

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: P951779

Luminaire Tested: **GALN-SB5D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34431 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

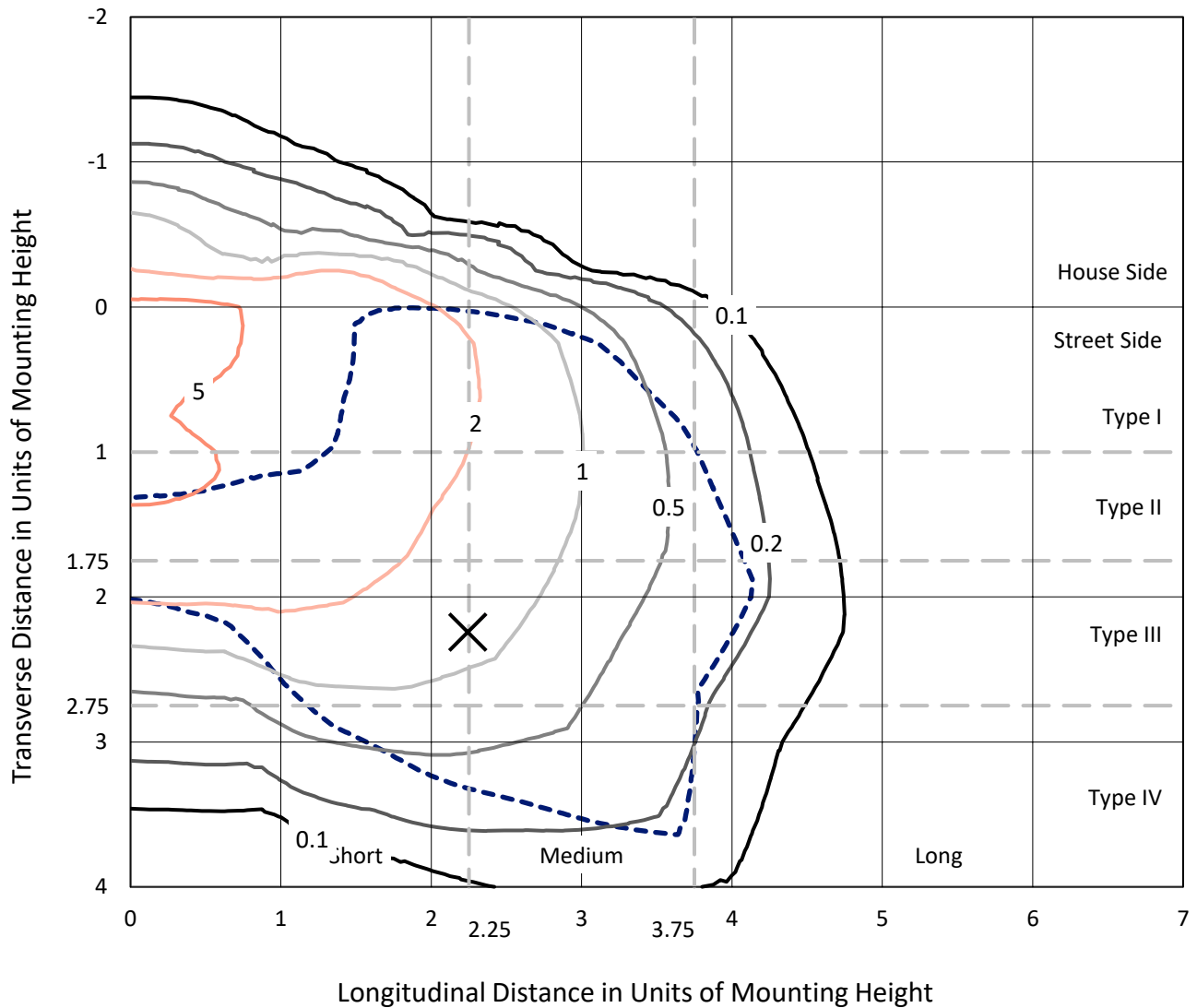
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

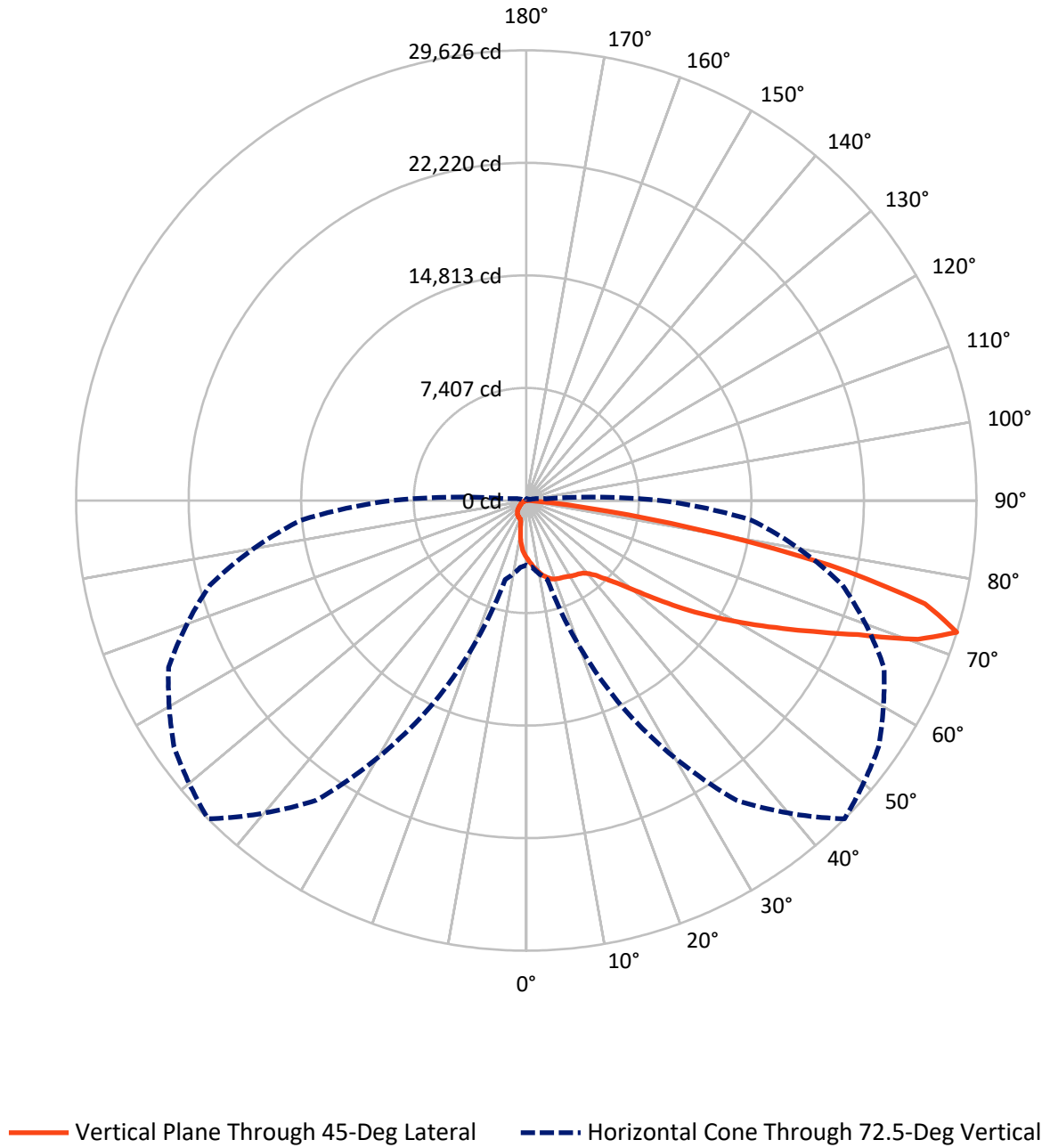
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3617.8	0.0	3617.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30813.3	0.0	30813.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	34431.0	0.0	34431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.0
10°-20°	1038.7	3.0
20°-30°	1705.7	5.0
30°-40°	2419.0	7.0
40°-50°	3998.4	11.6
50°-60°	7182.7	20.9
60°-70°	9973.6	29.0
70°-80°	7234.5	21.0
80°-90°	523.0	1.5
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°	34431.0	100.0
0°-180°	34431.0	100.0

Coefficient of Utilization



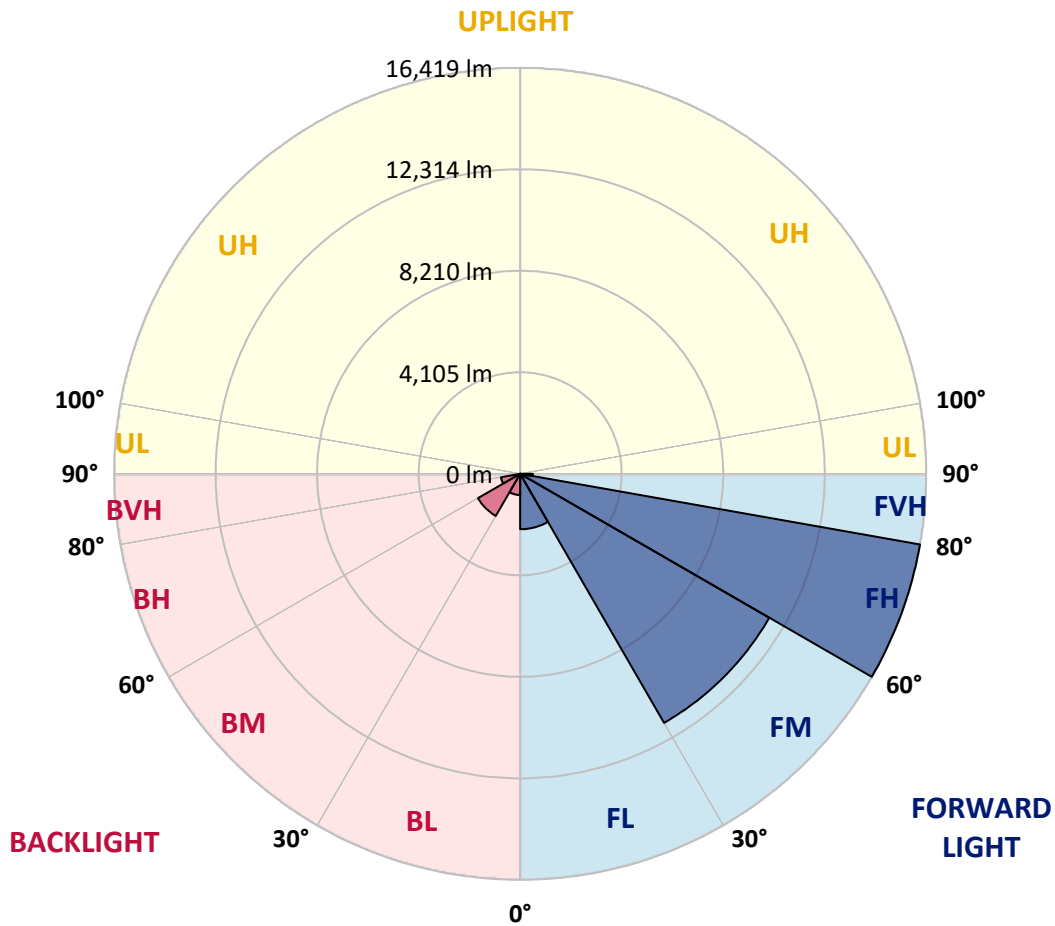
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.8	6.5			
FM (30°-60°)	11632.6	33.8			
FH (60°-80°)	16419.2	47.7			G5
FVH (80°-90°)	518.6	1.5			G4/750
BL (0°-30°)	856.9	2.5	B2/1000		
BM (30°-60°)	1967.5	5.7	B2/2500		
BH (60°-80°)	788.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0
2.5°	4119.8	4126.9	4122.2	4094.0	4047.0	4021.1	4007.0	3960.0	3929.4	3875.4
5°	4498.2	4526.4	4509.9	4453.5	4364.2	4300.8	4282.0	4185.6	4098.7	3997.6
7.5°	4900.1	4914.2	4883.6	4810.8	4690.9	4582.8	4566.3	4432.4	4293.7	4138.6
10°	5247.9	5264.3	5217.3	5111.6	4975.3	4841.3	4817.8	4669.7	4505.2	4314.9
12.5°	5539.3	5555.8	5494.6	5367.7	5217.3	5078.7	5055.2	4900.1	4719.1	4507.6
15°	5760.2	5790.8	5708.5	5572.2	5410.0	5271.4	5259.6	5106.9	4930.6	4695.6
17.5°	5889.5	5920.0	5842.5	5678.0	5539.3	5421.8	5407.7	5280.8	5116.3	4890.7
20°	5910.6	5938.8	5856.6	5713.2	5598.1	5504.0	5497.0	5405.3	5285.5	5069.3
22.5°	5847.2	5882.4	5807.2	5692.1	5612.2	5562.8	5553.4	5501.7	5433.5	5250.2
25°	5781.4	5809.6	5753.2	5652.1	5609.8	5605.1	5612.2	5602.8	5588.7	5433.5
27.5°	5776.7	5807.2	5743.8	5647.4	5623.9	5673.3	5680.3	5725.0	5736.7	5600.4
30°	5816.6	5837.8	5776.7	5675.6	5663.9	5776.7	5779.0	5858.9	5877.7	5741.4
32.5°	5903.6	5927.1	5866.0	5717.9	5701.5	5858.9	5866.0	5971.7	6002.3	5891.8
35°	6108.0	6136.2	6065.7	5835.4	5776.7	5936.5	5957.6	6082.2	6143.3	6051.6
37.5°	6618.0	6535.8	6439.4	6072.8	5948.2	6058.7	6093.9	6239.6	6347.8	6242.0
40°	7884.8	7626.2	7325.4	6477.0	6249.0	6319.6	6347.8	6493.5	6641.5	6538.1
42.5°	9786.0	9480.5	8996.4	7407.7	6702.6	6737.9	6759.0	6885.9	7095.1	7012.8
45°	11480.5	11370.0	10876.5	8996.4	7551.0	7377.1	7403.0	7468.8	7776.6	7746.1
47.5°	12782.5	12719.0	12338.3	10820.1	8984.6	8159.7	8232.6	8263.1	8707.3	8815.4
50°	13783.6	13760.1	13419.4	12441.7	10857.7	9313.6	9339.5	9273.7	9938.8	10206.7
52.5°	14728.4	14808.3	14556.8	13948.1	12857.7	10824.8	10820.1	10509.9	11407.6	11811.8
55°	15581.5	15609.7	15635.5	15485.1	14869.4	12545.1	12500.4	11992.8	13111.5	13529.8
57.5°	16382.9	16394.6	16625.0	16932.8	16963.4	14392.3	14310.1	13701.4	14972.8	15271.3
60°	16921.1	16975.1	17461.6	18317.1	18690.7	16298.3	16253.6	15633.2	16867.0	17005.7
62.5°	16145.5	16474.5	17701.3	19398.1	20321.7	18411.1	18389.9	17807.1	18859.9	18747.1
65°	13069.2	13626.2	15783.6	20129.0	21922.2	20770.6	20801.2	20180.7	20906.9	20540.3
67.5°	9142.1	9729.6	12281.9	20187.8	23710.7	23541.4	23717.7	22744.7	23080.8	22258.3
70°	6321.9	6625.1	8286.6	18923.4	25104.3	27358.1	27353.4	25893.9	25243.0	23040.9
72.5°	4251.4	4408.9	5381.8	15012.8	24079.6	29626.0	29489.7	28300.5	25971.5	21548.5
75°	1793.2	1908.3	2491.2	8437.0	19050.3	27104.3	26735.3	25010.3	23076.1	16968.1
77.5°	568.7	618.1	982.4	3019.9	10493.4	20373.4	19983.3	15619.1	15466.3	8512.2
80°	270.3	314.9	552.3	1212.7	4129.2	11081.0	11026.9	7085.7	6653.3	2298.4
82.5°	117.5	138.7	305.5	648.6	1847.2	3953.0	4032.9	2411.3	1995.3	871.9
85°	37.6	49.4	141.0	298.5	780.2	982.4	970.6	573.4	803.8	474.7
87.5°	0.0	0.0	47.0	68.2	79.9	56.4	63.5	49.4	223.3	131.6
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°
3772.0	0°	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0	3772.0
3819.0	2.5°	3790.8	3753.2	3687.4	3626.3	3572.2	3518.2	3485.3	3438.3	3433.6	3433.6
3880.1	5°	3816.6	3755.5	3638.0	3513.5	3370.1	3233.8	3097.5	2965.9	2923.6	2893.0
3978.8	7.5°	3891.8	3795.5	3609.8	3372.5	3099.8	2801.4	2592.2	2366.6	2279.6	2232.6
4110.4	10°	4000.0	3868.3	3586.3	3170.4	2728.5	2321.9	2023.5	1779.1	1685.1	1645.1
4253.8	12.5°	4119.8	3957.7	3544.0	2918.9	2321.9	1835.5	1544.0	1431.2	1417.1	1417.1
4425.3	15°	4263.2	4065.8	3471.2	2622.8	1896.6	1452.4	1349.0	1353.7	1367.8	1377.2
4592.2	17.5°	4411.2	4180.9	3356.0	2291.4	1520.5	1306.7	1309.0	1316.1	1327.8	1337.2
4773.2	20°	4571.0	4296.1	3203.3	1938.9	1304.3	1264.4	1271.4	1278.5	1287.9	1292.6
4942.4	22.5°	4742.6	4404.2	3022.3	1593.4	1231.5	1229.1	1231.5	1238.5	1250.3	1250.3
5139.8	25°	4925.9	4524.0	2815.5	1341.9	1193.9	1193.9	1198.6	1203.3	1212.7	1212.7
5330.1	27.5°	5113.9	4634.5	2596.9	1210.3	1161.0	1158.6	1158.6	1165.7	1170.4	1172.7
5518.2	30°	5320.7	4763.8	2378.4	1182.1	1135.1	1123.4	1116.3	1121.0	1125.7	1128.1
5715.6	32.5°	5532.3	4888.3	2183.3	1193.9	1109.3	1088.1	1064.6	1059.9	1059.9	1069.3
5920.0	35°	5767.3	5024.6	2032.9	1233.8	1095.2	1036.4	998.8	977.7	980.0	994.1
6164.4	37.5°	6049.3	5189.1	1922.4	1269.1	1085.8	977.7	916.6	890.7	874.3	890.7
6500.5	40°	6418.3	5431.2	1842.5	1297.3	1074.0	909.5	827.3	784.9	754.4	763.8
7022.2	42.5°	6961.1	5811.9	1812.0	1299.6	1048.2	829.6	735.6	679.2	634.5	636.9
7807.2	45°	7722.6	6413.6	1969.4	1269.1	991.8	742.6	639.2	564.0	535.8	528.8
8979.9	47.5°	8766.1	7290.2	2333.7	1205.6	909.5	658.0	545.2	481.8	460.6	448.9
10519.3	50°	10164.4	8415.9	2737.9	1135.1	827.3	578.1	467.7	427.7	413.6	401.9
12345.3	52.5°	11786.0	9558.1	3069.3	1064.6	745.0	507.6	418.3	394.8	383.1	373.7
14107.9	55°	13273.6	10345.4	3050.5	989.4	665.1	451.2	383.1	369.0	354.9	345.5
15626.1	57.5°	14199.6	10455.8	2514.7	907.2	573.4	406.6	350.2	340.8	324.3	312.6
16939.9	60°	14625.0	9826.0	1762.6	799.1	481.8	364.3	314.9	310.2	289.1	272.6
18183.1	62.5°	14702.5	8655.6	1175.1	665.1	401.9	324.3	279.7	272.6	244.4	216.2
19193.7	65°	14387.6	6982.3	813.2	519.4	343.1	282.0	239.7	225.6	195.1	166.9
19433.4	67.5°	13391.1	4902.4	566.4	373.7	291.4	223.3	190.4	185.7	162.2	138.7
18211.3	70°	11565.1	2794.3	378.4	279.7	230.3	152.8	150.4	155.1	131.6	112.8
14878.8	72.5°	8867.1	1278.5	235.0	204.5	157.5	103.4	119.9	122.2	101.1	84.6
9283.1	75°	5219.7	547.6	148.1	131.6	79.9	68.2	87.0	89.3	68.2	54.1
3393.6	77.5°	1776.7	206.8	94.0	77.6	40.0	37.6	56.4	56.4	37.6	21.2
681.5	80°	404.2	77.6	47.0	30.6	18.8	16.5	18.8	16.5	9.4	2.4
209.2	82.5°	115.2	30.6	18.8	11.8	7.1	7.1	2.4	0.0	0.0	0.0
72.9	85°	32.9	14.1	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
25.9	87.5°	14.1	2.4	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>
3772.0
3445.3
2907.1
2239.7
1645.1
1417.1
1377.2
1337.2
1294.9
1255.0
1215.0
1175.1
1132.8
1076.4
1001.2
886.0
759.1
627.5
519.4
441.8
399.5
371.3
340.8
310.2
267.9
202.1
157.5
131.6
103.4
75.2
47.0
16.5
0.0
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