

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: P942524

Luminaire Tested: **GALN-SB6C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942524
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-SB6C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 28837 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

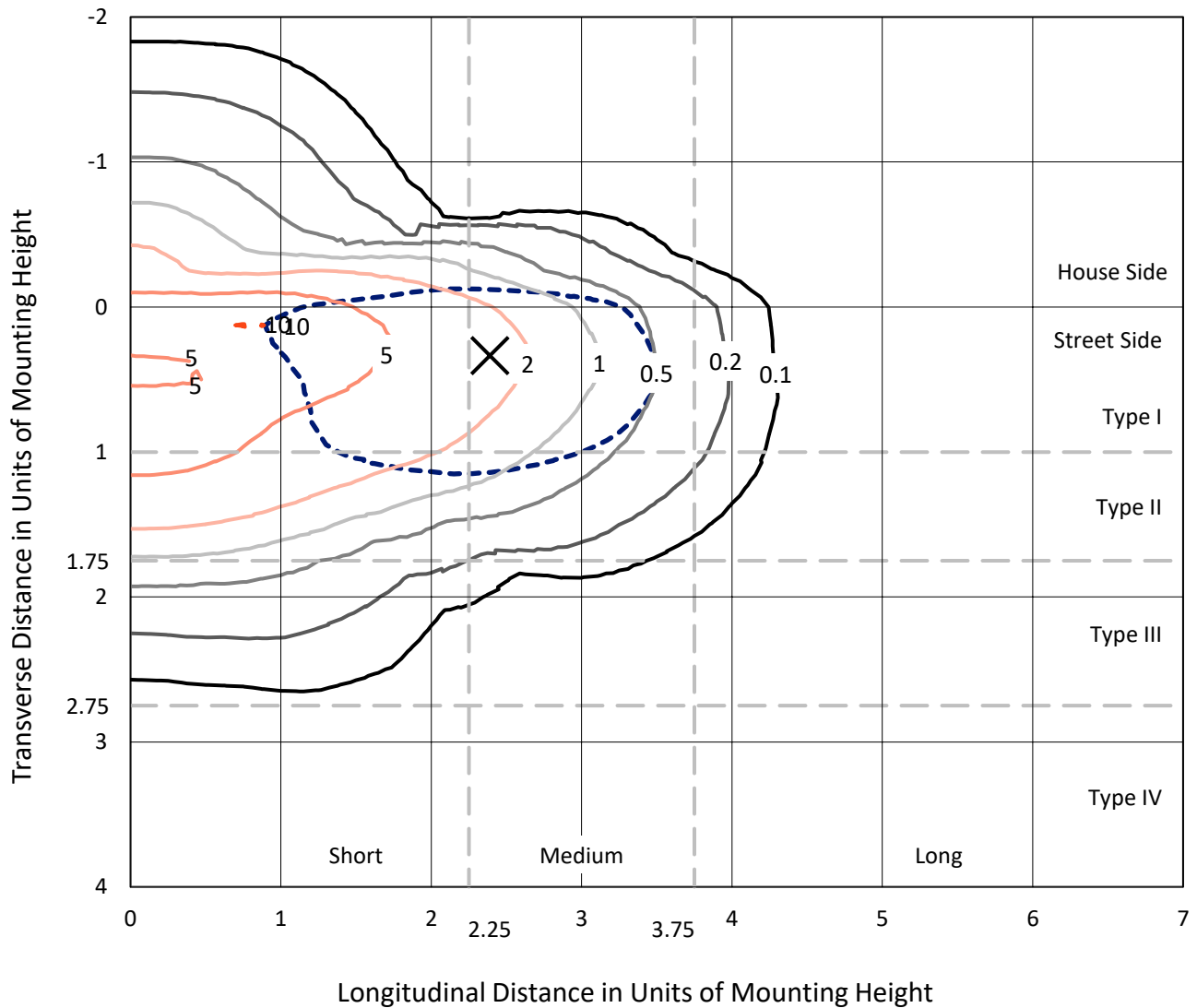
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942524
 CATALOG NUMBER: GALN-SB6C-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

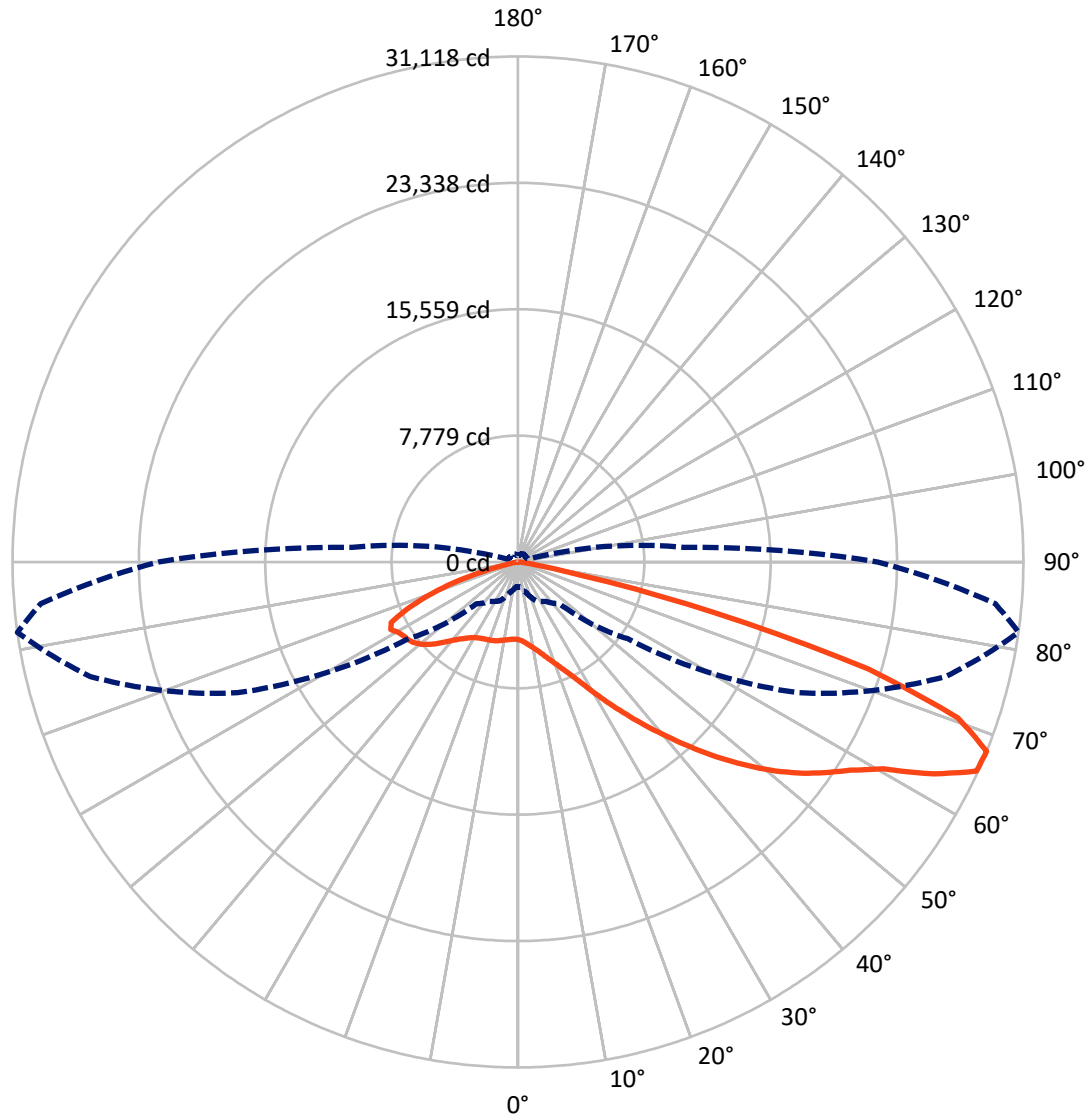
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P942524
CATALOG NUMBER: GALN-SB6C-827-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P942524

CATALOG NUMBER: GALN-SB6C-827-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5223.6	0.0	5223.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23613.4	0.0	23613.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28837.0	0.0	28837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.6	1.5
10°-20°	1106.0	3.8
20°-30°	1771.5	6.1
30°-40°	3132.6	10.9
40°-50°	5488.5	19.0
50°-60°	7320.2	25.4
60°-70°	6814.7	23.6
70°-80°	2615.5	9.1
80°-90°	162.4	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°	28837.0	100.0
0°-180°	28837.0	100.0

Coefficient of Utilization



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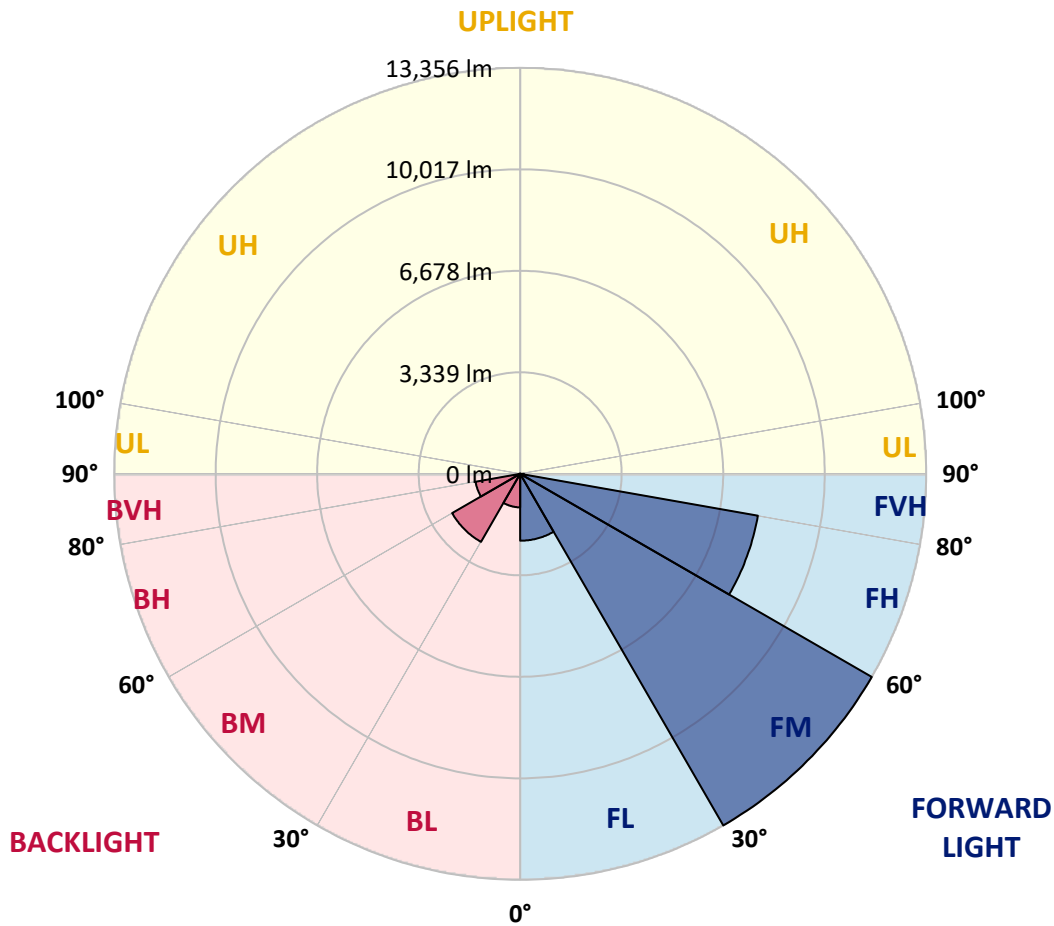
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.9	7.6			
FM (30°-60°)	13356.1	46.3			
FH (60°-80°)	7939.3	27.5			G4/12000
FVH (80°-90°)	118.1	0.4			G2/225
BL (0°-30°)	1103.2	3.8	B3/2500		
BM (30°-60°)	2585.1	9.0	B3/5000		
BH (60°-80°)	1490.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	44.3	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



REPORT NUMBER: P942524

CATALOG NUMBER: GALN-SB6C-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3
2.5°	5049.3	5078.4	5061.8	5053.4	5038.9	5018.2	5001.5	4949.6	4895.7	4860.4
5°	5151.0	5180.1	5178.0	5186.3	5196.7	5202.9	5198.8	5140.6	5063.8	5003.6
7.5°	5063.8	5097.0	5124.0	5165.6	5238.2	5315.0	5352.4	5340.0	5261.1	5178.0
10°	4816.8	4852.1	4916.4	5014.0	5167.6	5333.7	5472.8	5537.2	5487.4	5396.0
12.5°	4364.2	4399.4	4526.1	4737.9	4995.3	5283.9	5549.7	5722.0	5734.4	5643.1
15°	3855.5	3890.8	4025.7	4291.5	4683.9	5146.9	5591.2	5917.1	6027.2	5948.3
17.5°	3539.9	3571.0	3672.8	3886.6	4295.6	4872.8	5576.6	6124.8	6376.0	6313.7
20°	3444.4	3471.4	3519.1	3668.6	4009.1	4588.4	5481.1	6319.9	6751.8	6716.5
22.5°	3546.1	3571.0	3585.6	3652.0	3865.9	4401.5	5360.7	6519.2	7187.8	7191.9
25°	3780.7	3805.7	3789.0	3830.6	3924.0	4343.4	5315.0	6753.8	7735.9	7781.6
27.5°	4166.9	4169.0	4129.5	4127.5	4142.0	4430.6	5362.8	7005.1	8427.3	8512.4
30°	4941.3	4910.2	4758.6	4594.6	4519.9	4692.2	5495.7	7302.0	9243.2	9394.8
32.5°	6135.1	6089.5	5811.3	5418.9	5024.4	5113.7	5734.4	7640.4	10131.8	10405.9
35°	7430.7	7418.2	7127.6	6544.2	5854.9	5713.7	6122.7	8084.7	11101.4	11537.4
37.5°	8634.9	8628.6	8462.6	7775.3	6936.6	6550.4	6745.5	8666.0	12139.5	12770.6
40°	9735.3	9753.9	9587.8	8973.3	8128.3	7623.8	7592.6	9384.4	13293.8	14113.9
42.5°	10686.2	10706.9	10538.7	10084.1	9305.5	8811.4	8632.8	10264.7	14421.2	15556.9
45°	11331.8	11460.6	11435.7	11072.3	10513.8	10001.0	9882.7	11369.2	15706.4	17087.1
47.5°	11514.6	11632.9	11819.8	11869.6	11529.1	11024.6	11165.8	12700.1	17006.1	18619.3
50°	11064.0	11174.1	11562.3	12079.3	12316.0	12160.2	12413.5	14126.4	18336.9	20147.4
52.5°	10175.4	10287.5	10777.5	11595.5	12561.0	13050.9	13665.5	15532.0	19626.2	21594.5
55°	8890.2	9008.6	9637.7	10563.7	12093.8	13418.4	14709.8	16935.5	20807.6	22896.2
57.5°	7142.1	7229.3	7883.3	9178.8	10918.7	13053.0	15480.1	18467.7	21920.4	24175.2
60°	4654.8	4731.6	5491.5	6936.6	8971.2	11832.2	15633.7	20176.4	23398.7	25838.2
62.5°	3095.6	3147.5	3598.0	4659.0	6317.8	9488.2	14734.7	21540.5	25566.2	28732.4
65°	2123.9	2175.8	2626.4	3365.5	4081.8	6276.3	12149.9	21359.9	27530.3	31030.7
67.5°	1515.6	1559.2	1941.2	2638.8	2954.4	3645.8	8236.2	19051.1	27247.9	31117.9
70°	1085.8	1110.8	1426.3	2055.4	2348.2	2190.4	4580.1	14570.7	23857.5	28734.5
72.5°	759.9	768.2	990.3	1565.4	1891.4	1598.7	2180.0	9714.5	18044.2	22553.7
75°	514.9	525.3	666.5	1148.1	1517.7	1220.8	1154.4	5209.2	10592.7	12484.1
77.5°	315.6	319.7	429.8	784.8	1135.7	930.1	743.3	2207.0	4098.4	4023.7
80°	178.6	178.6	274.1	487.9	774.4	600.0	521.1	938.4	1297.6	1139.8
82.5°	99.7	101.7	199.3	303.1	512.8	355.0	286.5	433.9	560.6	496.2
85°	41.5	45.7	122.5	143.3	245.0	176.5	116.3	182.7	207.6	184.8
87.5°	4.2	6.2	37.4	27.0	29.1	35.3	16.6	35.3	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942524
 CATALOG NUMBER: GALN-SB6C-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4777.3	0°	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3	4777.3
4847.9	2.5°	4808.5	4777.3	4698.4	4607.1	4486.6	4428.5	4349.6	4295.6	4250.0	4254.1
4968.3	5°	4901.9	4823.0	4646.5	4426.4	4152.4	3957.2	3749.6	3606.3	3490.1	3465.2
5134.4	7.5°	5030.6	4906.0	4596.7	4200.1	3737.1	3386.3	3072.8	2871.4	2728.1	2682.4
5335.8	10°	5196.7	5016.1	4532.3	3915.7	3249.2	2802.9	2466.5	2308.7	2211.1	2177.9
5572.5	12.5°	5389.8	5142.7	4447.2	3569.0	2746.8	2317.0	2103.2	2024.3	1993.1	1982.8
5863.2	15°	5632.7	5300.5	4318.5	3157.9	2321.2	2020.1	1928.8	1918.4	1922.6	1918.4
6212.0	17.5°	5921.3	5472.8	4108.8	2734.3	2034.7	1868.6	1835.4	1843.7	1854.0	1852.0
6602.3	20°	6236.9	5643.1	3841.0	2358.6	1839.5	1760.6	1741.9	1750.2	1758.5	1754.4
7052.8	22.5°	6596.1	5825.8	3544.1	2065.8	1708.7	1661.0	1640.2	1642.3	1642.3	1634.0
7623.8	25°	7025.8	6027.2	3232.6	1858.2	1609.0	1571.7	1546.8	1538.5	1526.0	1501.1
8317.2	27.5°	7538.6	6241.0	2933.7	1712.9	1530.2	1494.9	1465.8	1445.0	1413.9	1372.4
9149.8	30°	8115.8	6500.6	2680.4	1621.5	1467.9	1432.6	1399.4	1368.2	1322.5	1270.6
10106.9	32.5°	8794.7	6778.8	2495.6	1561.3	1411.8	1374.4	1335.0	1297.6	1247.8	1195.9
11182.4	35°	9604.5	7115.1	2387.6	1519.8	1368.2	1318.4	1274.8	1233.3	1195.9	1150.2
12351.3	37.5°	10482.7	7472.2	2354.4	1499.0	1339.1	1262.3	1212.5	1183.4	1179.3	1152.3
13615.7	40°	11444.0	7895.8	2379.3	1486.6	1308.0	1208.3	1154.4	1148.1	1158.5	1110.8
14967.3	42.5°	12461.3	8398.2	2420.8	1472.0	1264.4	1154.4	1102.5	1102.5	1094.2	1027.7
16395.7	45°	13561.7	8977.4	2462.4	1436.7	1212.5	1100.4	1060.9	1046.4	1011.1	946.7
17832.4	47.5°	14670.4	9567.1	2493.5	1372.4	1150.2	1054.7	1019.4	986.2	934.3	876.2
19242.1	50°	15723.0	10096.5	2460.3	1276.9	1079.6	1011.1	973.7	928.1	872.0	832.6
20577.1	52.5°	16663.5	10555.4	2319.1	1164.7	1004.9	965.4	932.2	884.5	838.8	797.3
21781.3	55°	17481.5	10927.0	2070.0	1058.9	938.4	926.0	892.8	832.6	770.3	735.0
22975.1	57.5°	18266.3	11209.4	1758.5	971.7	878.2	882.4	832.6	778.6	720.4	683.1
24584.2	60°	19310.7	11587.2	1443.0	890.7	813.9	826.3	772.3	732.9	660.2	612.5
27343.4	62.5°	20979.9	12174.8	1146.1	791.0	739.1	743.3	720.4	672.7	585.5	529.4
29388.5	65°	22304.5	11958.9	903.1	683.1	654.0	660.2	660.2	608.3	514.9	450.5
29498.5	67.5°	22155.0	10239.8	720.4	577.2	573.0	577.2	591.7	548.1	456.8	404.9
27252.1	70°	20409.0	8144.9	577.2	479.6	498.3	487.9	529.4	500.4	411.1	359.2
21127.3	72.5°	16653.1	5867.3	440.2	396.6	382.0	398.6	477.5	450.5	342.6	284.4
11190.7	75°	9731.1	3130.9	328.0	313.5	276.1	332.2	423.5	384.1	261.6	209.7
3429.9	77.5°	3168.3	1092.1	240.8	230.5	205.5	267.8	361.3	323.9	213.8	166.1
1004.9	80°	849.2	330.1	164.0	151.6	132.9	199.3	286.5	257.4	153.6	108.0
431.8	82.5°	340.5	139.1	95.5	85.1	72.7	137.0	226.3	207.6	114.2	68.5
135.0	85°	110.0	45.7	35.3	27.0	33.2	85.1	135.0	141.2	81.0	35.3
20.8	87.5°	14.5	6.2	6.2	8.3	6.2	14.5	41.5	39.4	22.8	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>
4777.3
4212.6
3409.1
2636.8
2153.0
1976.5
1916.3
1847.8
1752.3
1629.8
1496.9
1368.2
1266.5
1198.0
1146.1
1150.2
1112.8
1027.7
944.7
874.1
826.3
793.1
730.8
678.9
606.2
525.3
444.3
396.6
353.0
278.2
203.5
159.9
105.9
68.5
27.0
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