

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: P954802

Luminaire Tested: **GALN-SB7D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53836 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

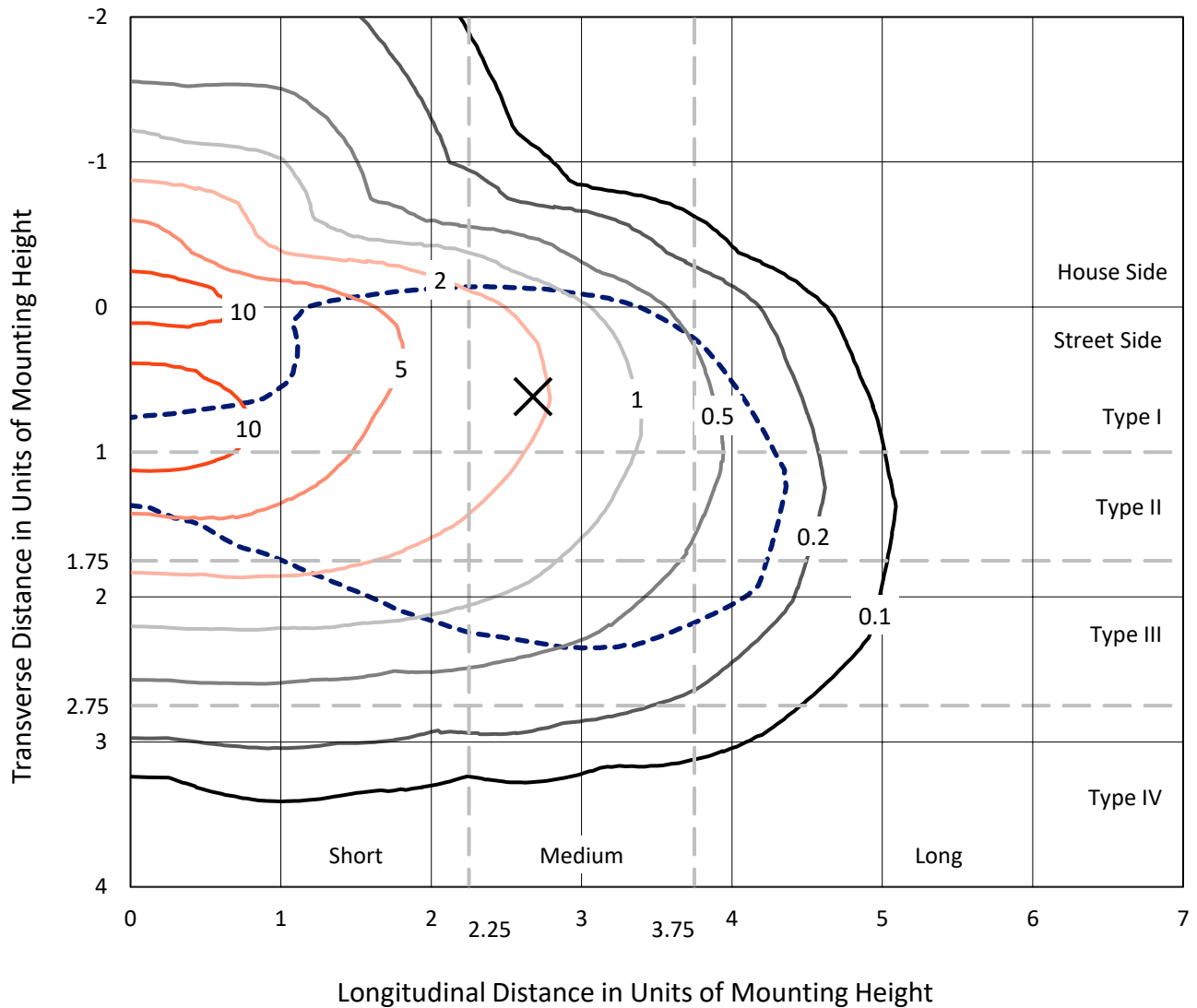
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

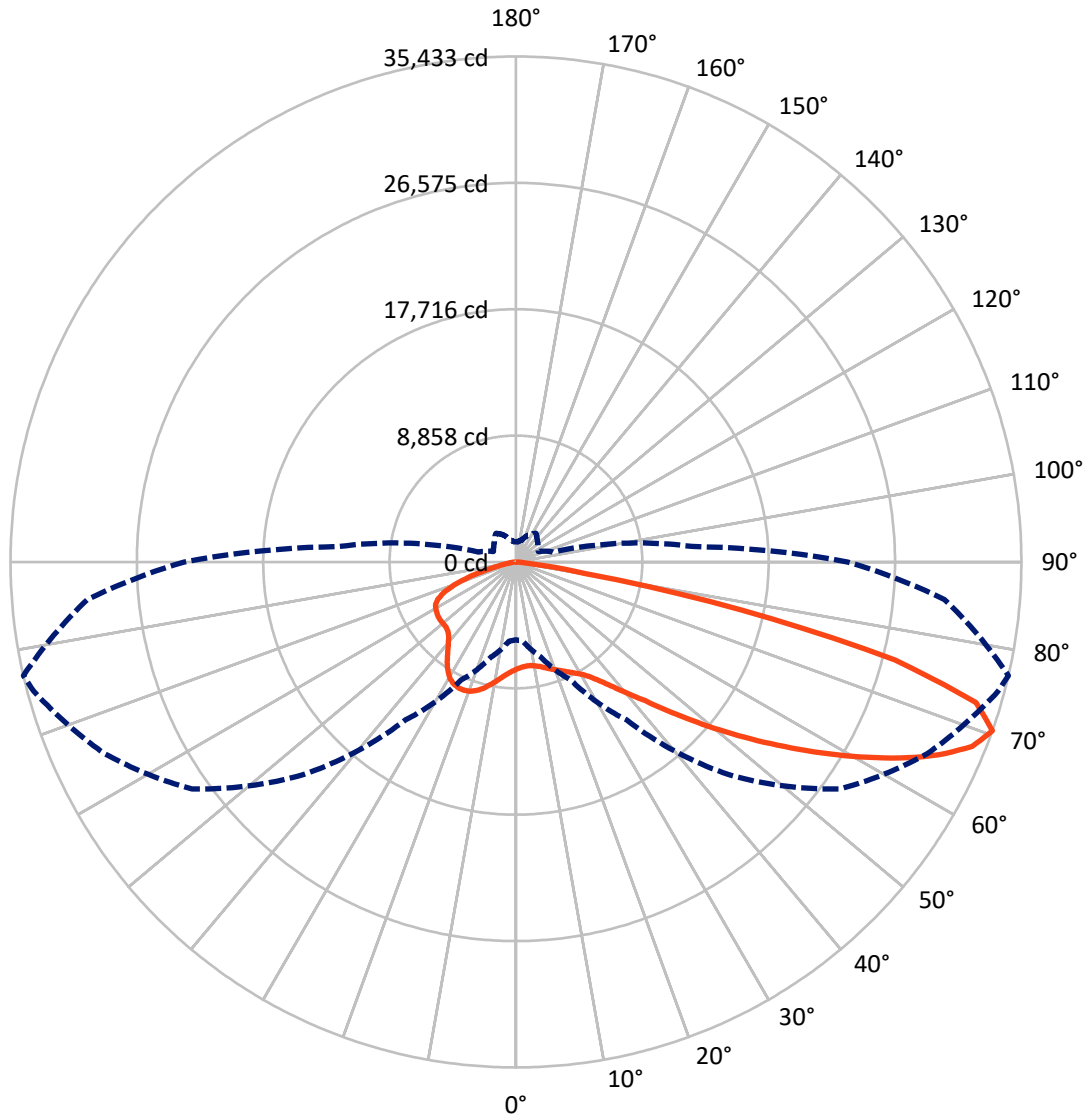
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11789.2	0.0	11789.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	42046.8	0.0	42046.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	53836.0	0.0	53836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.3	1.3
10°-20°	2067.3	3.8
20°-30°	3535.4	6.6
30°-40°	5685.3	10.6
40°-50°	8876.3	16.5
50°-60°	11856.7	22.0
60°-70°	12637.4	23.5
70°-80°	7779.5	14.5
80°-90°	681.7	1.3
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°	53836.0	100.0
0°-180°	53836.0	100.0



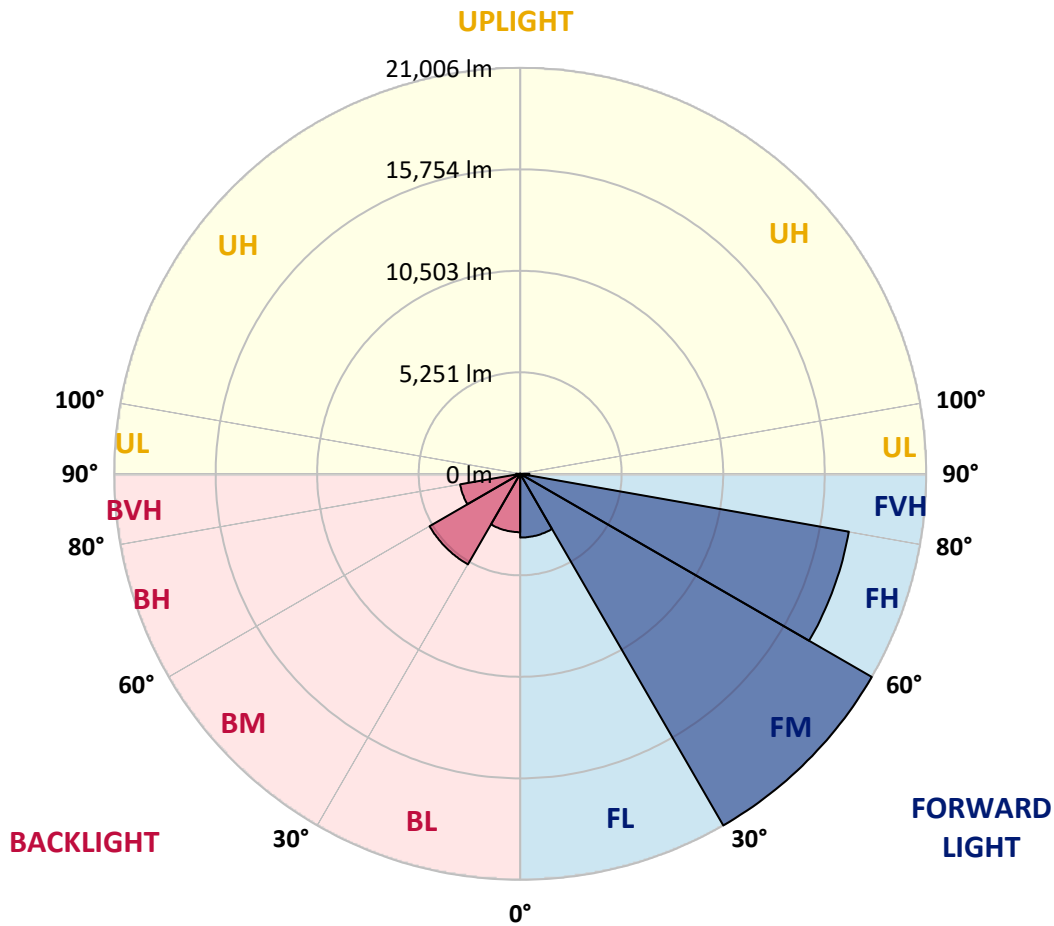
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.3	6.1			
FM (30°-60°)	21005.6	39.0			
FH (60°-80°)	17266.1	32.1			G5
FVH (80°-90°)	476.7	0.9			G3/500
BL (0°-30°)	3020.8	5.6	B4/5000		
BM (30°-60°)	5412.7	10.1	B4/8500		
BH (60°-80°)	3150.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	205.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6
2.5°	6923.3	6920.6	6956.4	6967.4	7033.6	7080.5	7168.7	7262.5	7383.8	7397.6
5°	6523.5	6523.5	6564.9	6609.0	6694.5	6788.2	6923.3	7086.0	7295.6	7328.6
7.5°	6184.4	6206.5	6242.3	6327.8	6427.0	6562.1	6768.9	7000.5	7276.3	7328.6
10°	5911.4	5936.3	5980.4	6049.3	6198.2	6385.7	6655.9	6953.7	7323.1	7405.8
12.5°	5826.0	5850.8	5875.6	5928.0	6065.8	6286.4	6609.0	6975.7	7436.2	7518.9
15°	6024.5	6054.8	6035.5	6021.7	6093.4	6294.7	6631.1	7055.7	7576.8	7695.3
17.5°	6482.2	6493.2	6449.1	6319.5	6308.5	6416.0	6735.8	7166.0	7753.2	7882.8
20°	7221.1	7201.8	7110.8	6854.4	6708.3	6686.2	6915.1	7331.4	7935.2	8073.1
22.5°	8224.7	8202.7	8020.7	7615.4	7290.0	7075.0	7174.2	7546.5	8139.3	8293.7
25°	9476.5	9446.2	9178.7	8627.3	8122.7	7590.6	7527.2	7830.4	8390.2	8533.5
27.5°	10937.8	10913.0	10623.5	9895.6	9167.7	8296.4	7965.6	8164.1	8652.1	8814.8
30°	12509.4	12581.1	12068.3	11285.2	10364.3	9217.3	8555.6	8574.9	8991.2	9137.4
32.5°	14356.7	14480.8	13863.2	12870.6	11613.3	10218.2	9300.0	9148.4	9484.8	9606.1
35°	16187.5	16328.1	15815.3	14717.9	13270.4	11398.3	10077.6	9807.4	10141.0	10273.3
37.5°	17770.2	17957.6	17693.0	16739.0	15043.3	12821.0	11092.2	10582.1	10948.8	11114.3
40°	19019.2	19305.9	19286.6	18691.1	17133.2	14547.0	12379.8	11538.9	11952.5	12131.7
42.5°	20033.8	20282.0	20497.0	20466.7	19314.2	16507.4	13893.5	12782.4	13096.7	13303.5
45°	20734.1	20998.8	21462.0	21961.1	21412.4	18605.6	15627.8	14257.5	14544.2	14855.8
47.5°	21360.0	21660.6	22261.6	23053.0	23193.6	20712.1	17527.5	15975.2	16237.2	16559.7
50°	21415.2	21674.4	22606.3	23728.5	24459.1	22735.9	19567.8	17902.5	18147.9	18492.5
52.5°	20083.4	20491.5	22118.3	23709.2	25040.9	24428.8	21594.4	19907.0	20182.7	20596.3
55°	15589.2	16187.5	20687.3	22970.2	24834.1	25523.4	23521.7	22038.3	22391.2	22824.1
57.5°	13427.6	13689.5	16421.9	21624.7	23891.1	25807.4	25148.4	24191.7	24759.7	25233.9
60°	12068.3	12286.1	13901.8	19532.0	22650.4	25358.0	26405.7	26198.9	27180.5	27745.7
62.5°	10612.5	10819.3	12288.8	16308.8	21062.3	24610.8	27199.8	28051.8	29662.0	30279.6
65°	9167.7	9344.2	10753.1	13703.3	19044.0	23863.6	27610.6	29653.7	31958.7	32598.4
67.5°	7557.5	7703.6	9035.3	11560.9	16590.1	22840.6	27814.6	30913.7	33957.7	34506.4
70°	5453.7	5566.8	6942.6	9142.9	13510.3	21081.6	27731.9	31807.1	34994.4	35432.8
72.5°	2578.0	2680.0	4295.7	5936.3	9542.7	17657.1	26058.3	31098.5	33941.1	33723.3
75°	1375.8	1464.1	2467.7	3256.3	5040.2	12104.1	21324.2	26789.0	28501.2	27442.4
77.5°	931.9	1000.9	1527.5	1954.9	2302.3	5746.0	13706.0	18547.7	17844.6	16096.5
80°	738.9	810.6	1251.8	1323.5	1113.9	2076.2	5663.3	8585.9	6167.9	4932.6
82.5°	568.0	647.9	1053.3	959.5	606.6	852.0	1648.8	2715.8	1579.9	1202.1
85°	347.4	432.9	827.2	612.1	341.9	388.8	559.7	755.5	482.5	402.6
87.5°	176.5	248.1	419.1	223.3	154.4	91.0	148.9	148.9	126.8	110.3
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°
7510.6	0°	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6	7510.6
7472.0	2.5°	7538.2	7593.3	7687.1	7775.3	7844.2	7910.4	7976.6	8012.4	8023.5	8067.6
7513.4	5°	7626.4	7728.4	7910.4	8081.4	8188.9	8255.1	8301.9	8329.5	8335.0	8348.8
7626.4	7.5°	7789.1	7951.8	8205.4	8376.4	8456.3	8450.8	8431.5	8362.6	8335.0	8310.2
7791.8	10°	8017.9	8233.0	8544.6	8663.1	8613.5	8481.1	8310.2	8108.9	8015.2	7924.2
8017.9	12.5°	8301.9	8574.9	8880.9	8875.4	8630.0	8290.9	7893.9	7585.1	7389.3	7248.7
8296.4	15°	8646.6	8960.9	9195.3	9007.8	8470.1	7860.8	7279.0	6876.5	6700.0	6545.6
8577.6	17.5°	9002.3	9338.6	9446.2	8966.4	8067.6	7223.9	6564.9	6247.8	6074.1	5991.4
8880.9	20°	9349.7	9683.3	9595.1	8729.3	7455.5	6501.5	5914.2	5740.5	5704.6	5723.9
9176.0	22.5°	9716.4	10014.2	9625.4	8271.6	6675.2	5762.5	5440.0	5445.5	5525.4	5583.3
9484.8	25°	10091.4	10292.6	9545.4	7609.9	5837.0	5219.4	5139.4	5227.7	5384.8	5497.9
9832.2	27.5°	10452.5	10540.8	9371.7	6791.0	5117.4	4830.6	4844.4	5026.4	5263.5	5420.7
10254.0	30°	10860.6	10761.4	9038.1	5870.1	4618.3	4497.0	4612.8	4825.1	5062.2	5202.8
10786.2	32.5°	11321.1	10951.6	8508.7	5018.1	4265.4	4229.5	4419.8	4557.7	4662.4	4703.8
11492.0	35°	11894.6	11219.0	7830.4	4419.8	3948.3	4033.8	4215.8	4146.8	4105.5	4083.4
12440.5	37.5°	12639.0	11580.2	7036.4	4031.0	3691.9	3893.2	3967.6	3752.5	3589.9	3509.9
13590.2	40°	13535.1	12109.6	6272.6	3730.5	3529.2	3771.8	3642.3	3383.1	3176.3	3063.2
14883.4	42.5°	14530.4	12663.8	5630.2	3504.4	3438.2	3672.6	3402.4	3093.6	2760.0	2724.1
16424.6	45°	15575.4	13234.6	5191.8	3330.7	3394.1	3587.1	3264.5	2765.5	2528.4	2674.5
17971.4	47.5°	16620.4	13758.4	4927.1	3201.1	3372.1	3490.6	3143.2	2583.5	2415.3	2627.6
19628.5	50°	17783.9	14227.2	4808.6	3107.4	3347.2	3452.0	2961.2	2536.6	2296.7	2437.4
21343.5	52.5°	18939.2	14591.1	4720.3	3013.6	3311.4	3421.7	2873.0	2481.5	2153.4	2161.6
23069.5	55°	20091.7	14828.2	4623.8	2889.5	3231.4	3355.5	2864.7	2420.8	2045.8	2007.2
24894.8	57.5°	21321.4	14963.3	4505.3	2751.7	3093.6	3187.3	2856.5	2373.9	2012.8	1949.3
26761.4	60°	22573.2	15161.8	4350.9	2583.5	2908.8	2986.0	2837.2	2357.4	1993.5	1885.9
28520.5	62.5°	23695.4	15230.8	4166.1	2423.6	2671.7	2787.5	2795.8	2343.6	1941.1	1756.3
29981.8	65°	24431.6	14933.0	3843.5	2241.6	2415.3	2583.5	2715.8	2296.7	1847.3	1662.6
30704.2	67.5°	24401.2	14083.8	3339.0	2007.2	2167.2	2357.4	2600.0	2216.8	1734.3	1546.8
30158.3	70°	23265.3	12407.4	2699.3	1734.3	1894.2	2114.8	2451.2	2098.2	1599.2	1420.0
26816.5	72.5°	19953.9	9710.9	1960.4	1414.4	1577.1	1863.9	2258.1	1954.9	1461.3	1306.9
19818.8	75°	14254.7	6145.8	1329.0	1086.3	1227.0	1579.9	2018.3	1786.7	1334.5	1312.4
9925.9	77.5°	7281.8	2936.4	879.5	794.1	854.7	1246.3	1695.7	1596.4	1353.8	1083.6
2823.4	80°	2368.4	1083.6	554.2	540.4	568.0	829.9	1312.4	1309.7	1025.7	736.2
683.8	82.5°	755.5	466.0	361.2	347.4	333.6	521.1	915.4	1036.7	692.1	466.0
245.4	85°	300.5	278.5	212.3	195.8	140.6	245.4	479.8	689.3	515.6	336.4
63.4	87.5°	110.3	110.3	57.9	41.4	30.3	82.7	129.6	206.8	295.0	173.7
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>
7510.6
8092.4
8370.9
8315.7
7896.6
7215.6
6529.0
6016.2
5715.7
5597.1
5528.2
5459.3
5235.9
4725.8
4105.5
3529.2
3071.5
2760.0
2751.7
2726.9
2542.1
2219.5
2034.8
1957.6
1894.2
1756.3
1662.6
1555.1
1436.5
1298.6
1238.0
965.0
650.7
463.2
344.7
170.9
0.0

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