

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: P954803

Luminaire Tested: **GALN-SB7D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954803
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-SB7D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 40395 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

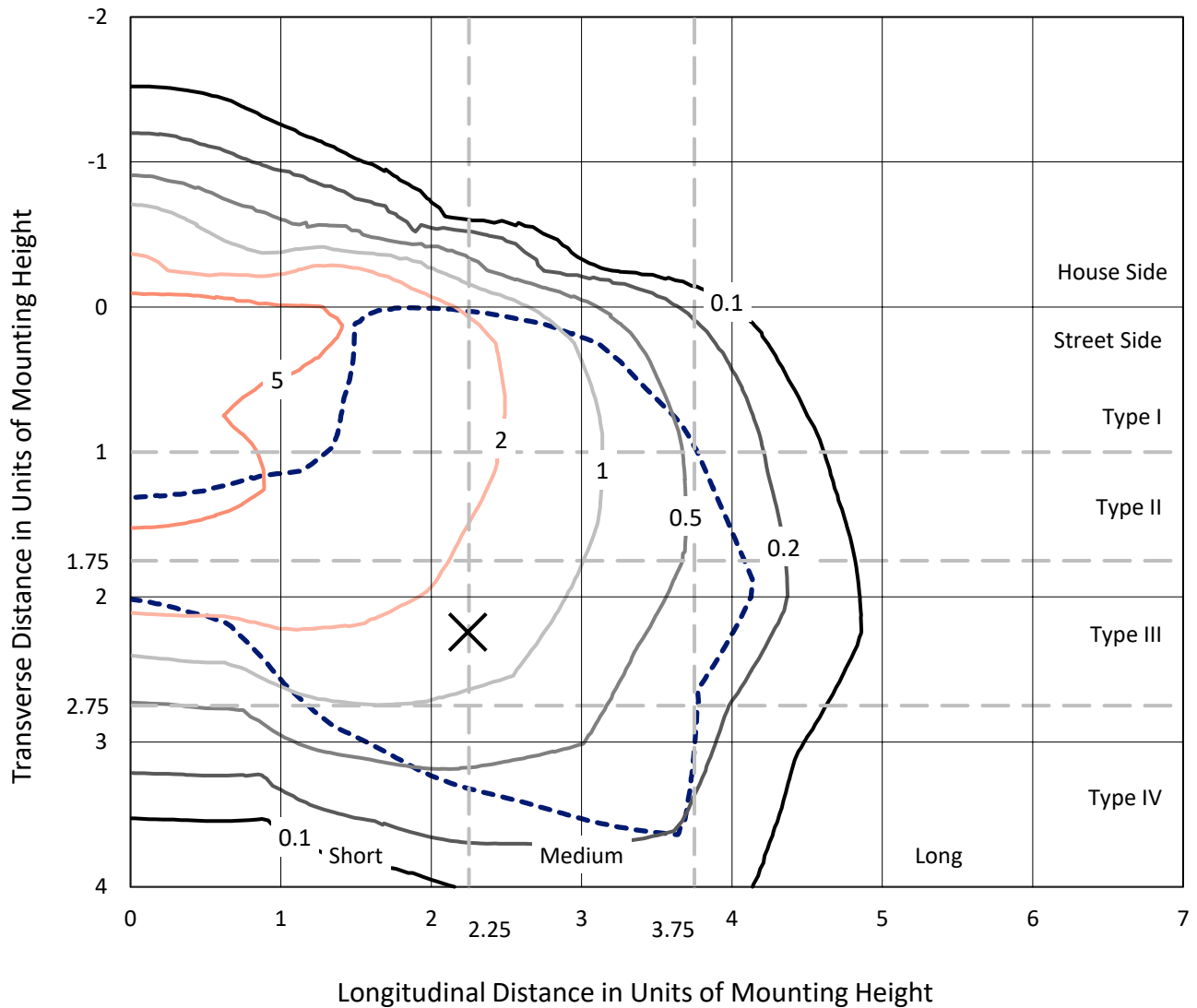
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

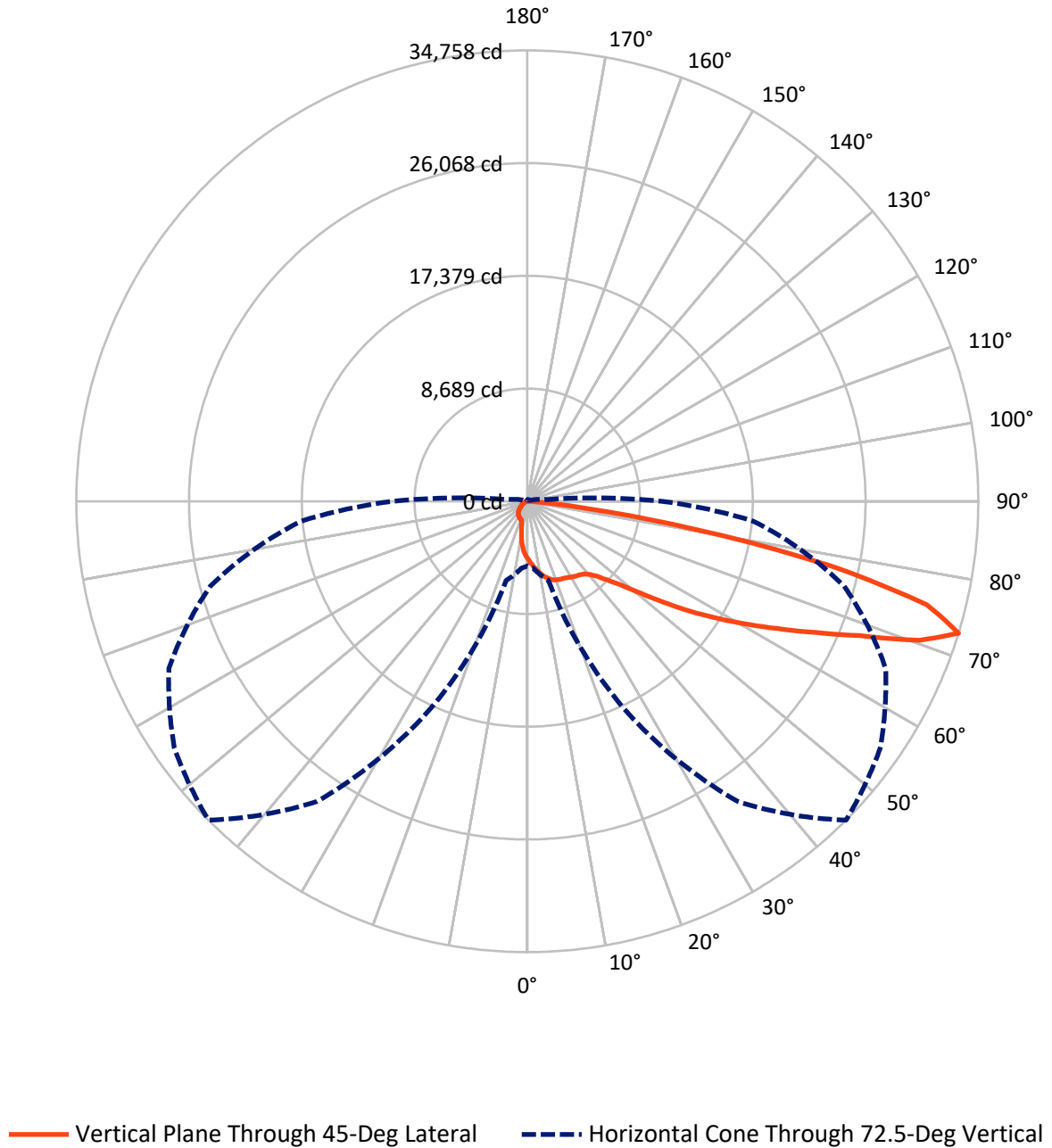
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB7D-940-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4244.4	0.0	4244.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36150.6	0.0	36150.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	40395.0	0.0	40395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.0
10°-20°	1218.6	3.0
20°-30°	2001.1	5.0
30°-40°	2838.0	7.0
40°-50°	4691.0	11.6
50°-60°	8426.9	20.9
60°-70°	11701.1	29.0
70°-80°	8487.6	21.0
80°-90°	613.6	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°	40395.0	100.0
0°-180°	40395.0	100.0

Coefficient of Utilization



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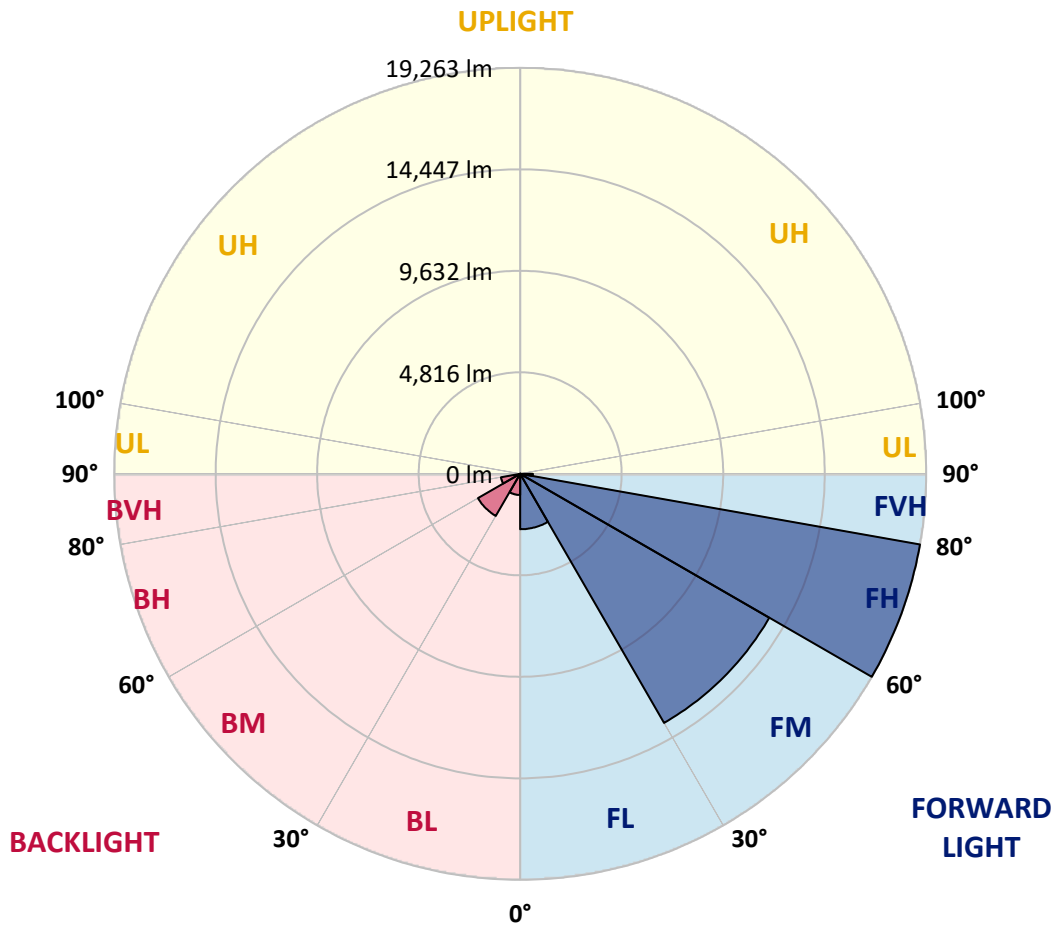
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.3	6.5			
FM (30°-60°)	13647.6	33.8			
FH (60°-80°)	19263.2	47.7			G5
FVH (80°-90°)	608.5	1.5			G4/750
BL (0°-30°)	1005.3	2.5	B3/2500		
BM (30°-60°)	2308.3	5.7	B2/2500		
BH (60°-80°)	925.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P954803
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4
2.5°	4833.4	4841.7	4836.2	4803.1	4748.0	4717.6	4701.1	4645.9	4610.1	4546.7
5°	5277.3	5310.4	5291.1	5225.0	5120.2	5045.7	5023.7	4910.6	4808.6	4690.1
7.5°	5748.8	5765.4	5729.5	5644.1	5503.4	5376.6	5357.3	5200.1	5037.5	4855.5
10°	6156.9	6176.2	6121.1	5997.0	5837.1	5679.9	5652.3	5478.6	5285.6	5062.3
12.5°	6498.8	6518.1	6446.4	6297.5	6121.1	5958.4	5930.8	5748.8	5536.5	5288.4
15°	6758.0	6793.8	6697.3	6537.4	6347.1	6184.5	6170.7	5991.5	5784.7	5509.0
17.5°	6909.6	6945.5	6854.5	6661.5	6498.8	6360.9	6344.4	6195.5	6002.5	5737.8
20°	6934.4	6967.5	6871.0	6702.8	6567.7	6457.4	6449.2	6341.6	6201.0	5947.4
22.5°	6860.0	6901.4	6813.1	6678.0	6584.3	6526.4	6515.3	6454.7	6374.7	6159.7
25°	6782.8	6815.9	6749.7	6631.1	6581.5	6576.0	6584.3	6573.2	6556.7	6374.7
27.5°	6777.3	6813.1	6738.7	6625.6	6598.1	6656.0	6664.2	6716.6	6730.4	6570.5
30°	6824.2	6849.0	6777.3	6658.7	6644.9	6777.3	6780.0	6873.8	6895.8	6735.9
32.5°	6926.2	6953.7	6882.1	6708.3	6689.0	6873.8	6882.1	7006.1	7042.0	6912.4
35°	7166.0	7199.1	7116.4	6846.2	6777.3	6964.8	6989.6	7135.7	7207.4	7099.9
37.5°	7764.4	7667.9	7554.8	7124.7	6978.6	7108.1	7149.5	7320.5	7447.3	7323.2
40°	9250.5	8947.2	8594.3	7598.9	7331.5	7414.2	7447.3	7618.2	7791.9	7670.6
42.5°	11481.1	11122.7	10554.7	8690.8	7863.6	7905.0	7929.8	8078.7	8324.1	8227.6
45°	13469.1	13339.5	12760.5	10554.7	8859.0	8655.0	8685.3	8762.5	9123.7	9087.8
47.5°	14996.6	14922.1	14475.5	12694.3	10540.9	9573.1	9658.6	9694.4	10215.5	10342.4
50°	16171.2	16143.6	15743.8	14596.8	12738.4	10926.9	10957.2	10880.0	11660.3	11974.7
52.5°	17279.6	17373.3	17078.3	16364.2	15084.8	12699.8	12694.3	12330.3	13383.6	13857.9
55°	18280.5	18313.5	18343.9	18167.4	17445.0	14718.1	14665.7	14070.2	15382.6	15873.4
57.5°	19220.7	19234.5	19504.7	19865.9	19901.7	16885.3	16788.8	16074.7	17566.3	17916.5
60°	19852.1	19915.5	20486.2	21489.9	21928.3	19121.4	19069.0	18341.1	19788.7	19951.3
62.5°	18942.2	19328.2	20767.5	22758.2	23841.8	21600.2	21575.3	20891.6	22126.8	21994.4
65°	15333.0	15986.4	18517.6	23615.7	25719.5	24368.4	24404.3	23676.4	24528.3	24098.2
67.5°	10725.6	11414.9	14409.3	23684.6	27817.7	27619.2	27826.0	26684.5	27078.8	26113.7
70°	7417.0	7772.6	9722.0	22201.2	29452.8	32096.9	32091.4	30379.2	29615.4	27031.9
72.5°	4987.8	5172.6	6314.1	17613.2	28250.6	34757.7	34597.8	33202.6	30470.2	25281.1
75°	2103.8	2238.9	2922.7	9898.5	22350.1	31799.2	31366.3	29342.5	27073.3	19907.2
77.5°	667.3	725.2	1152.5	3543.0	12311.0	23902.4	23444.7	18324.6	18145.3	9986.7
80°	317.1	369.5	647.9	1422.7	4844.5	13000.4	12936.9	8313.1	7805.7	2696.6
82.5°	137.9	162.7	358.4	761.0	2167.2	4637.7	4731.4	2828.9	2340.9	1022.9
85°	44.1	57.9	165.4	350.2	915.4	1152.5	1138.7	672.8	943.0	557.0
87.5°	0.0	0.0	55.1	80.0	93.7	66.2	74.4	57.9	261.9	154.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954803
 CATALOG NUMBER: GALN-SB7D-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4425.4	0°	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4	4425.4
4480.5	2.5°	4447.4	4403.3	4326.1	4254.4	4191.0	4127.6	4089.0	4033.8	4028.3	4028.3
4552.2	5°	4477.7	4406.1	4268.2	4122.1	3953.9	3794.0	3634.0	3479.6	3430.0	3394.2
4668.0	7.5°	4566.0	4452.9	4235.1	3956.6	3636.8	3286.6	3041.2	2776.5	2674.5	2619.4
4822.4	10°	4692.8	4538.4	4207.5	3719.5	3201.1	2724.1	2374.0	2087.2	1976.9	1930.1
4990.6	12.5°	4833.4	4643.2	4157.9	3424.5	2724.1	2153.4	1811.5	1679.2	1662.6	1662.6
5191.9	15°	5001.6	4770.0	4072.4	3077.1	2225.1	1704.0	1582.7	1588.2	1604.7	1615.7
5387.6	17.5°	5175.3	4905.1	3937.3	2688.3	1783.9	1533.0	1535.8	1544.1	1557.8	1568.9
5599.9	20°	5362.8	5040.2	3758.1	2274.7	1530.3	1483.4	1491.7	1499.9	1511.0	1516.5
5798.5	22.5°	5564.1	5167.1	3545.8	1869.4	1444.8	1442.0	1444.8	1453.1	1466.8	1466.8
6030.1	25°	5779.2	5307.7	3303.2	1574.4	1400.7	1400.7	1406.2	1411.7	1422.7	1422.7
6253.4	27.5°	5999.7	5437.3	3046.7	1420.0	1362.1	1359.3	1359.3	1367.6	1373.1	1375.9
6474.0	30°	6242.4	5588.9	2790.3	1386.9	1331.7	1318.0	1309.7	1315.2	1320.7	1323.5
6705.6	32.5°	6490.5	5735.0	2561.5	1400.7	1301.4	1276.6	1249.0	1243.5	1243.5	1254.5
6945.5	35°	6766.2	5895.0	2385.0	1447.5	1284.9	1215.9	1171.8	1147.0	1149.8	1166.3
7232.2	37.5°	7097.1	6088.0	2255.4	1488.9	1273.8	1147.0	1075.3	1045.0	1025.7	1045.0
7626.5	40°	7530.0	6372.0	2161.7	1522.0	1260.1	1067.0	970.5	920.9	885.1	896.1
8238.6	42.5°	8166.9	6818.6	2125.8	1524.7	1229.7	973.3	863.0	796.8	744.5	747.2
9159.5	45°	9060.3	7524.5	2310.6	1488.9	1163.6	871.3	750.0	661.7	628.6	620.4
10535.4	47.5°	10284.5	8552.9	2737.9	1414.5	1067.0	772.0	639.7	565.2	540.4	526.6
12341.4	50°	11925.0	9873.6	3212.2	1331.7	970.5	678.3	548.7	501.8	485.3	471.5
14483.7	52.5°	13827.5	11213.7	3600.9	1249.0	874.0	595.6	490.8	463.2	449.4	438.4
16551.7	55°	15572.8	12137.3	3578.9	1160.8	780.3	529.4	449.4	432.9	416.3	405.3
18332.8	57.5°	16659.2	12266.9	2950.2	1064.3	672.8	477.0	410.8	399.8	380.5	366.7
19874.1	60°	17158.3	11528.0	2067.9	937.5	565.2	427.4	369.5	364.0	339.1	319.8
21332.7	62.5°	17249.2	10154.9	1378.6	780.3	471.5	380.5	328.1	319.8	286.8	253.7
22518.3	65°	16879.8	8191.7	954.0	609.3	402.6	330.9	281.2	264.7	228.9	195.8
22799.6	67.5°	15710.7	5751.6	664.5	438.4	341.9	261.9	223.3	217.8	190.2	162.7
21365.8	70°	13568.3	3278.3	443.9	328.1	270.2	179.2	176.5	182.0	154.4	132.3
17456.0	72.5°	10403.0	1499.9	275.7	239.9	184.7	121.3	140.6	143.4	118.6	99.3
10891.1	75°	6123.8	642.4	173.7	154.4	93.7	80.0	102.0	104.8	80.0	63.4
3981.4	77.5°	2084.5	242.6	110.3	91.0	46.9	44.1	66.2	66.2	44.1	24.8
799.6	80°	474.2	91.0	55.1	35.8	22.1	19.3	22.1	19.3	11.0	2.8
245.4	82.5°	135.1	35.8	22.1	13.8	8.3	8.3	2.8	0.0	0.0	0.0
85.5	85°	38.6	16.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
30.3	87.5°	16.5	2.8	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>
4425.4
4042.1
3410.7
2627.6
1930.1
1662.6
1615.7
1568.9
1519.2
1472.4
1425.5
1378.6
1329.0
1262.8
1174.6
1039.5
890.6
736.2
609.3
518.4
468.7
435.6
399.8
364.0
314.3
237.1
184.7
154.4
121.3
88.2
55.1
19.3
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