

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: P941644

Luminaire Tested: **GALN-SB5B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941644
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-SB5B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA 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: 21975 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

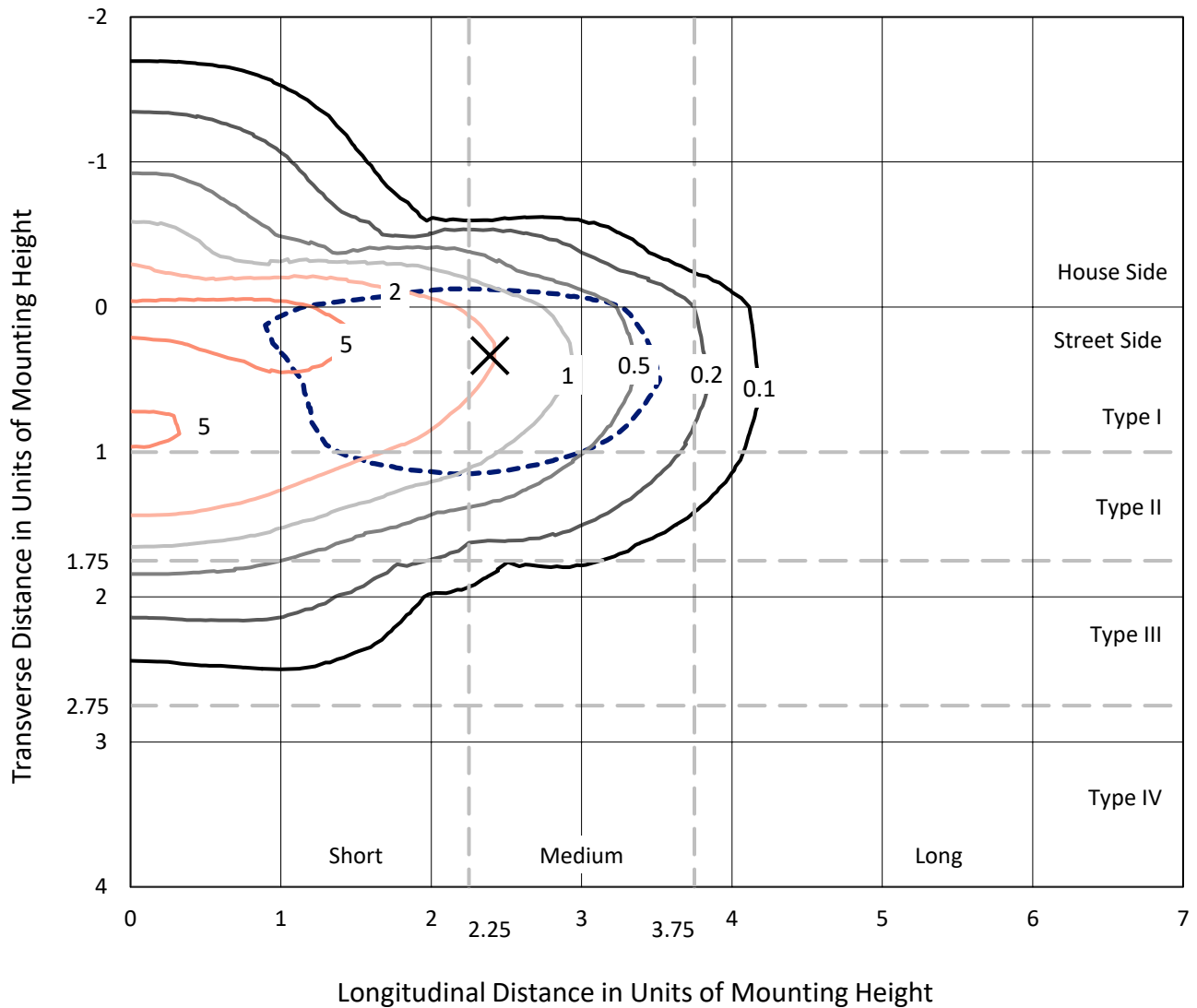
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941644
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Iso-Footcandle Lines of Horizontal Illumination

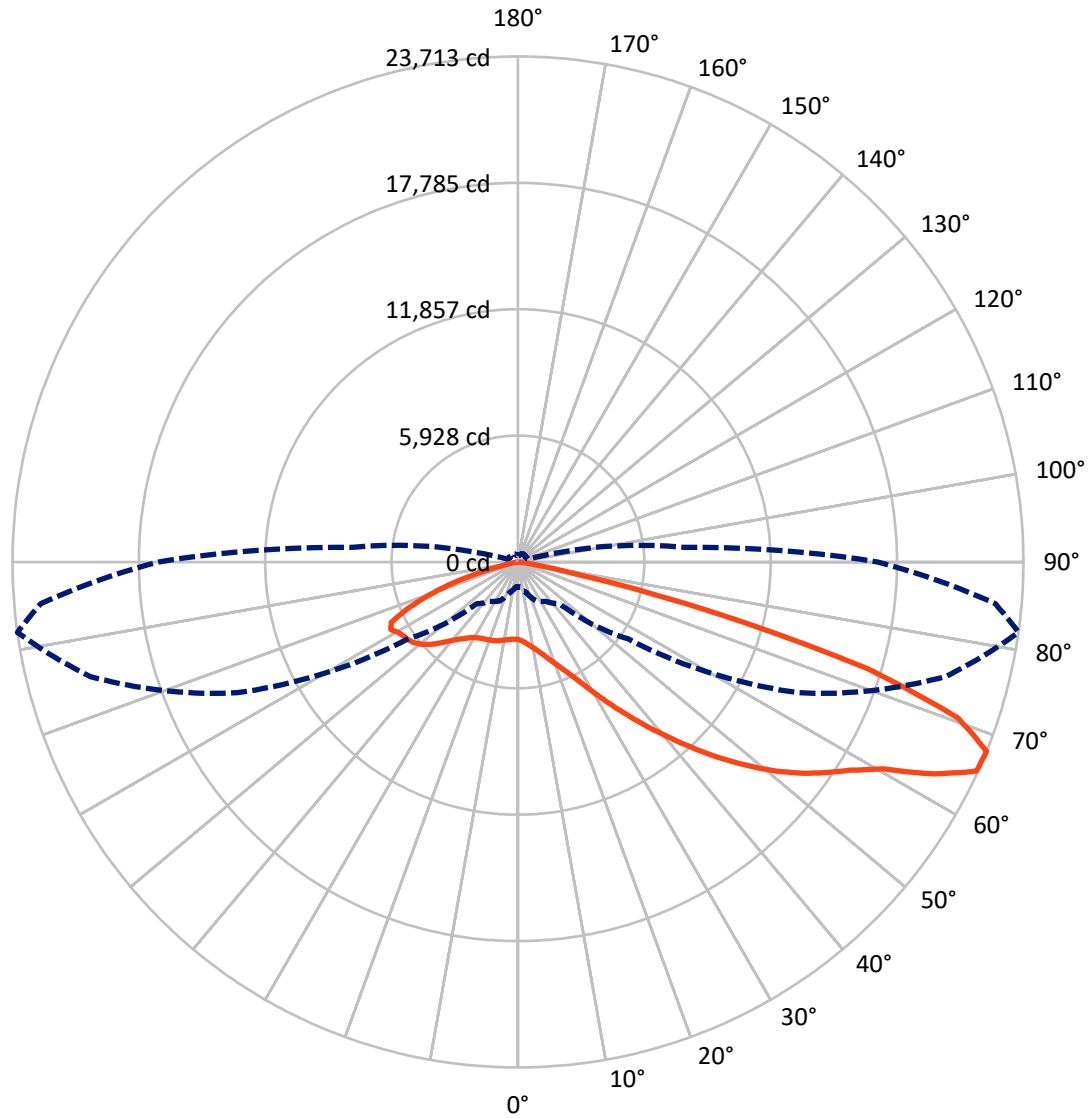
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P941644
CATALOG NUMBER: GALN-SB5B-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941644

CATALOG NUMBER: GALN-SB5B-740-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3980.6	0.0	3980.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17994.4	0.0	17994.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	21975.0	0.0	21975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	1.5
10°-20°	842.8	3.8
20°-30°	1350.0	6.1
30°-40°	2387.1	10.9
40°-50°	4182.5	19.0
50°-60°	5578.3	25.4
60°-70°	5193.1	23.6
70°-80°	1993.1	9.1
80°-90°	123.8	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°	21975.0	100.0
0°-180°	21975.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941644

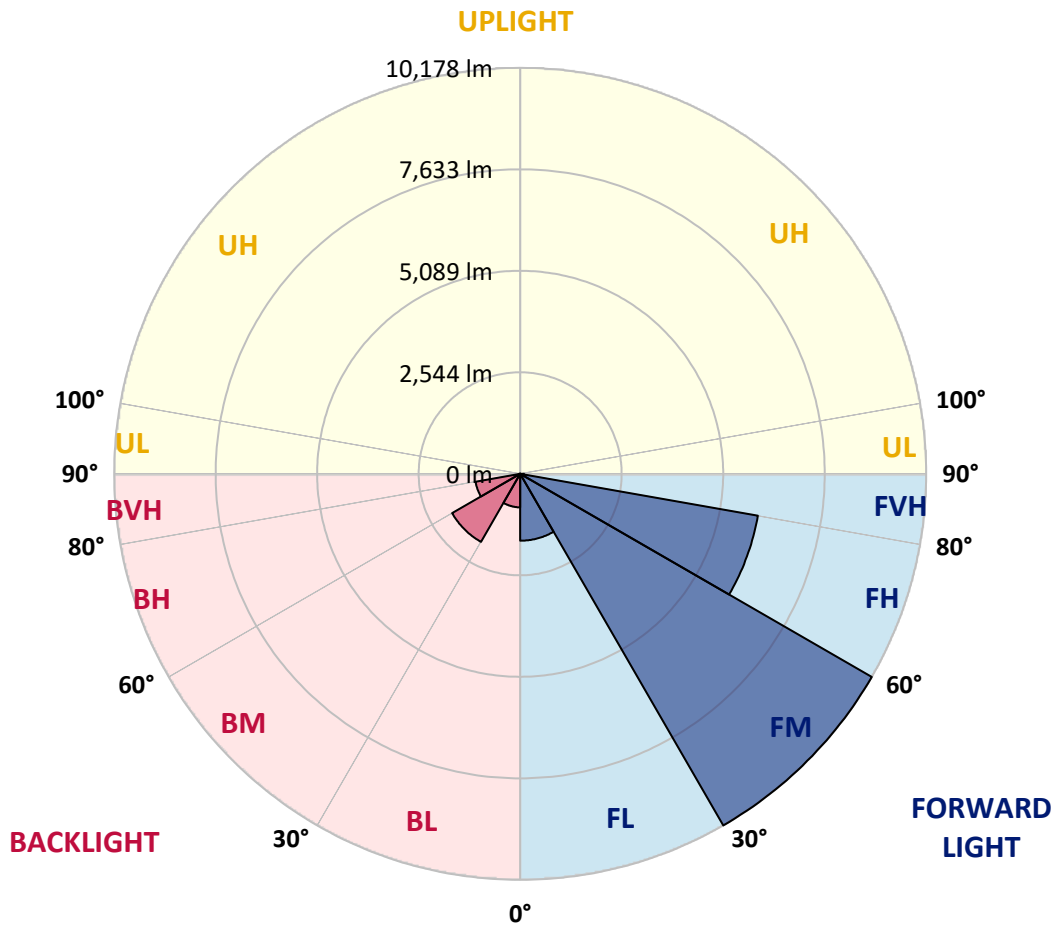
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.4	7.6			
FM (30°-60°)	10177.9	46.3			
FH (60°-80°)	6050.1	27.5			G3/7500
FVH (80°-90°)	90.0	0.4			G1/100
BL (0°-30°)	840.7	3.8	B2/1000		
BM (30°-60°)	1970.0	9.0	B2/2500		
BH (60°-80°)	1136.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.8	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-G3

Type II Medium



REPORT NUMBER: P941644

CATALOG NUMBER: GALN-SB5B-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5
2.5°	3847.8	3869.9	3857.3	3850.9	3839.9	3824.0	3811.4	3771.8	3730.7	3703.8
5°	3925.3	3947.4	3945.9	3952.2	3960.1	3964.9	3961.7	3917.4	3858.8	3813.0
7.5°	3858.8	3884.2	3904.7	3936.4	3991.7	4050.3	4078.8	4069.3	4009.2	3945.9
10°	3670.6	3697.5	3746.5	3820.9	3938.0	4064.5	4170.5	4219.6	4181.6	4112.0
12.5°	3325.7	3352.6	3449.1	3610.5	3806.6	4026.6	4229.1	4360.4	4369.9	4300.3
15°	2938.0	2964.9	3067.8	3270.3	3569.3	3922.1	4260.7	4509.1	4593.0	4532.8
17.5°	2697.6	2721.3	2798.8	2961.8	3273.5	3713.3	4249.6	4667.3	4858.8	4811.3
20°	2624.8	2645.3	2681.7	2795.6	3055.1	3496.5	4176.9	4816.0	5145.1	5118.2
22.5°	2702.3	2721.3	2732.4	2783.0	2946.0	3354.1	4085.1	4967.9	5477.4	5480.5
25°	2881.1	2900.1	2887.4	2919.1	2990.3	3309.8	4050.3	5146.7	5895.1	5929.9
27.5°	3175.4	3176.9	3146.9	3145.3	3156.4	3376.3	4086.7	5338.2	6421.9	6486.8
30°	3765.5	3741.8	3626.3	3501.3	3444.3	3575.6	4187.9	5564.4	7043.7	7159.2
32.5°	4675.2	4640.4	4428.4	4129.4	3828.8	3896.8	4369.9	5822.3	7720.9	7929.7
35°	5662.5	5653.0	5431.5	4986.9	4461.6	4354.1	4665.7	6160.9	8459.7	8792.0
37.5°	6580.1	6575.4	6448.8	5925.1	5285.9	4991.7	5140.4	6603.9	9250.8	9731.8
40°	7418.7	7432.9	7306.3	6838.0	6194.1	5809.6	5785.9	7151.3	10130.5	10755.4
42.5°	8143.3	8159.1	8031.0	7684.5	7091.2	6714.6	6578.6	7822.1	10989.6	11855.0
45°	8635.3	8733.4	8714.5	8437.6	8012.0	7621.2	7531.0	8663.8	11968.9	13021.0
47.5°	8774.6	8864.8	9007.1	9045.1	8785.6	8401.2	8508.8	9678.0	12959.3	14188.7
50°	8431.2	8515.1	8811.0	9204.9	9385.3	9266.6	9459.6	10764.9	13973.5	15353.1
52.5°	7754.1	7839.5	8212.9	8836.3	9572.0	9945.4	10413.7	11836.0	14956.0	16455.9
55°	6774.7	6864.9	7344.3	8049.9	9216.0	10225.4	11209.5	12905.6	15856.2	17447.9
57.5°	5442.6	5509.0	6007.4	6994.7	8320.5	9946.9	11796.5	14073.2	16704.3	18422.5
60°	3547.2	3605.7	4184.8	5285.9	6836.4	9016.6	11913.5	15375.3	17830.8	19689.8
62.5°	2359.0	2398.5	2741.9	3550.3	4814.5	7230.4	11228.5	16414.7	19482.5	21895.3
65°	1618.5	1658.1	2001.4	2564.7	3110.5	4782.8	9258.7	16277.1	20979.2	23646.7
67.5°	1155.0	1188.2	1479.3	2010.9	2251.4	2778.2	6276.4	14517.8	20764.1	23713.2
70°	827.5	846.4	1086.9	1566.3	1789.4	1669.2	3490.2	11103.5	18180.4	21896.9
72.5°	579.1	585.4	754.7	1192.9	1441.3	1218.3	1661.3	7402.9	13750.4	17186.8
75°	392.4	400.3	507.9	874.9	1156.5	930.3	879.7	3969.6	8072.1	9513.4
77.5°	240.5	243.7	327.5	598.1	865.4	708.8	566.4	1681.8	3123.2	3066.2
80°	136.1	136.1	208.8	371.8	590.1	457.2	397.1	715.1	988.8	868.6
82.5°	75.9	77.5	151.9	231.0	390.8	270.5	218.3	330.7	427.2	378.1
85°	31.6	34.8	93.3	109.2	186.7	134.5	88.6	139.2	158.2	140.8
87.5°	3.2	4.7	28.5	20.6	22.2	26.9	12.7	26.9	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941644
 CATALOG NUMBER: GALN-SB5B-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3640.5	0°	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5
3694.3	2.5°	3664.2	3640.5	3580.4	3510.8	3419.0	3374.7	3314.6	3273.5	3238.6	3241.8
3786.1	5°	3735.4	3675.3	3540.8	3373.1	3164.3	3015.6	2857.4	2748.2	2659.6	2640.6
3912.6	7.5°	3833.5	3738.6	3502.9	3200.7	2847.9	2580.5	2341.6	2188.1	2078.9	2044.1
4066.1	10°	3960.1	3822.5	3453.8	2983.9	2476.1	2135.9	1879.6	1759.3	1685.0	1659.7
4246.5	12.5°	4107.2	3919.0	3389.0	2719.7	2093.2	1765.7	1602.7	1542.6	1518.9	1510.9
4468.0	15°	4292.4	4039.2	3290.9	2406.4	1768.8	1539.4	1469.8	1461.9	1465.1	1461.9
4733.8	17.5°	4512.3	4170.5	3131.1	2083.7	1550.5	1423.9	1398.6	1404.9	1412.9	1411.3
5031.2	20°	4752.8	4300.3	2927.0	1797.3	1401.8	1341.7	1327.4	1333.7	1340.1	1336.9
5374.5	22.5°	5026.5	4439.5	2700.7	1574.2	1302.1	1265.7	1249.9	1251.5	1251.5	1245.1
5809.6	25°	5354.0	4593.0	2463.4	1416.0	1226.2	1197.7	1178.7	1172.4	1162.9	1143.9
6338.1	27.5°	5744.8	4755.9	2235.6	1305.3	1166.0	1139.1	1117.0	1101.2	1077.4	1045.8
6972.5	30°	6184.6	4953.7	2042.5	1235.7	1118.6	1091.7	1066.4	1042.6	1007.8	968.3
7701.9	32.5°	6702.0	5165.7	1901.7	1189.8	1075.9	1047.4	1017.3	988.8	950.9	911.3
8521.4	35°	7319.0	5422.0	1819.5	1158.1	1042.6	1004.7	971.4	939.8	911.3	876.5
9412.2	37.5°	7988.2	5694.1	1794.2	1142.3	1020.5	961.9	924.0	901.8	898.7	878.1
10375.7	40°	8720.8	6016.9	1813.1	1132.8	996.8	920.8	879.7	874.9	882.8	846.4
11405.7	42.5°	9496.0	6399.8	1844.8	1121.7	963.5	879.7	840.1	840.1	833.8	783.2
12494.2	45°	10334.6	6841.2	1876.4	1094.8	924.0	838.5	808.5	797.4	770.5	721.5
13589.0	47.5°	11179.4	7290.5	1900.2	1045.8	876.5	803.7	776.8	751.5	712.0	667.7
14663.3	50°	11981.6	7694.0	1874.8	973.0	822.7	770.5	742.0	707.2	664.5	634.4
15680.6	52.5°	12698.3	8043.6	1767.3	887.6	765.8	735.7	710.4	674.0	639.2	607.5
16598.3	55°	13321.7	8326.8	1577.4	806.9	715.1	705.6	680.3	634.4	587.0	560.1
17508.0	57.5°	13919.7	8542.0	1340.1	740.4	669.2	672.4	634.4	593.3	549.0	520.5
18734.2	60°	14715.5	8829.9	1099.6	678.7	620.2	629.7	588.6	558.5	503.1	466.7
20836.8	62.5°	15987.6	9277.7	873.3	602.8	563.2	566.4	549.0	512.6	446.2	403.4
22395.3	65°	16997.0	9113.2	688.2	520.5	498.4	503.1	503.1	463.6	392.4	343.3
22479.1	67.5°	16883.1	7803.1	549.0	439.8	436.7	439.8	450.9	417.7	348.1	308.5
20767.2	70°	15552.5	6206.8	439.8	365.5	379.7	371.8	403.4	381.3	313.3	273.7
16099.9	72.5°	12690.4	4471.1	335.4	302.2	291.1	303.8	363.9	343.3	261.1	216.8
8527.8	75°	7415.5	2385.9	250.0	238.9	210.4	253.1	322.8	292.7	199.4	159.8
2613.7	77.5°	2414.4	832.2	183.5	175.6	156.6	204.1	275.3	246.8	163.0	126.6
765.8	80°	647.1	251.6	125.0	115.5	101.3	151.9	218.3	196.2	117.1	82.3
329.1	82.5°	259.5	106.0	72.8	64.9	55.4	104.4	172.5	158.2	87.0	52.2
102.8	85°	83.9	34.8	26.9	20.6	25.3	64.9	102.8	107.6	61.7	26.9
15.8	87.5°	11.1	4.7	4.7	6.3	4.7	11.1	31.6	30.1	17.4	3.2
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>
3640.5
3210.2
2597.9
2009.3
1640.7
1506.2
1460.3
1408.1
1335.3
1242.0
1140.7
1042.6
965.1
912.9
873.3
876.5
848.0
783.2
719.9
666.1
629.7
604.4
556.9
517.4
462.0
400.3
338.6
302.2
269.0
212.0
155.1
121.8
80.7
52.2
20.6
0.0
0.0

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