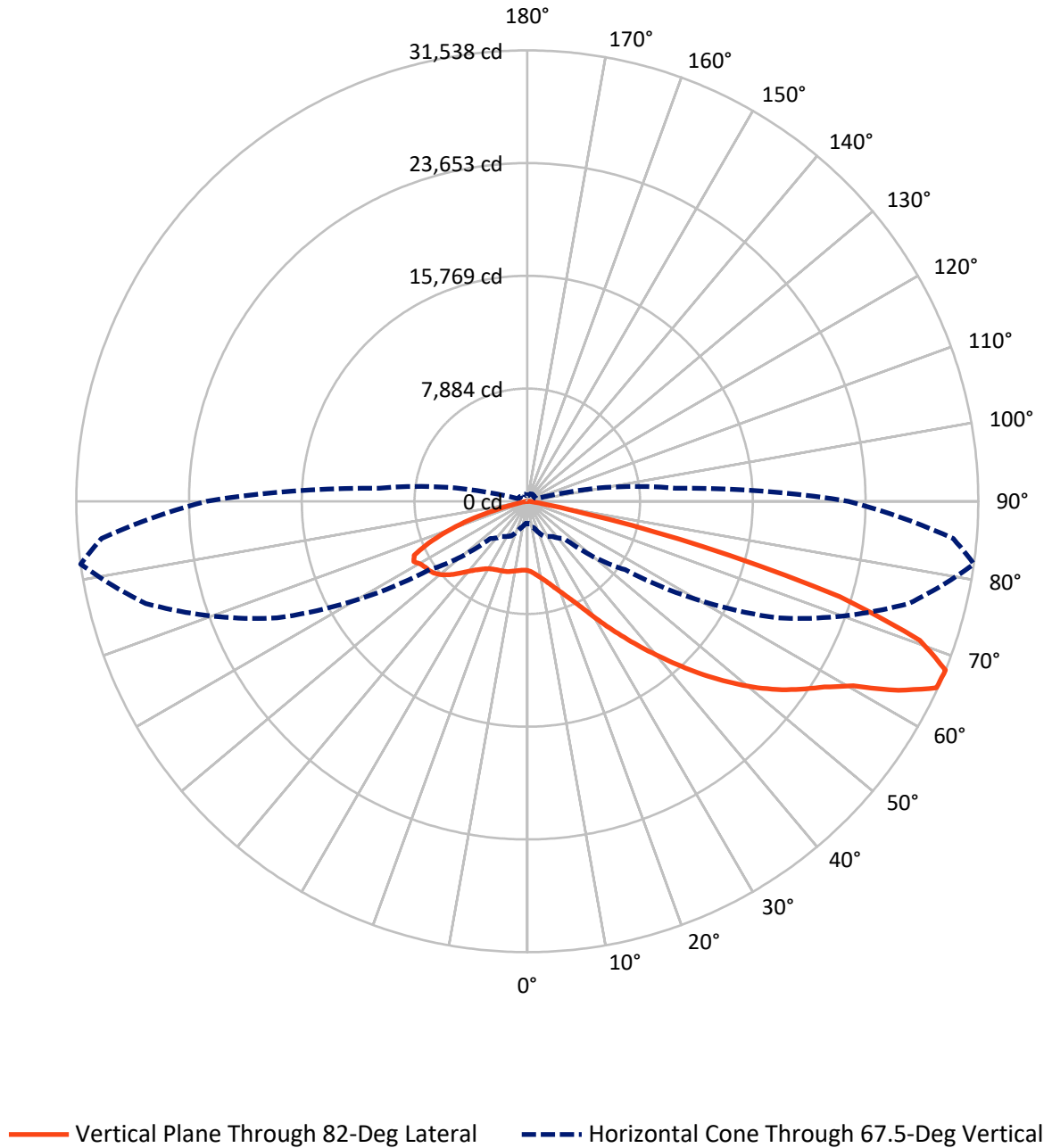
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	5294.0	0.0	5294.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23932.0	0.0	23932.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	29226.0	0.0	29226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	1.5
10°-20°	1120.9	3.8
20°-30°	1795.4	6.1
30°-40°	3174.8	10.9
40°-50°	5562.6	19.0
50°-60°	7418.9	25.4
60°-70°	6906.6	23.6
70°-80°	2650.8	9.1
80°-90°	164.6	0.6
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°	29226.0	100.0
0°-180°	29226.0	100.0

Coefficient of Utilization



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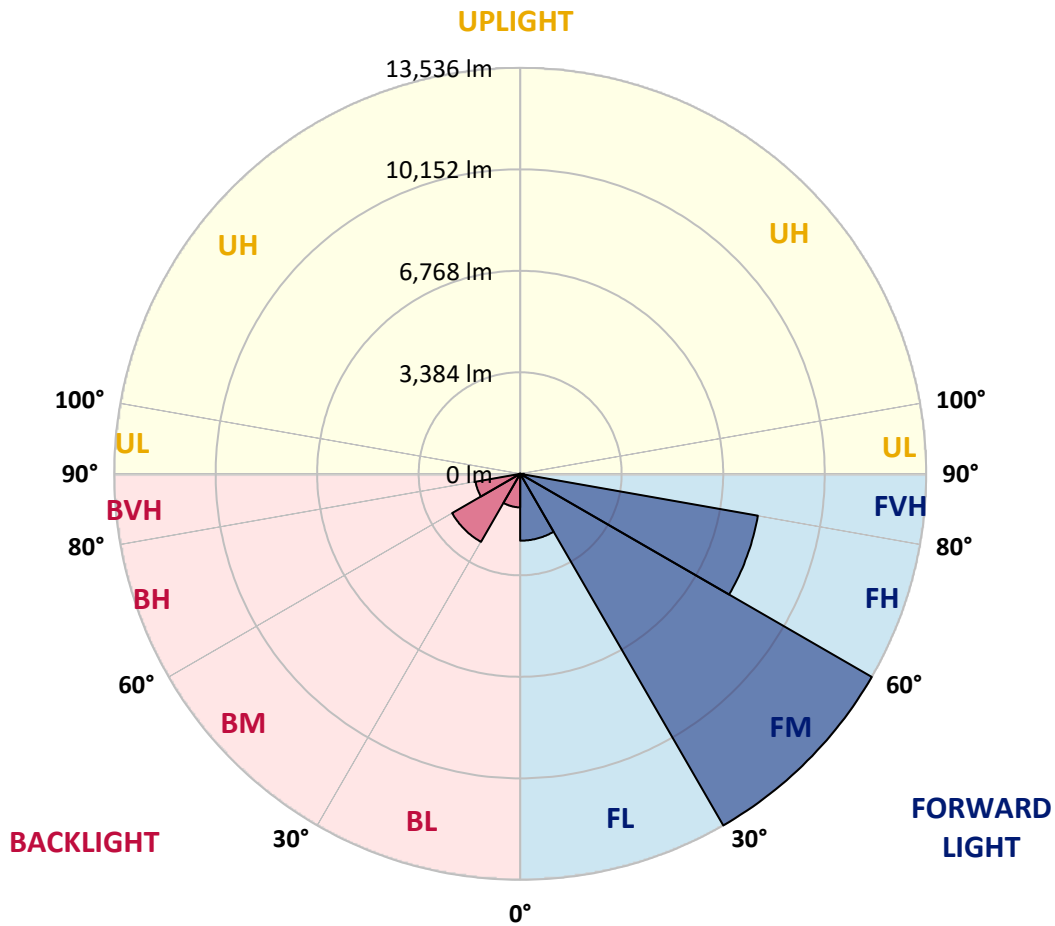
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.6	7.6			
FM (30°-60°)	13536.3	46.3			
FH (60°-80°)	8046.4	27.5			G4/12000
FVH (80°-90°)	119.7	0.4			G2/225
BL (0°-30°)	1118.1	3.8	B3/2500		
BM (30°-60°)	2620.0	9.0	B3/5000		
BH (60°-80°)	1511.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	44.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8
2.5°	5117.4	5146.9	5130.0	5121.6	5106.9	5085.8	5069.0	5016.4	4961.7	4925.9
5°	5220.5	5250.0	5247.9	5256.3	5266.8	5273.1	5268.9	5210.0	5132.1	5071.1
7.5°	5132.1	5165.8	5193.2	5235.2	5308.9	5386.7	5424.6	5412.0	5332.0	5247.9
10°	4881.7	4917.5	4982.7	5081.6	5237.3	5405.7	5546.7	5611.9	5561.4	5468.8
12.5°	4423.0	4458.8	4587.2	4801.8	5062.7	5355.2	5624.5	5799.2	5811.8	5719.2
15°	3907.5	3943.3	4080.0	4349.4	4747.1	5216.3	5666.6	5997.0	6108.5	6028.5
17.5°	3587.7	3619.2	3722.3	3939.1	4353.6	4938.6	5651.9	6207.4	6462.0	6398.9
20°	3490.9	3518.2	3566.6	3718.1	4063.2	4650.3	5555.1	6405.2	6842.9	6807.1
22.5°	3594.0	3619.2	3633.9	3701.3	3918.0	4460.9	5433.0	6607.2	7284.7	7288.9
25°	3831.7	3857.0	3840.2	3882.2	3976.9	4402.0	5386.7	6845.0	7840.2	7886.5
27.5°	4223.1	4225.2	4185.2	4183.1	4197.9	4490.4	5435.1	7099.6	8540.9	8627.2
30°	5008.0	4976.4	4822.8	4656.6	4580.8	4755.5	5569.8	7400.5	9367.9	9521.5
32.5°	6217.9	6171.6	5889.6	5492.0	5092.2	5182.6	5811.8	7743.4	10268.5	10546.2
35°	7530.9	7518.3	7223.7	6632.4	5933.8	5790.8	6205.3	8193.7	11251.1	11693.0
37.5°	8751.4	8745.0	8576.7	7880.2	7030.1	6638.7	6836.5	8782.9	12303.2	12942.9
40°	9866.6	9885.5	9717.2	9094.3	8237.9	7726.6	7695.1	9511.0	13473.2	14304.3
42.5°	10830.3	10851.3	10680.9	10220.1	9431.0	8930.2	8749.3	10403.2	14615.8	15766.8
45°	11484.7	11615.2	11589.9	11221.7	10655.7	10135.9	10016.0	11522.6	15918.3	17317.5
47.5°	11669.9	11789.8	11979.2	12029.7	11684.6	11173.3	11316.4	12871.4	17235.5	18870.4
50°	11213.3	11324.8	11718.3	12242.2	12482.1	12324.3	12581.0	14317.0	18584.3	20419.1
52.5°	10312.7	10426.3	10922.9	11751.9	12730.4	13227.0	13849.8	15741.5	19891.0	21885.8
55°	9010.2	9130.1	9767.7	10706.2	12257.0	13599.4	14908.2	17163.9	21088.3	23205.1
57.5°	7238.4	7326.8	7989.6	9302.7	11066.0	13229.1	15688.9	18716.8	22216.1	24501.3
60°	4717.6	4795.5	5565.6	7030.1	9092.2	11991.8	15844.6	20448.6	23714.3	26186.7
62.5°	3137.4	3190.0	3646.6	4721.8	6403.1	9616.2	14933.5	21831.1	25911.1	29120.0
65°	2152.6	2205.2	2661.8	3410.9	4136.9	6361.0	12313.8	21648.0	27901.7	31449.3
67.5°	1536.1	1580.3	1967.4	2674.4	2994.3	3695.0	8347.4	19308.1	27615.5	31537.7
70°	1100.5	1125.7	1445.6	2083.2	2379.8	2219.9	4641.9	14767.3	24179.3	29122.1
72.5°	770.1	778.6	1003.7	1586.6	1916.9	1620.2	2209.4	9845.5	18287.6	22857.9
75°	521.8	532.4	675.4	1163.6	1538.2	1237.3	1169.9	5279.4	10735.6	12652.5
77.5°	319.8	324.0	435.6	795.4	1151.0	942.7	753.3	2236.8	4153.7	4077.9
80°	181.0	181.0	277.8	494.5	784.9	608.1	528.2	951.1	1315.1	1155.2
82.5°	101.0	103.1	202.0	307.2	519.7	359.8	290.4	439.8	568.1	502.9
85°	42.1	46.3	124.1	145.2	248.3	178.9	117.8	185.2	210.4	187.3
87.5°	4.2	6.3	37.9	27.4	29.5	35.8	16.8	35.8	29.5	29.5
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°
4841.8	0°	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8
4913.3	2.5°	4873.3	4841.8	4761.8	4669.2	4547.2	4488.3	4408.3	4353.6	4307.3	4311.5
5035.3	5°	4968.0	4888.1	4709.2	4486.1	4208.4	4010.6	3800.2	3655.0	3537.2	3511.9
5203.7	7.5°	5098.5	4972.2	4658.7	4256.8	3787.6	3431.9	3114.2	2910.1	2764.9	2718.6
5407.8	10°	5266.8	5083.7	4593.5	3968.5	3293.1	2840.7	2499.8	2339.9	2241.0	2207.3
5647.7	12.5°	5462.5	5212.1	4507.2	3617.1	2783.9	2348.3	2131.6	2051.6	2020.0	2009.5
5942.3	15°	5708.7	5372.0	4376.7	3200.5	2352.5	2047.4	1954.8	1944.3	1948.5	1944.3
6295.8	17.5°	6001.2	5546.7	4164.2	2771.2	2062.1	1893.8	1860.1	1868.5	1879.0	1876.9
6691.3	20°	6321.0	5719.2	3892.8	2390.4	1864.3	1784.4	1765.4	1773.8	1782.3	1778.0
7148.0	22.5°	6685.0	5904.4	3591.9	2093.7	1731.8	1683.4	1662.3	1664.4	1664.4	1656.0
7726.6	25°	7120.6	6108.5	3276.2	1883.3	1630.8	1592.9	1567.6	1559.2	1546.6	1521.3
8429.4	27.5°	7640.3	6325.2	2973.2	1736.0	1550.8	1515.0	1485.6	1464.5	1433.0	1390.9
9273.2	30°	8225.3	6588.2	2716.5	1643.4	1487.7	1451.9	1418.2	1386.7	1340.4	1287.8
10243.2	32.5°	8913.4	6870.2	2529.2	1582.4	1430.9	1393.0	1353.0	1315.1	1264.6	1212.0
11333.2	35°	9734.0	7211.1	2419.8	1540.3	1386.7	1336.2	1292.0	1249.9	1212.0	1165.7
12517.9	37.5°	10624.1	7573.0	2386.2	1519.2	1357.2	1279.4	1228.9	1199.4	1195.2	1167.8
13799.3	40°	11598.3	8002.3	2411.4	1506.6	1325.6	1224.6	1169.9	1163.6	1174.1	1125.7
15169.2	42.5°	12629.4	8511.5	2453.5	1491.9	1281.5	1169.9	1117.3	1117.3	1108.9	1041.6
16616.9	45°	13744.6	9098.6	2495.6	1456.1	1228.9	1115.2	1075.2	1060.5	1024.7	959.5
18073.0	47.5°	14868.3	9696.1	2527.1	1390.9	1165.7	1068.9	1033.2	999.5	946.9	888.0
19501.7	50°	15935.1	10232.7	2493.5	1294.1	1094.2	1024.7	986.9	940.6	883.8	843.8
20854.7	52.5°	16888.3	10697.7	2350.4	1180.5	1018.4	978.5	944.8	896.4	850.1	808.0
22075.1	55°	17717.3	11074.4	2097.9	1073.1	951.1	938.5	904.8	843.8	780.7	744.9
23285.1	57.5°	18512.7	11360.6	1782.3	984.8	890.1	894.3	843.8	789.1	730.2	692.3
24915.8	60°	19571.1	11743.5	1462.4	902.7	824.8	837.5	782.8	742.8	669.1	620.7
27712.3	62.5°	21262.9	12339.0	1161.5	801.7	749.1	753.3	730.2	681.8	593.4	536.6
29784.9	65°	22605.4	12120.2	915.3	692.3	662.8	669.1	669.1	616.5	521.8	456.6
29896.4	67.5°	22453.9	10377.9	730.2	585.0	580.8	585.0	599.7	555.5	462.9	410.3
27619.7	70°	20684.3	8254.8	585.0	486.1	505.0	494.5	536.6	507.1	416.6	364.0
21412.3	72.5°	16877.8	5946.5	446.1	401.9	387.2	404.0	484.0	456.6	347.2	288.3
11341.6	75°	9862.4	3173.1	332.5	317.7	279.9	336.7	429.3	389.3	265.1	212.5
3476.1	77.5°	3211.0	1106.8	244.1	233.6	208.3	271.4	366.1	328.3	216.7	168.3
1018.4	80°	860.6	334.6	166.2	153.6	134.7	202.0	290.4	260.9	155.7	109.4
437.7	82.5°	345.1	141.0	96.8	86.3	73.6	138.9	229.4	210.4	115.7	69.4
136.8	85°	111.5	46.3	35.8	27.4	33.7	86.3	136.8	143.1	82.1	35.8
21.0	87.5°	14.7	6.3	6.3	8.4	6.3	14.7	42.1	40.0	23.1	4.2
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>
4841.8
4269.4
3455.1
2672.3
2182.1
2003.2
1942.2
1872.7
1775.9
1651.8
1517.1
1386.7
1283.6
1214.1
1161.5
1165.7
1127.9
1041.6
957.4
885.9
837.5
803.8
740.7
688.1
614.4
532.4
450.3
401.9
357.7
282.0
206.2
162.0
107.3
69.4
27.4
0.0
0.0

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