

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: P953203

Luminaire Tested: **GALN-SB6D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41009 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

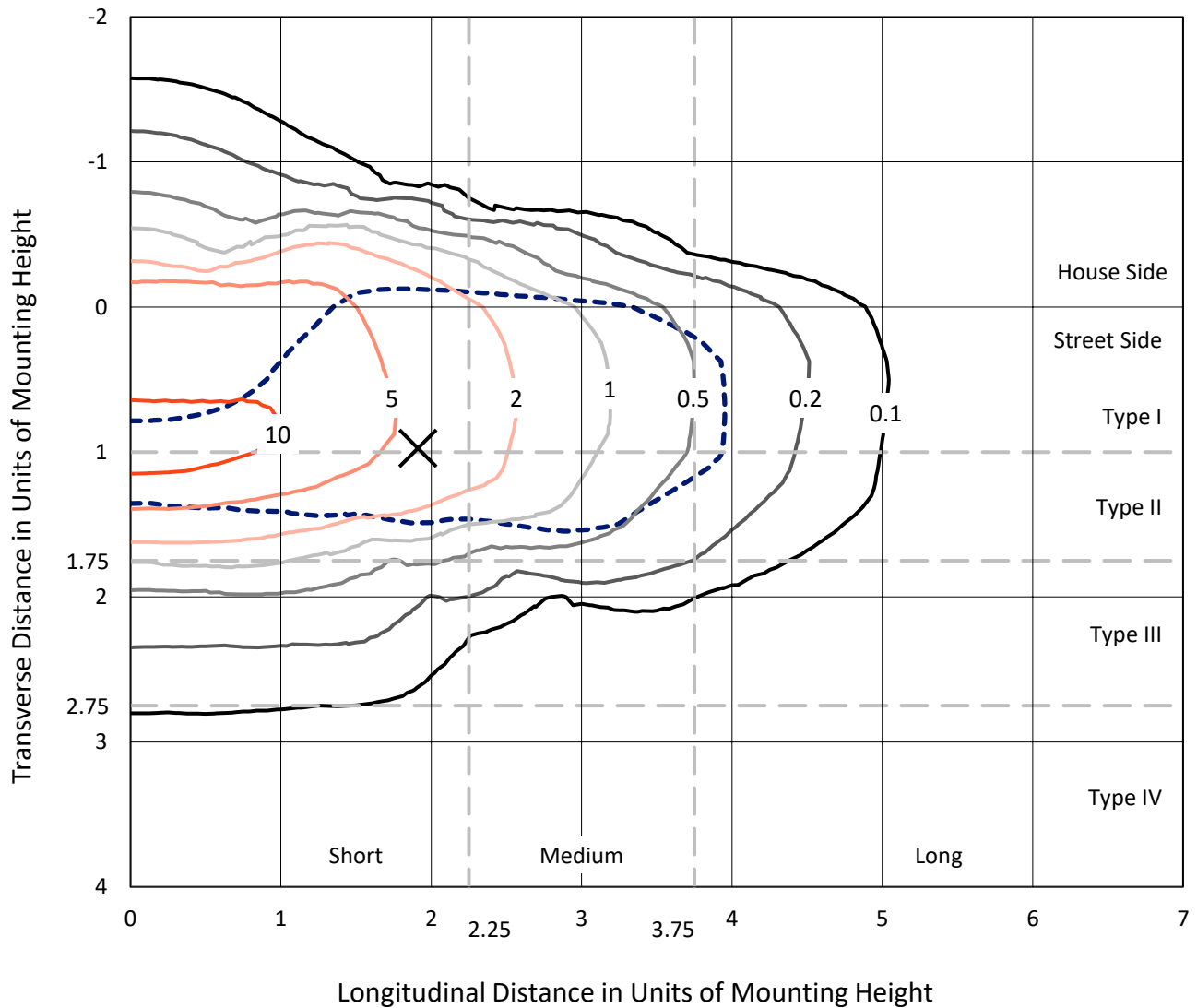
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

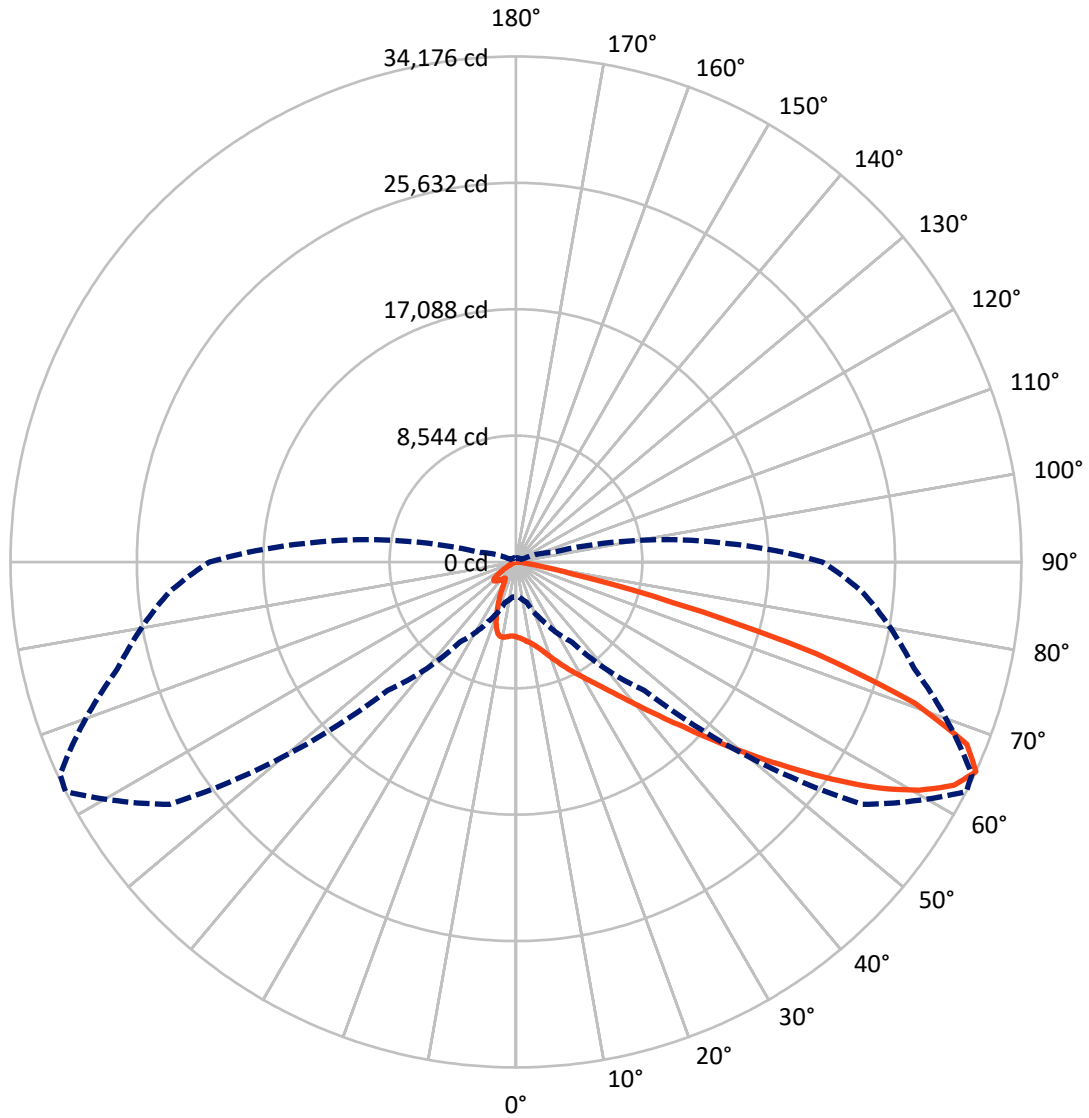
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6028.0	0.0	6028.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34981.0	0.0	34981.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	41009.0	0.0	41009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	1.2
10°-20°	1323.1	3.2
20°-30°	2303.9	5.6
30°-40°	4152.6	10.1
40°-50°	8235.9	20.1
50°-60°	11218.6	27.4
60°-70°	8954.6	21.8
70°-80°	4052.2	9.9
80°-90°	291.3	0.7
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°	41009.0	100.0
0°-180°	41009.0	100.0

Coefficient of Utilization



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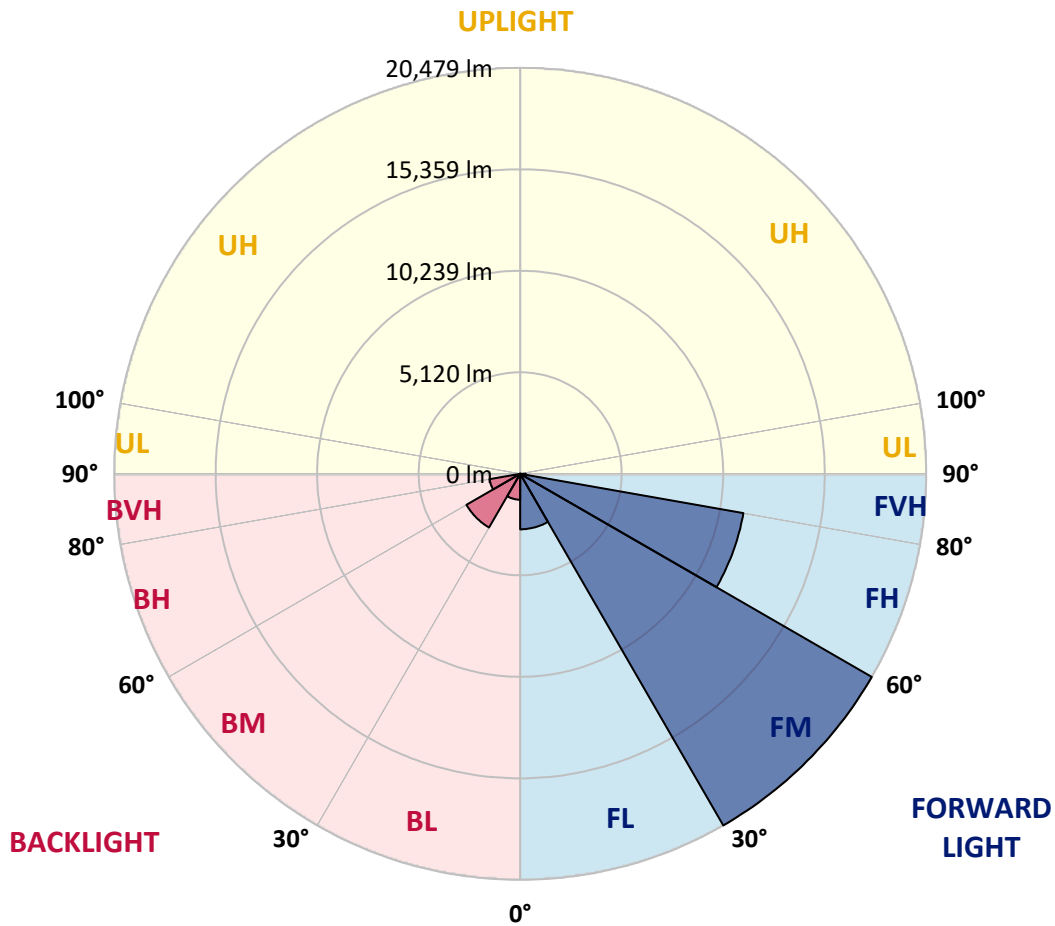
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2799.4	6.8			
FM (30°-60°)	20478.9	49.9			
FH (60°-80°)	11433.1	27.9			G4/12000
FVH (80°-90°)	269.7	0.7			G3/500
BL (0°-30°)	1304.6	3.2	B3/2500		
BM (30°-60°)	3128.2	7.6	B3/5000		
BH (60°-80°)	1573.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.6	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3
2.5°	5179.8	5165.7	5185.4	5177.0	5171.3	5160.0	5154.4	5148.7	5137.5	5129.0
5°	5193.9	5185.4	5205.2	5222.1	5239.0	5256.0	5264.4	5275.7	5264.4	5241.8
7.5°	5075.4	5069.7	5112.1	5162.8	5239.0	5303.9	5374.4	5413.9	5416.8	5408.3
10°	5066.9	5052.8	5095.1	5157.2	5256.0	5371.6	5495.8	5580.4	5591.7	5628.4
12.5°	5199.5	5185.4	5244.7	5312.4	5413.9	5535.3	5687.6	5806.1	5823.0	5873.8
15°	5422.4	5402.7	5470.4	5557.8	5687.6	5825.8	5986.6	6093.9	6108.0	6170.0
17.5°	5682.0	5662.2	5741.2	5834.3	5975.4	6164.4	6350.6	6469.1	6486.0	6525.5
20°	6014.9	5989.5	6051.5	6136.2	6285.7	6511.4	6734.3	6903.5	6900.7	6900.7
22.5°	6401.4	6361.9	6415.5	6483.2	6624.2	6897.9	7194.1	7394.4	7394.4	7315.4
25°	6816.1	6776.6	6835.8	6897.9	7022.0	7332.4	7679.4	7927.7	7938.9	7803.5
27.5°	7335.2	7284.4	7329.6	7402.9	7476.3	7792.2	8204.1	8491.9	8497.5	8288.8
30°	8333.9	8190.0	8049.0	7970.0	8003.8	8317.0	8757.1	9075.9	9104.1	8816.3
32.5°	10162.1	10133.9	9637.3	8988.4	8649.9	8881.2	9374.9	9758.6	9775.6	9406.0
35°	13003.0	12969.2	12170.8	10935.1	9832.0	9637.3	10125.4	10579.6	10568.3	10150.8
37.5°	16394.2	16363.1	15310.8	13657.6	11871.7	10779.9	11093.1	11569.9	11640.4	11093.1
40°	19291.6	19175.9	18510.1	16916.1	14580.1	12675.8	12469.8	12785.8	12859.2	12210.3
42.5°	21486.5	21387.7	21049.2	20053.3	17858.4	15480.1	14092.0	14213.4	14295.2	13516.5
45°	22623.4	22600.9	22736.3	22643.2	21198.7	18922.0	16411.1	15906.1	15937.1	14963.8
47.5°	22784.2	22773.0	23390.8	24265.4	24070.7	22804.0	19387.5	18016.4	17906.3	16597.3
50°	21836.3	21813.7	22998.7	24637.8	25989.2	26065.3	22767.3	20394.7	20152.0	18287.2
52.5°	18809.1	18803.5	20750.1	23478.3	26663.4	28920.4	26107.7	23007.1	22600.9	20075.9
55°	14472.9	14577.3	16808.9	20033.5	25433.4	30294.4	29106.6	25907.3	25283.9	21875.8
57.5°	10252.3	10404.7	12610.9	15482.9	21619.1	29481.8	31135.1	28813.2	28141.8	23670.1
60°	5507.0	5642.5	7851.5	11279.3	16083.8	26451.8	32204.3	31335.4	30700.6	25374.1
62.5°	3281.1	3326.2	4240.3	7281.6	10878.7	20208.5	31750.1	33256.7	32734.7	26804.5
65°	2355.7	2364.2	2824.1	4446.3	6604.5	12278.0	28564.9	34176.4	34015.6	27882.2
67.5°	1983.3	1977.7	2169.5	2953.8	4499.9	6150.3	21892.7	32875.8	33558.5	28564.9
70°	1701.2	1709.7	1935.4	2163.9	3382.7	3481.4	10884.3	28624.2	30079.9	28745.5
72.5°	1266.7	1294.9	1503.7	1972.0	2553.2	2395.2	3757.9	21224.1	23856.3	27083.8
75°	894.3	908.4	1058.0	1658.9	1904.3	1743.5	1918.4	10971.8	14346.0	20764.2
77.5°	688.4	713.8	801.2	1159.5	1876.1	1224.4	1173.6	3797.4	5834.3	12543.2
80°	372.4	417.5	578.4	837.9	1317.5	866.1	581.2	1512.2	1977.7	5865.3
82.5°	191.8	214.4	403.4	603.7	750.4	756.1	287.8	629.1	815.3	1811.2
85°	76.2	93.1	270.8	332.9	386.5	372.4	129.8	253.9	293.4	502.2
87.5°	16.9	28.2	98.7	76.2	73.4	79.0	31.0	59.2	56.4	59.2
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°
5061.3	0°	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3	5061.3
5095.1	2.5°	5092.3	5081.0	5050.0	5016.1	4976.6	4954.1	4940.0	4937.2	4917.4	4903.3
5208.0	5°	5177.0	5165.7	5106.4	5035.9	4959.7	4900.5	4844.1	4793.3	4719.9	4705.8
5371.6	7.5°	5346.2	5315.2	5219.3	5123.4	4979.5	4807.4	4598.6	4358.8	4144.4	4079.5
5588.9	10°	5555.0	5512.7	5391.4	5222.1	4903.3	4435.0	3930.0	3461.6	3089.2	2984.9
5845.6	12.5°	5792.0	5755.3	5594.5	5281.3	4584.5	3735.3	2962.3	2381.1	2020.0	1929.7
6119.2	15°	6074.1	6020.5	5797.6	5191.1	4014.6	2838.2	2034.1	1689.9	1560.1	1543.2
6432.4	17.5°	6373.2	6285.7	5978.2	4866.6	3247.2	2017.2	1571.4	1472.7	1416.3	1399.3
6748.4	20°	6646.8	6534.0	6085.4	4375.7	2426.3	1571.4	1407.8	1342.9	1292.1	1272.4
7064.4	22.5°	6920.5	6759.7	6085.4	3707.1	1819.7	1393.7	1292.1	1232.9	1173.6	1148.2
7402.9	25°	7205.4	6991.0	5978.2	2962.3	1464.2	1278.0	1182.1	1117.2	1066.4	1035.4
7724.5	27.5°	7481.9	7185.7	5732.7	2257.0	1303.4	1176.5	1080.5	1018.5	970.5	947.9
8074.4	30°	7744.3	7377.5	5388.5	1712.5	1199.0	1077.7	987.4	933.8	885.9	863.3
8528.6	32.5°	8099.7	7620.1	5021.8	1405.0	1108.7	984.6	902.8	852.0	809.7	792.8
9118.2	35°	8593.5	7978.4	4705.8	1379.6	1032.6	908.4	826.6	778.7	736.3	722.2
9879.9	37.5°	9293.1	8556.8	4539.4	1548.9	970.5	840.7	764.6	713.8	674.3	663.0
10847.6	40°	10156.4	9341.1	4629.6	1718.1	928.2	781.5	708.1	657.3	623.5	609.4
11959.2	42.5°	11180.5	10308.8	5129.0	1847.9	900.0	730.7	654.5	598.1	575.5	569.9
13220.3	45°	12357.0	11372.4	5893.5	1986.1	854.8	682.7	600.9	558.6	541.7	538.9
14591.4	47.5°	13694.2	12540.4	6779.4	2158.2	809.7	637.6	558.6	530.4	516.3	510.6
16021.8	50°	15020.2	13716.8	7690.7	2254.2	773.0	595.3	524.7	502.2	490.9	488.1
17533.9	52.5°	16408.3	14927.1	8427.0	2163.9	742.0	561.4	496.5	479.6	468.3	465.5
18927.6	55°	17731.4	15906.1	8554.0	1836.6	679.9	527.6	465.5	457.0	442.9	442.9
20341.1	57.5°	18871.2	16397.0	7656.8	1348.5	617.8	476.8	434.5	426.0	414.7	411.9
21616.3	60°	19917.9	16255.9	5910.5	908.4	550.1	426.0	395.0	389.3	378.0	363.9
22725.0	62.5°	20507.5	15635.3	4042.8	592.5	482.4	372.4	349.8	347.0	321.6	293.4
23546.0	65°	20730.4	14360.1	2522.2	431.6	403.4	318.8	301.9	296.2	259.6	228.5
24011.5	67.5°	20535.7	12261.1	1272.4	341.4	318.8	265.2	248.3	248.3	222.9	194.7
23983.3	70°	19757.1	9191.6	536.0	273.7	245.4	203.1	203.1	214.4	189.0	158.0
22739.1	72.5°	18067.2	6184.1	284.9	208.8	183.4	143.9	166.5	174.9	149.5	118.5
18611.6	75°	14362.9	3772.0	197.5	155.2	115.7	101.6	127.0	132.6	101.6	79.0
12760.4	77.5°	9823.5	2166.7	132.6	98.7	73.4	59.2	87.5	81.8	53.6	36.7
4920.2	80°	4313.7	902.8	76.2	45.1	28.2	22.6	31.0	22.6	16.9	11.3
674.3	82.5°	505.0	211.6	28.2	16.9	11.3	5.6	2.8	0.0	0.0	0.0
205.9	85°	104.4	25.4	14.1	5.6	2.8	0.0	0.0	0.0	0.0	0.0
36.7	87.5°	19.7	5.6	2.8	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>
5061.3
4917.4
4700.2
4048.5
2945.4
1904.3
1526.3
1390.9
1261.1
1134.1
1024.1
947.9
866.1
792.8
722.2
660.2
606.6
569.9
536.0
510.6
488.1
465.5
440.1
409.1
361.1
287.8
225.7
191.8
155.2
118.5
76.2
39.5
11.3
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