

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: P957655

Luminaire Tested: **GALN-SB9D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957655
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-SB9D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 51330 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

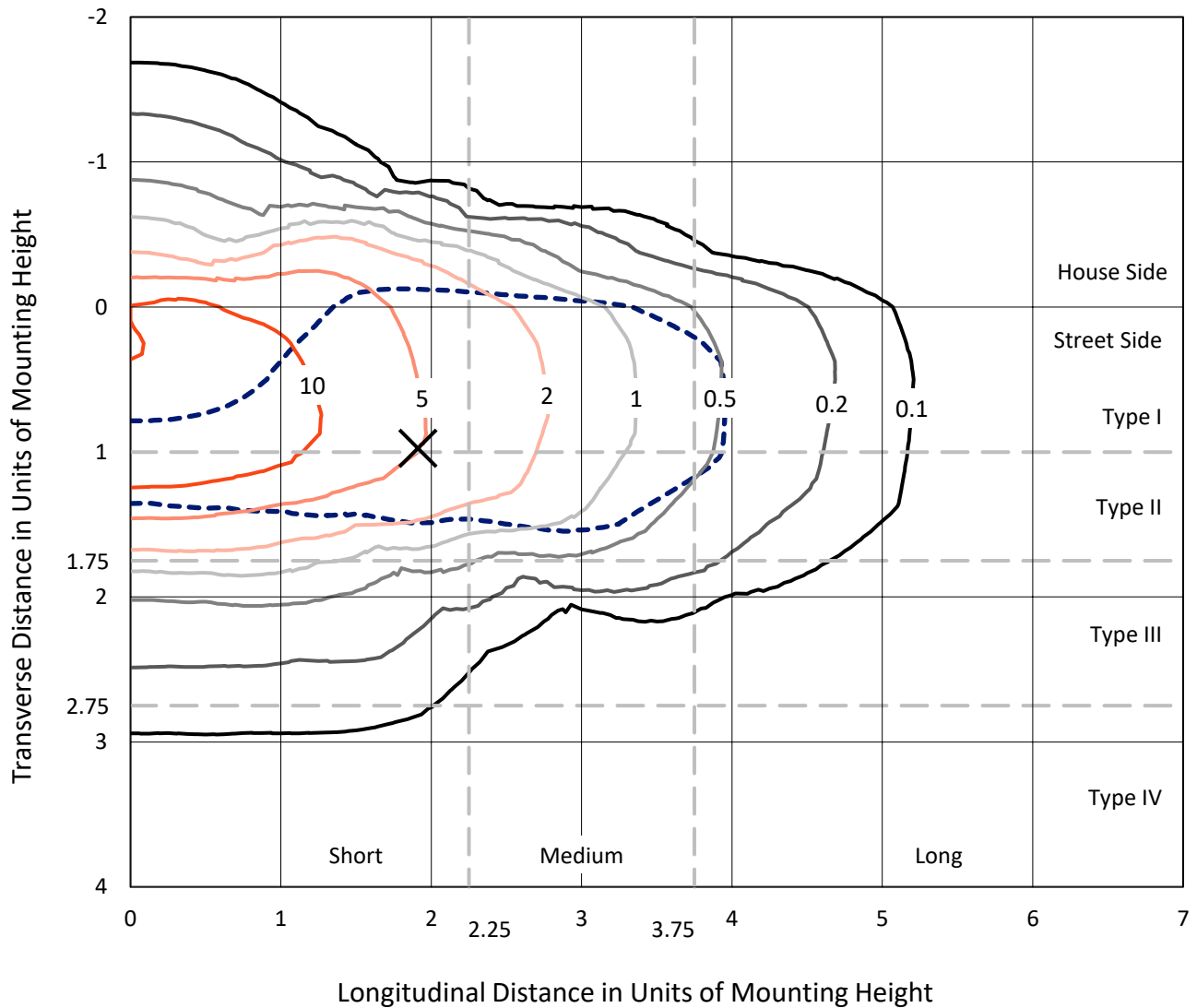
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

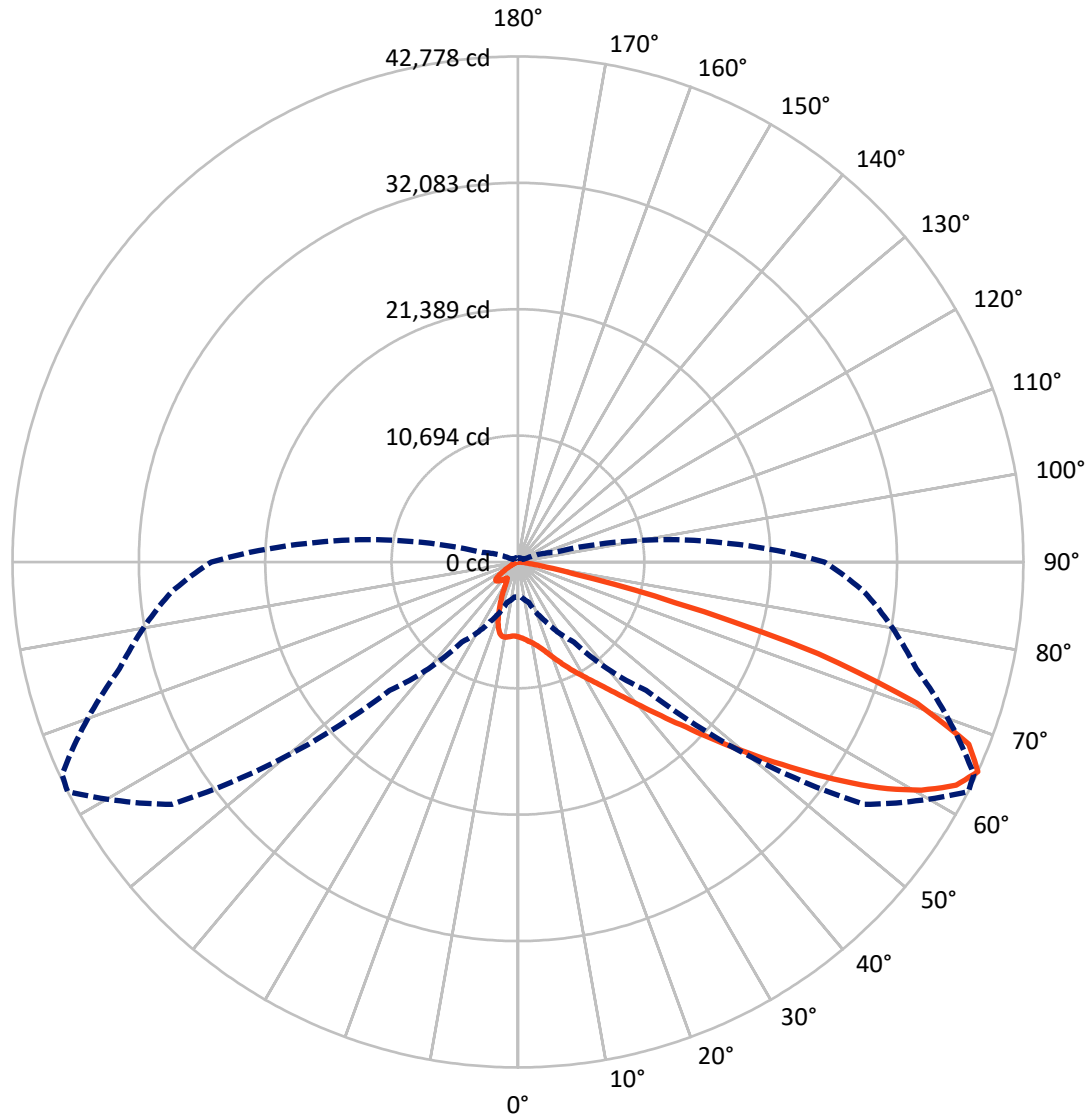
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	7545.1	0.0	7545.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43784.9	0.0	43784.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	51330.0	0.0	51330.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.9	1.2
10°-20°	1656.1	3.2
20°-30°	2883.8	5.6
30°-40°	5197.7	10.1
40°-50°	10308.6	20.1
50°-60°	14042.1	27.4
60°-70°	11208.3	21.8
70°-80°	5072.0	9.9
80°-90°	364.6	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°	51330.0	100.0
0°-180°	51330.0	100.0



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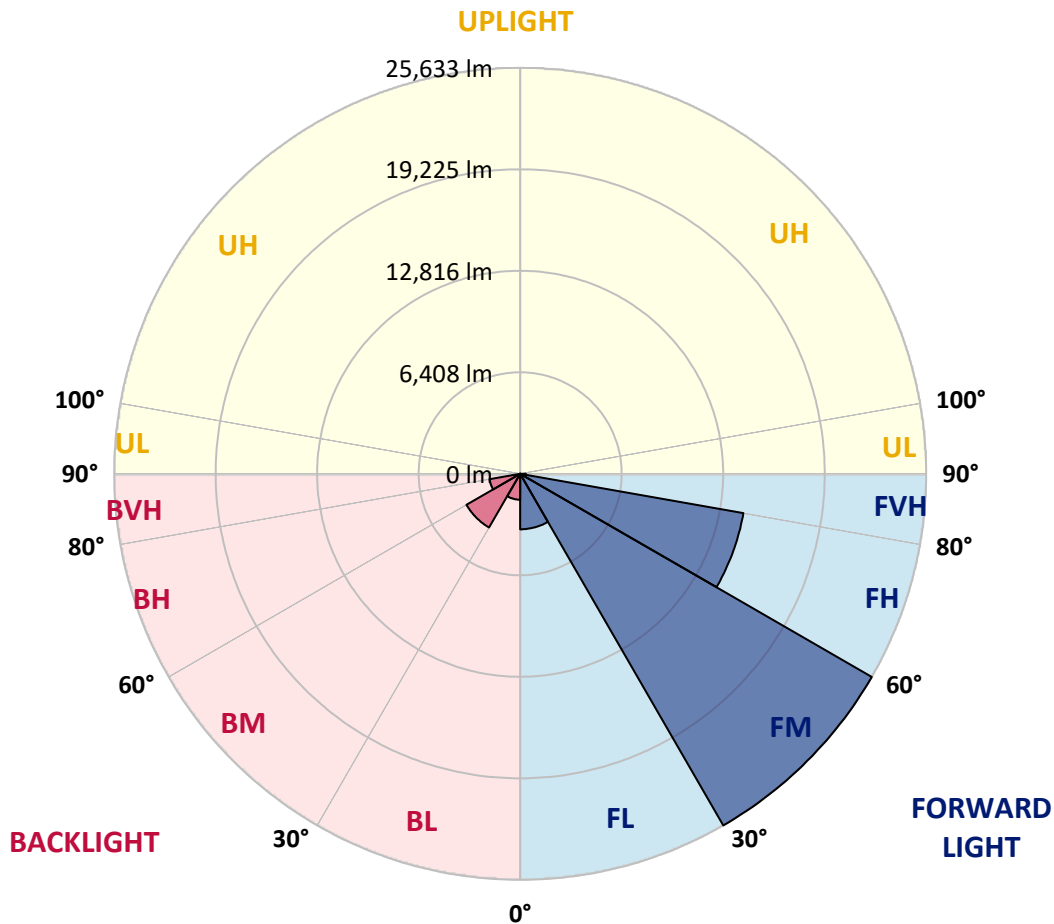
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3503.9	6.8			
FM (30°-60°)	25632.9	49.9			
FH (60°-80°)	14310.6	27.9			G5
FVH (80°-90°)	337.5	0.7			G3/500
BL (0°-30°)	1632.9	3.2	B3/2500		
BM (30°-60°)	3915.5	7.6	B3/5000		
BH (60°-80°)	1969.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	27.1	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1
2.5°	6483.4	6465.7	6490.5	6479.9	6472.8	6458.7	6451.6	6444.6	6430.4	6419.8
5°	6501.1	6490.5	6515.2	6536.4	6557.6	6578.7	6589.3	6603.5	6589.3	6561.1
7.5°	6352.7	6345.7	6398.7	6462.2	6557.6	6638.8	6727.1	6776.5	6780.0	6769.4
10°	6342.2	6324.5	6377.5	6455.2	6578.7	6723.5	6878.9	6984.8	6999.0	7044.9
12.5°	6508.1	6490.5	6564.6	6649.4	6776.5	6928.3	7119.0	7267.3	7288.5	7352.1
15°	6787.1	6762.4	6847.1	6956.6	7119.0	7292.1	7493.3	7627.5	7645.2	7722.9
17.5°	7112.0	7087.3	7186.1	7302.7	7479.2	7715.8	7948.9	8097.2	8118.4	8167.8
20°	7528.7	7496.9	7574.6	7680.5	7867.7	8150.2	8429.1	8641.0	8637.5	8637.5
22.5°	8012.4	7963.0	8030.1	8114.9	8291.4	8633.9	9004.7	9255.4	9255.4	9156.6
25°	8531.5	8482.1	8556.3	8633.9	8789.3	9177.8	9612.1	9922.9	9937.0	9767.5
27.5°	9181.3	9117.7	9174.2	9266.0	9357.9	9753.4	10268.9	10629.1	10636.2	10374.9
30°	10431.4	10251.3	10074.7	9975.8	10018.2	10410.2	10961.1	11360.1	11395.4	11035.2
32.5°	12719.6	12684.3	12062.8	11250.6	10826.9	11116.4	11734.4	12214.7	12235.8	11773.2
35°	16275.6	16233.2	15233.9	13687.2	12306.5	12062.8	12673.7	13242.2	13228.1	12705.5
37.5°	20520.2	20481.3	19164.2	17094.9	14859.6	13493.0	13884.9	14481.7	14570.0	13884.9
40°	24146.8	24002.0	23168.6	21173.5	18249.6	15866.0	15608.2	16003.7	16095.5	15283.3
42.5°	26894.1	26770.5	26346.8	25100.2	22352.9	19376.1	17638.7	17790.5	17892.9	16918.3
45°	28317.2	28289.0	28458.5	28341.9	26533.9	23684.2	20541.4	19909.3	19948.1	18729.8
47.5°	28518.5	28504.4	29277.7	30372.4	30128.8	28543.2	24266.9	22550.7	22412.9	20774.4
50°	27332.0	27303.8	28786.9	30838.5	32530.0	32625.4	28497.3	25527.5	25223.8	22889.7
52.5°	23543.0	23535.9	25972.5	29387.2	33374.0	36199.0	32678.3	28797.5	28289.0	25128.5
55°	18115.4	18246.1	21039.3	25075.5	31834.4	37918.7	36432.1	32427.6	31647.2	27381.4
57.5°	12832.6	13023.3	15784.8	19379.6	27060.1	36901.7	38971.1	36064.8	35224.4	29627.3
60°	6893.0	7062.5	9827.5	14118.0	20131.7	33109.2	40309.4	39221.8	38427.2	31760.2
62.5°	4106.9	4163.4	5307.5	9114.2	13616.6	25294.5	39740.9	41626.6	40973.3	33550.6
65°	2948.6	2959.2	3534.8	5565.3	8266.7	15368.1	35754.1	42777.8	42576.5	34899.5
67.5°	2482.5	2475.4	2715.5	3697.2	5632.4	7698.2	27402.6	41149.8	42004.4	35754.1
70°	2129.4	2139.9	2422.4	2708.5	4234.0	4357.6	13623.6	35828.2	37650.4	35980.1
72.5°	1585.5	1620.9	1882.2	2468.4	3195.8	2998.0	4703.6	26565.7	29860.4	33900.2
75°	1119.4	1137.1	1324.2	2076.4	2383.6	2182.3	2401.3	13733.1	17956.5	25990.1
77.5°	861.6	893.4	1002.9	1451.4	2348.3	1532.6	1469.0	4753.1	7302.7	15700.0
80°	466.1	522.6	723.9	1048.8	1649.1	1084.1	727.4	1892.8	2475.4	7341.5
82.5°	240.1	268.4	505.0	755.7	939.3	946.4	360.2	787.5	1020.5	2267.1
85°	95.3	116.5	339.0	416.7	483.8	466.1	162.4	317.8	367.3	628.6
87.5°	21.2	35.3	123.6	95.3	91.8	98.9	38.8	74.2	70.6	74.2
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°
6335.1	0°	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1
6377.5	2.5°	6373.9	6359.8	6321.0	6278.6	6229.2	6200.9	6183.2	6179.7	6155.0	6137.3
6518.7	5°	6479.9	6465.7	6391.6	6303.3	6208.0	6133.8	6063.2	5999.6	5907.8	5890.2
6723.5	7.5°	6691.7	6652.9	6532.8	6412.8	6232.7	6017.3	5756.0	5455.8	5187.4	5106.2
6995.4	10°	6953.1	6900.1	6748.3	6536.4	6137.3	5551.2	4919.1	4332.9	3866.7	3736.1
7316.8	12.5°	7249.7	7203.8	7002.5	6610.5	5738.3	4675.4	3707.8	2980.4	2528.4	2415.4
7659.3	15°	7602.8	7535.7	7256.8	6497.5	5025.0	3552.5	2546.0	2115.2	1952.8	1931.6
8051.3	17.5°	7977.1	7867.7	7482.8	6091.4	4064.5	2524.9	1966.9	1843.3	1772.7	1751.5
8446.8	20°	8319.7	8178.4	7616.9	5477.0	3036.9	1966.9	1762.1	1680.9	1617.3	1592.6
8842.3	22.5°	8662.2	8460.9	7616.9	4640.1	2277.7	1744.4	1617.3	1543.2	1469.0	1437.2
9266.0	25°	9018.9	8750.5	7482.8	3707.8	1832.7	1599.7	1479.6	1398.4	1334.8	1296.0
9668.6	27.5°	9364.9	8994.1	7175.5	2825.0	1631.4	1472.5	1352.5	1274.8	1214.8	1186.5
10106.5	30°	9693.3	9234.3	6744.7	2143.5	1500.8	1348.9	1235.9	1168.8	1108.8	1080.6
10675.0	32.5°	10138.3	9538.0	6285.7	1758.6	1387.8	1232.4	1130.0	1066.4	1013.5	992.3
11413.1	35°	10756.2	9986.4	5890.2	1726.8	1292.4	1137.1	1034.7	974.6	921.7	904.0
12366.5	37.5°	11632.0	10710.3	5681.8	1938.7	1214.8	1052.3	957.0	893.4	844.0	829.8
13577.7	40°	12712.6	11692.0	5794.8	2150.5	1161.8	978.2	886.3	822.8	780.4	762.8
14969.0	42.5°	13994.4	12903.2	6419.8	2313.0	1126.5	914.6	819.3	748.6	720.4	713.3
16547.5	45°	15466.9	14234.5	7376.8	2486.0	1070.0	854.6	752.2	699.2	678.0	674.5
18263.7	47.5°	17140.8	15696.5	8485.6	2701.4	1013.5	798.1	699.2	663.9	646.2	639.2
20054.1	50°	18800.5	17169.0	9626.2	2821.5	967.6	745.1	656.8	628.6	614.4	610.9
21946.8	52.5°	20537.8	18683.9	10547.9	2708.5	928.7	702.7	621.5	600.3	586.2	582.7
23691.3	55°	22194.0	19909.3	10706.8	2298.9	851.0	660.3	582.7	572.1	554.4	554.4
25460.4	57.5°	23620.6	20523.7	9583.9	1687.9	773.3	596.8	543.8	533.2	519.1	515.6
27056.6	60°	24930.7	20347.2	7398.0	1137.1	688.6	533.2	494.4	487.3	473.2	455.5
28444.4	62.5°	25668.8	19570.3	5060.3	741.6	603.8	466.1	437.9	434.3	402.6	367.3
29471.9	65°	25947.7	17974.1	3157.0	540.3	505.0	399.0	377.8	370.8	324.9	286.0
30054.6	67.5°	25704.1	15346.9	1592.6	427.3	399.0	331.9	310.8	310.8	279.0	243.7
30019.3	70°	24729.5	11504.9	670.9	342.5	307.2	254.3	254.3	268.4	236.6	197.8
28462.0	72.5°	22614.2	7740.5	356.7	261.3	229.5	180.1	208.3	218.9	187.2	148.3
23295.8	75°	17977.7	4721.3	247.2	194.2	144.8	127.1	158.9	166.0	127.1	98.9
15971.9	77.5°	12295.9	2712.0	166.0	123.6	91.8	74.2	109.5	102.4	67.1	45.9
6158.5	80°	5399.3	1130.0	95.3	56.5	35.3	28.3	38.8	28.3	21.2	14.1
844.0	82.5°	632.1	264.8	35.3	21.2	14.1	7.1	3.5	0.0	0.0	0.0
257.8	85°	130.7	31.8	17.7	7.1	3.5	0.0	0.0	0.0	0.0	0.0
45.9	87.5°	24.7	7.1	3.5	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>
6335.1
6155.0
5883.1
5067.4
3686.6
2383.6
1910.4
1740.9
1578.5
1419.6
1281.8
1186.5
1084.1
992.3
904.0
826.3
759.2
713.3
670.9
639.2
610.9
582.7
550.9
512.0
452.0
360.2
282.5
240.1
194.2
148.3
95.3
49.4
14.1
0.0
0.0
0.0
0.0

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