

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: P944474

Luminaire Tested: **GALN-SB9B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944474
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-SB9B-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 27140 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

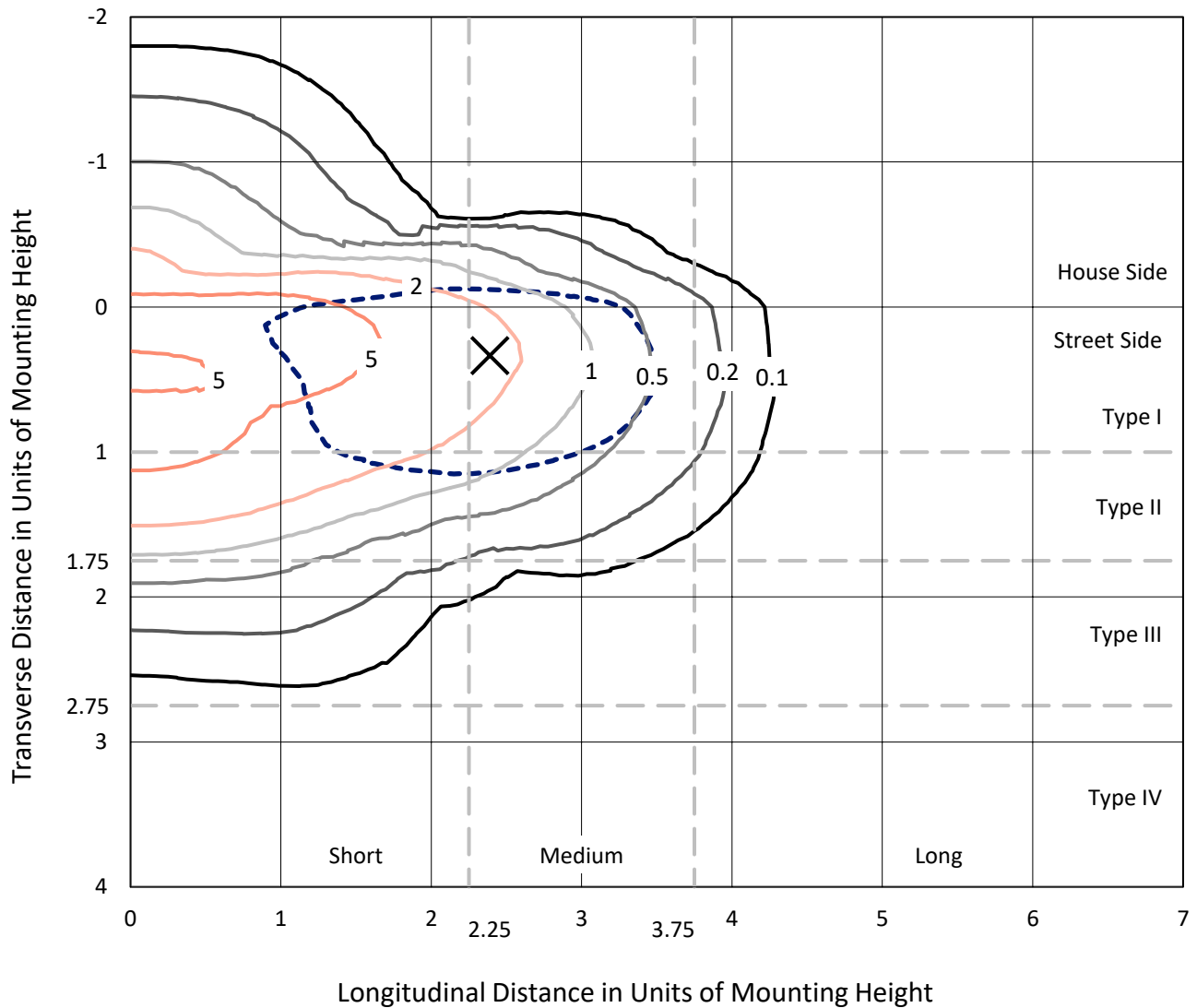
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944474
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Iso-Footcandle Lines of Horizontal Illumination

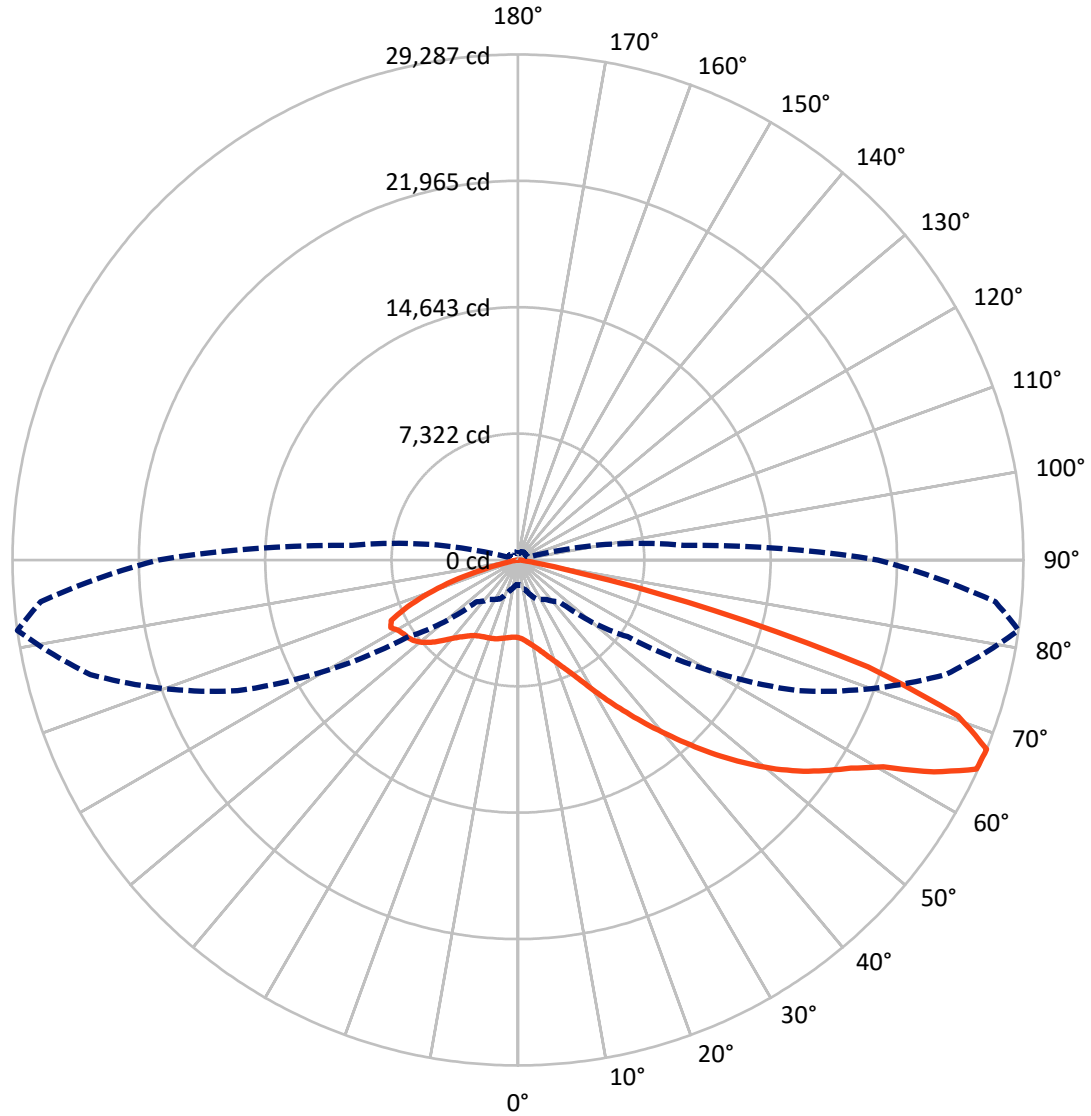
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P944474
CATALOG NUMBER: GALN-SB9B-940-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P944474

CATALOG NUMBER: GALN-SB9B-940-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4916.2	0.0	4916.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22223.8	0.0	22223.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	27140.0	0.0	27140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	1.5
10°-20°	1040.9	3.8
20°-30°	1667.2	6.1
30°-40°	2948.2	10.9
40°-50°	5165.5	19.0
50°-60°	6889.4	25.4
60°-70°	6413.7	23.6
70°-80°	2461.6	9.1
80°-90°	152.9	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°	27140.0	100.0
0°-180°	27140.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944474

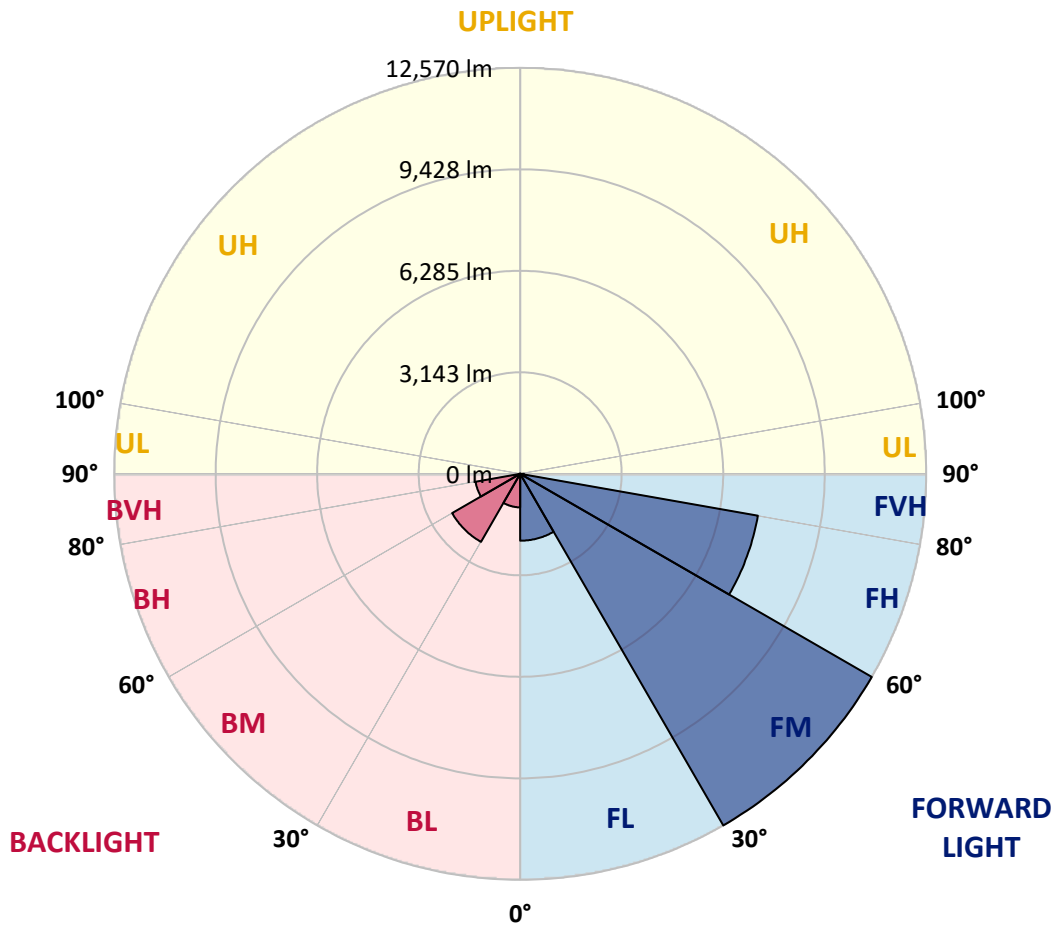
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.5	7.6			
FM (30°-60°)	12570.1	46.3			
FH (60°-80°)	7472.1	27.5			G3/7500
FVH (80°-90°)	111.2	0.4			G2/225
BL (0°-30°)	1038.3	3.8	B3/2500		
BM (30°-60°)	2433.0	9.0	B2/2500		
BH (60°-80°)	1403.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.7	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: P944474

CATALOG NUMBER: GALN-SB9B-940-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2
2.5°	4752.2	4779.5	4763.9	4756.1	4742.4	4722.8	4707.2	4658.4	4607.6	4574.3
5°	4847.9	4875.3	4873.3	4881.1	4890.9	4896.8	4892.8	4838.1	4765.8	4709.2
7.5°	4765.8	4797.1	4822.5	4861.6	4930.0	5002.3	5037.4	5025.7	4951.5	4873.3
10°	4533.3	4566.5	4627.1	4718.9	4863.5	5019.9	5150.8	5211.3	5164.5	5078.5
12.5°	4107.3	4140.5	4259.7	4459.1	4701.4	4973.0	5223.1	5385.3	5397.0	5311.0
15°	3628.6	3661.8	3788.8	4038.9	4408.2	4844.0	5262.2	5568.9	5672.5	5598.2
17.5°	3331.6	3360.9	3456.6	3657.9	4042.8	4586.1	5248.5	5764.3	6000.8	5942.1
20°	3241.7	3267.1	3312.0	3452.7	3773.2	4318.4	5158.6	5948.0	6354.4	6321.2
22.5°	3337.5	3360.9	3374.6	3437.1	3638.4	4142.5	5045.3	6135.6	6764.8	6768.7
25°	3558.3	3581.7	3566.1	3605.2	3693.1	4087.8	5002.3	6356.4	7280.6	7323.6
27.5°	3921.7	3923.7	3886.5	3884.6	3898.3	4169.9	5047.2	6592.8	7931.3	8011.4
30°	4650.5	4621.2	4478.6	4324.2	4253.9	4416.1	5172.3	6872.3	8699.3	8841.9
32.5°	5774.1	5731.1	5469.3	5100.0	4728.7	4812.7	5397.0	7190.8	9535.6	9793.5
35°	6993.4	6981.7	6708.1	6159.0	5510.3	5377.4	5762.4	7608.9	10448.1	10858.4
37.5°	8126.7	8120.9	7964.5	7317.8	6528.4	6164.9	6348.6	8156.0	11425.1	12019.1
40°	9162.4	9179.9	9023.6	8445.2	7650.0	7175.1	7145.8	8832.1	12511.5	13283.4
42.5°	10057.3	10076.8	9918.6	9490.6	8757.9	8292.8	8124.8	9660.6	13572.6	14641.4
45°	10665.0	10786.1	10762.7	10420.7	9895.1	9412.5	9301.1	10700.2	14782.1	16081.5
47.5°	10836.9	10948.3	11124.2	11171.1	10850.6	10375.8	10508.7	11952.7	16005.3	17523.6
50°	10412.9	10516.5	10881.9	11368.4	11591.2	11444.6	11683.0	13295.1	17257.8	18961.7
52.5°	9576.6	9682.1	10143.3	10913.2	11821.8	12282.9	12861.3	14618.0	18471.3	20323.7
55°	8367.1	8478.5	9070.5	9942.0	11382.1	12628.8	13844.2	15938.9	19583.1	21548.8
57.5°	6721.8	6803.9	7419.4	8638.7	10276.1	12284.9	14569.1	17380.9	20630.4	22752.5
60°	4380.9	4453.2	5168.4	6528.4	8443.3	11135.9	14713.7	18989.1	22021.7	24317.7
62.5°	2913.4	2962.3	3386.3	4384.8	5946.1	8929.8	13867.6	20272.9	24061.7	27041.6
65°	1999.0	2047.8	2471.8	3167.5	3841.6	5907.0	11434.9	20102.9	25910.2	29204.6
67.5°	1426.4	1467.5	1827.0	2483.5	2780.6	3431.2	7751.6	17930.0	25644.4	29286.7
70°	1021.9	1045.4	1342.4	1934.5	2210.0	2061.5	4310.5	13713.2	22453.5	27043.5
72.5°	715.2	723.0	932.1	1473.3	1780.1	1504.6	2051.7	9142.8	16982.3	21226.4
75°	484.6	494.4	627.2	1080.6	1428.4	1149.0	1086.4	4902.6	9969.4	11749.5
77.5°	297.0	300.9	404.5	738.6	1068.8	875.4	699.5	2077.1	3857.2	3786.9
80°	168.0	168.0	257.9	459.2	728.8	564.7	490.5	883.2	1221.3	1072.8
82.5°	93.8	95.7	187.6	285.3	482.6	334.1	269.7	408.4	527.6	467.0
85°	39.1	43.0	115.3	134.8	230.6	166.1	109.4	172.0	195.4	173.9
87.5°	3.9	5.9	35.2	25.4	27.4	33.2	15.6	33.2	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944474
 CATALOG NUMBER: GALN-SB9B-940-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4496.2	0°	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2
4562.6	2.5°	4525.5	4496.2	4421.9	4336.0	4222.6	4167.9	4093.7	4042.8	3999.9	4003.8
4675.9	5°	4613.4	4539.2	4373.1	4166.0	3908.0	3724.3	3528.9	3394.1	3284.7	3261.2
4832.3	7.5°	4734.6	4617.3	4326.2	3953.0	3517.2	3187.0	2891.9	2702.4	2567.6	2524.6
5021.8	10°	4890.9	4720.9	4265.6	3685.3	3058.0	2637.9	2321.4	2172.9	2081.0	2049.8
5244.6	12.5°	5072.6	4840.1	4185.5	3358.9	2585.2	2180.7	1979.4	1905.2	1875.9	1866.1
5518.1	15°	5301.2	4988.6	4064.3	2972.1	2184.6	1901.3	1815.3	1805.5	1809.4	1805.5
5846.4	17.5°	5572.8	5150.8	3867.0	2573.4	1914.9	1758.6	1727.3	1735.2	1744.9	1743.0
6213.8	20°	5869.8	5311.0	3614.9	2219.8	1731.3	1657.0	1639.4	1647.2	1655.0	1651.1
6637.8	22.5°	6207.9	5483.0	3335.5	1944.2	1608.2	1563.2	1543.7	1545.6	1545.6	1537.8
7175.1	25°	6612.4	5672.5	3042.4	1748.8	1514.4	1479.2	1455.7	1447.9	1436.2	1412.8
7827.8	27.5°	7095.0	5873.8	2761.0	1612.1	1440.1	1406.9	1379.5	1360.0	1330.7	1291.6
8611.3	30°	7638.2	6118.0	2522.6	1526.1	1381.5	1348.3	1317.0	1287.7	1244.7	1195.9
9512.1	32.5°	8277.2	6379.8	2348.7	1469.4	1328.7	1293.6	1256.4	1221.3	1174.4	1125.5
10524.3	35°	9039.3	6696.4	2247.1	1430.3	1287.7	1240.8	1199.8	1160.7	1125.5	1082.5
11624.4	37.5°	9865.8	7032.5	2215.8	1410.8	1260.3	1188.0	1141.1	1113.8	1109.9	1084.5
12814.4	40°	10770.5	7431.1	2239.3	1399.1	1231.0	1137.2	1086.4	1080.6	1090.3	1045.4
14086.5	42.5°	11728.0	7904.0	2278.4	1385.4	1190.0	1086.4	1037.6	1037.6	1029.8	967.2
15430.8	45°	12763.6	8449.1	2317.5	1352.2	1141.1	1035.6	998.5	984.8	951.6	891.0
16783.0	47.5°	13807.0	9004.1	2346.8	1291.6	1082.5	992.6	959.4	928.2	879.3	824.6
18109.8	50°	14797.7	9502.4	2315.5	1201.7	1016.1	951.6	916.4	873.4	820.7	783.6
19366.2	52.5°	15682.9	9934.2	2182.6	1096.2	945.7	908.6	877.4	832.4	789.4	750.3
20499.5	55°	16452.8	10284.0	1948.1	996.5	883.2	871.5	840.2	783.6	724.9	691.7
21623.1	57.5°	17191.4	10549.7	1655.0	914.5	826.5	830.5	783.6	732.8	678.0	642.9
23137.4	60°	18174.3	10905.3	1358.0	838.3	766.0	777.7	726.9	689.8	621.4	576.4
25734.3	62.5°	19745.3	11458.3	1078.6	744.5	695.6	699.5	678.0	633.1	551.0	498.3
27659.0	65°	20991.9	11255.1	850.0	642.9	615.5	621.4	621.4	572.5	484.6	424.0
27762.6	67.5°	20851.3	9637.2	678.0	543.2	539.3	543.2	556.9	515.9	429.9	381.0
25648.3	70°	19207.9	7665.6	543.2	451.4	469.0	459.2	498.3	470.9	386.9	338.0
19884.0	72.5°	15673.1	5522.0	414.3	373.2	359.5	375.2	449.4	424.0	322.4	267.7
10532.1	75°	9158.5	2946.6	308.7	295.1	259.9	312.6	398.6	361.5	246.2	197.4
3228.0	77.5°	2981.8	1027.8	226.7	216.9	193.4	252.1	340.0	304.8	201.3	156.3
945.7	80°	799.2	310.7	154.4	142.6	125.1	187.6	269.7	242.3	144.6	101.6
406.4	82.5°	320.5	130.9	89.9	80.1	68.4	129.0	213.0	195.4	107.5	64.5
127.0	85°	103.6	43.0	33.2	25.4	31.3	80.1	127.0	132.9	76.2	33.2
19.5	87.5°	13.7	5.9	5.9	7.8	5.9	13.7	39.1	37.1	21.5	3.9
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>
4496.2
3964.7
3208.5
2481.6
2026.3
1860.2
1803.6
1739.1
1649.2
1533.9
1408.8
1287.7
1191.9
1127.5
1078.6
1082.5
1047.3
967.2
889.1
822.6
777.7
746.4
687.8
639.0
570.6
494.4
418.2
373.2
332.2
261.8
191.5
150.5
99.7
64.5
25.4
0.0
0.0

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