

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: P949048

Luminaire Tested: **GALN-SB3D-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949048
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-SB3D-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21804 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

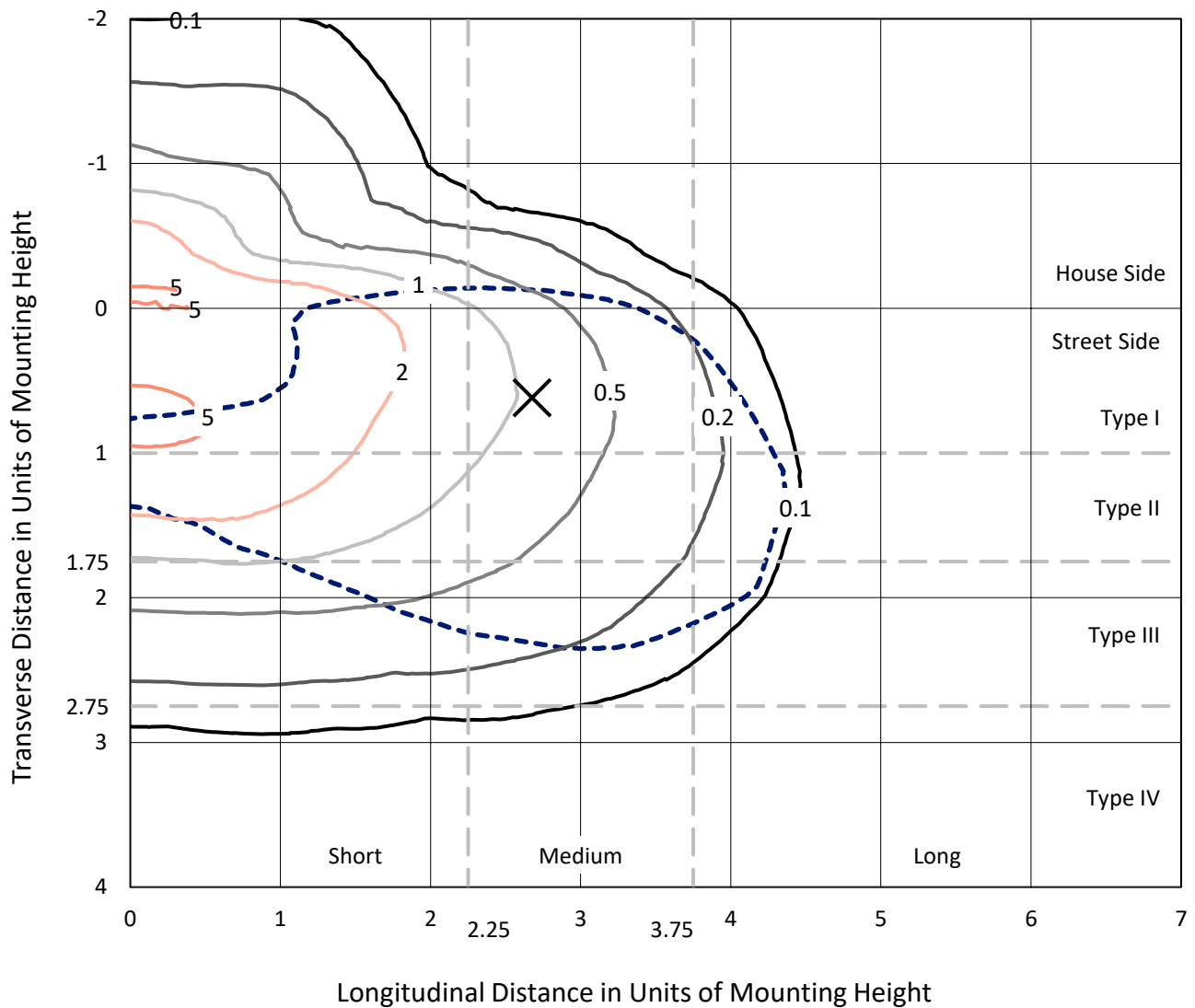
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

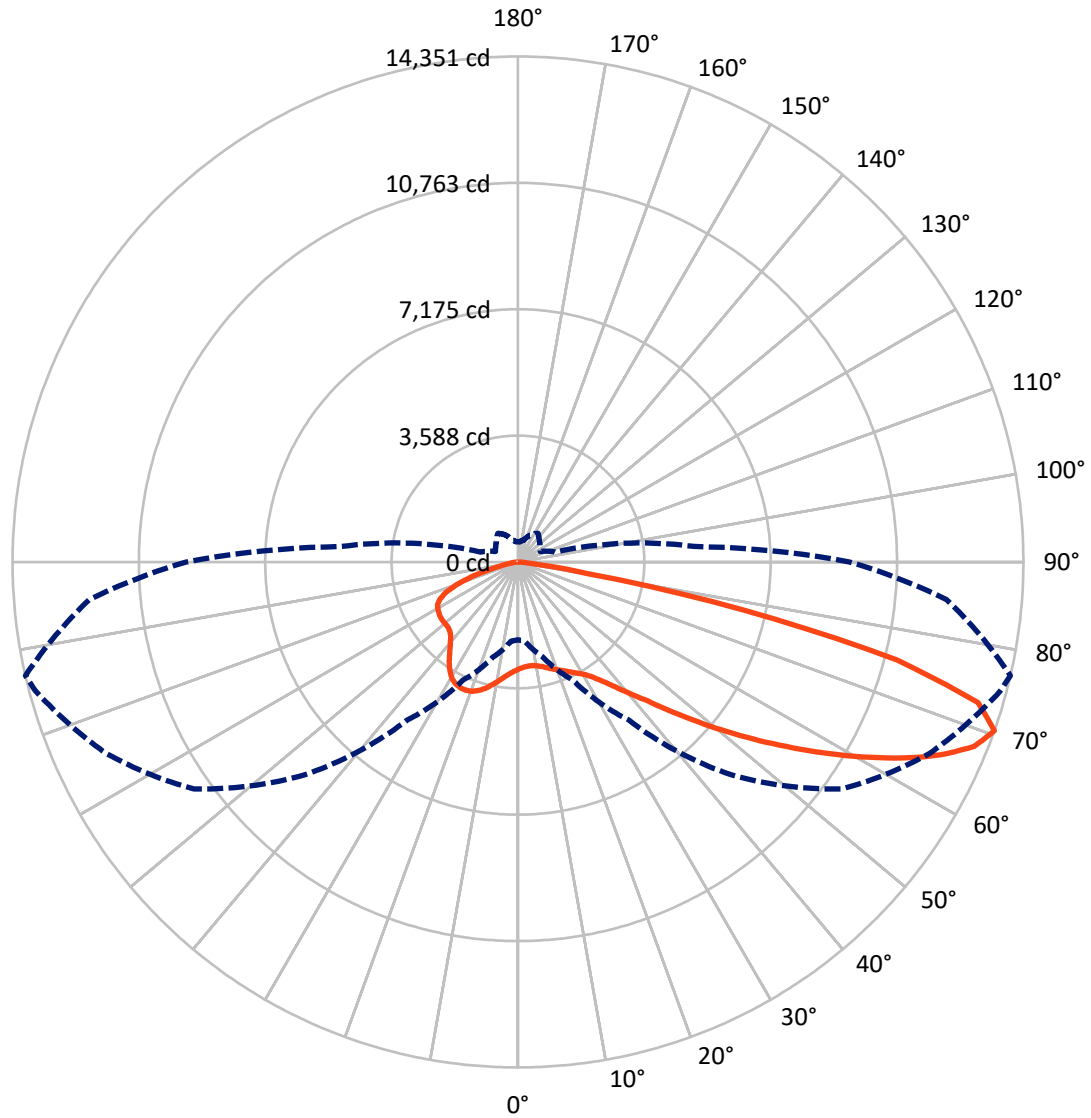
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	4774.7	0.0	4774.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17029.3	0.0	17029.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	21804.0	0.0	21804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	1.3
10°-20°	837.3	3.8
20°-30°	1431.9	6.6
30°-40°	2302.6	10.6
40°-50°	3595.0	16.5
50°-60°	4802.0	22.0
60°-70°	5118.2	23.5
70°-80°	3150.8	14.5
80°-90°	276.1	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°	21804.0	100.0
0°-180°	21804.0	100.0



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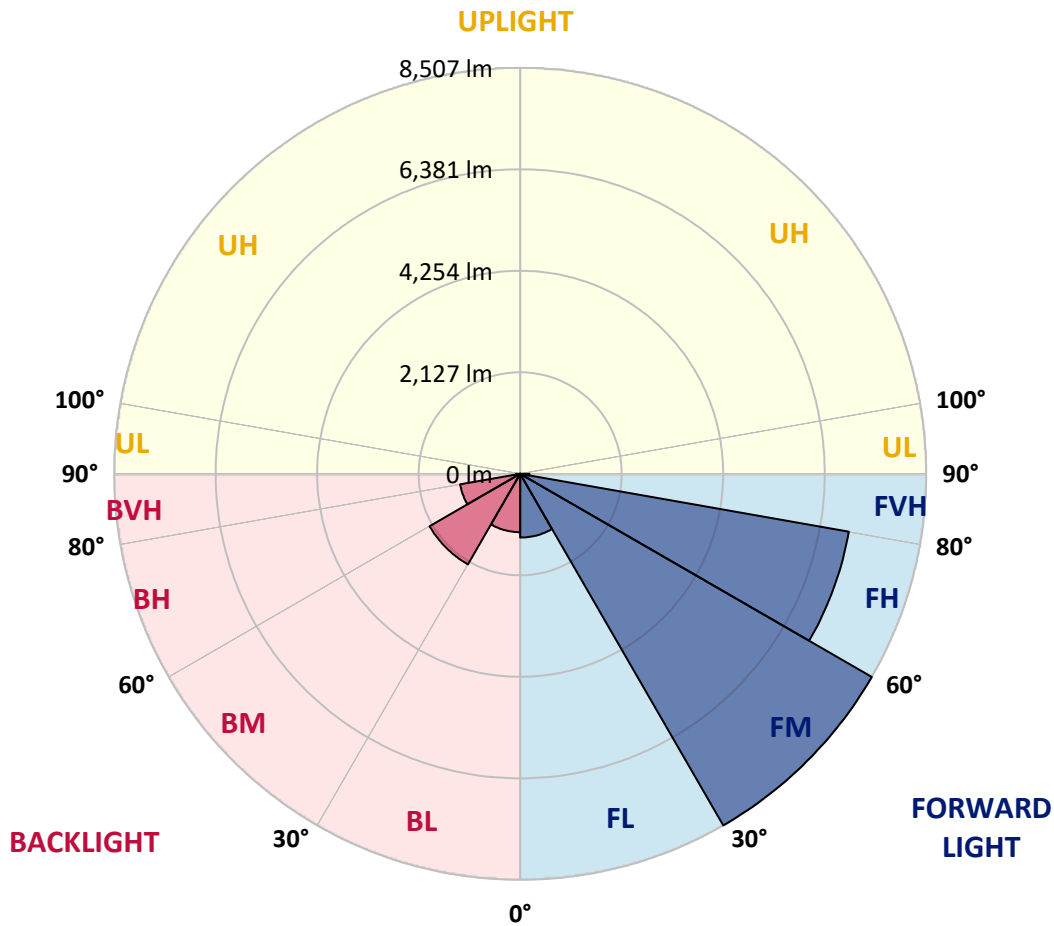
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.8	6.1			
FM (30°-60°)	8507.5	39.0			
FH (60°-80°)	6992.9	32.1			G3/7500
FVH (80°-90°)	193.1	0.9			G2/225
BL (0°-30°)	1223.4	5.6	B3/2500		
BM (30°-60°)	2192.2	10.1	B2/2500		
BH (60°-80°)	1276.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	83.0	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9
2.5°	2804.0	2802.9	2817.4	2821.9	2848.7	2867.7	2903.4	2941.4	2990.5	2996.1
5°	2642.1	2642.1	2658.8	2676.7	2711.3	2749.3	2804.0	2869.9	2954.8	2968.2
7.5°	2504.7	2513.7	2528.2	2562.8	2603.0	2657.7	2741.5	2835.3	2946.9	2968.2
10°	2394.2	2404.2	2422.1	2450.0	2510.3	2586.2	2695.7	2816.3	2965.9	2999.4
12.5°	2359.6	2369.6	2379.7	2400.9	2456.7	2546.0	2676.7	2825.2	3011.7	3045.2
15°	2440.0	2452.2	2444.4	2438.8	2467.9	2549.4	2685.6	2857.6	3068.7	3116.7
17.5°	2625.3	2629.8	2611.9	2559.4	2555.0	2598.5	2728.1	2902.3	3140.1	3192.6
20°	2924.6	2916.8	2879.9	2776.1	2716.9	2708.0	2800.7	2969.3	3213.8	3269.7
22.5°	3331.1	3322.1	3248.4	3084.3	2952.5	2865.4	2905.6	3056.4	3296.5	3359.0
25°	3838.1	3825.8	3717.5	3494.1	3289.8	3074.2	3048.6	3171.4	3398.1	3456.1
27.5°	4429.9	4419.8	4302.6	4007.8	3713.0	3360.1	3226.1	3306.5	3504.2	3570.1
30°	5066.4	5095.4	4887.7	4570.6	4197.6	3733.1	3465.1	3472.9	3641.5	3700.7
32.5°	5814.6	5864.8	5614.7	5212.7	4703.5	4138.4	3766.6	3705.2	3841.4	3890.5
35°	6556.1	6613.0	6405.3	5960.9	5374.6	4616.4	4081.5	3972.1	4107.2	4160.8
37.5°	7197.1	7273.0	7165.8	6779.4	6092.6	5192.6	4492.4	4285.8	4434.4	4501.4
40°	7702.9	7819.0	7811.2	7570.0	6939.1	5891.6	5013.9	4673.3	4840.8	4913.4
42.5°	8113.9	8214.4	8301.5	8289.2	7822.4	6685.6	5627.0	5177.0	5304.3	5388.0
45°	8397.5	8504.7	8692.3	8894.4	8672.2	7535.4	6329.4	5774.4	5890.5	6016.7
47.5°	8651.0	8772.7	9016.1	9336.6	9393.6	8388.6	7098.8	6470.1	6576.2	6706.8
50°	8673.3	8778.3	9155.7	9610.2	9906.1	9208.2	7925.1	7250.7	7350.0	7489.6
52.5°	8134.0	8299.2	8958.1	9602.4	10141.8	9893.9	8745.9	8062.5	8174.2	8341.7
55°	6313.8	6556.1	8378.5	9303.1	10058.0	10337.2	9526.5	8925.7	9068.6	9243.9
57.5°	5438.3	5544.4	6651.0	8758.2	9676.1	10452.2	10185.3	9797.8	10027.9	10219.9
60°	4887.7	4976.0	5630.3	7910.6	9173.6	10270.2	10694.5	10610.8	11008.3	11237.2
62.5°	4298.1	4381.9	4977.1	6605.2	8530.4	9967.6	11016.1	11361.2	12013.3	12263.5
65°	3713.0	3784.5	4355.1	5549.9	7713.0	9664.9	11182.5	12010.0	12943.5	13202.6
67.5°	3060.8	3120.0	3659.4	4682.3	6719.1	9250.6	11265.1	12520.3	13753.1	13975.3
70°	2208.8	2254.6	2811.8	3702.9	5471.8	8538.2	11231.6	12882.1	14173.0	14350.6
72.5°	1044.1	1085.4	1739.8	2404.2	3864.9	7151.3	10553.8	12595.1	13746.4	13658.2
75°	557.2	593.0	999.4	1318.8	2041.3	4902.3	8636.5	10849.7	11543.2	11114.4
77.5°	377.4	405.4	618.6	791.7	932.4	2327.2	5551.1	7512.0	7227.2	6519.2
80°	299.3	328.3	507.0	536.0	451.1	840.9	2293.7	3477.4	2498.0	1997.8
82.5°	230.0	262.4	426.6	388.6	245.7	345.1	667.8	1099.9	639.9	486.9
85°	140.7	175.3	335.0	247.9	138.5	157.5	226.7	306.0	195.4	163.0
87.5°	71.5	100.5	169.7	90.5	62.5	36.9	60.3	60.3	51.4	44.7
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°
3041.9	0°	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9
3026.2	2.5°	3053.0	3075.4	3113.3	3149.1	3177.0	3203.8	3230.6	3245.1	3249.6	3267.4
3043.0	5°	3088.8	3130.1	3203.8	3273.0	3316.6	3343.4	3362.3	3373.5	3375.7	3381.3
3088.8	7.5°	3154.6	3220.5	3323.3	3392.5	3424.9	3422.6	3414.8	3386.9	3375.7	3365.7
3155.8	10°	3247.3	3334.4	3460.6	3508.6	3488.5	3434.9	3365.7	3284.2	3246.2	3209.4
3247.3	12.5°	3362.3	3472.9	3596.9	3594.6	3495.2	3357.9	3197.1	3072.0	2992.7	2935.8
3360.1	15°	3501.9	3629.2	3724.2	3648.2	3430.5	3183.7	2948.1	2785.0	2713.6	2651.0
3474.0	17.5°	3646.0	3782.2	3825.8	3631.5	3267.4	2925.7	2658.8	2530.4	2460.1	2426.6
3596.9	20°	3786.7	3921.8	3886.1	3535.4	3019.5	2633.1	2395.3	2324.9	2310.4	2318.2
3716.3	22.5°	3935.2	4055.8	3898.4	3350.1	2703.5	2333.9	2203.2	2205.5	2237.8	2261.3
3841.4	25°	4087.1	4168.6	3866.0	3082.1	2364.0	2113.9	2081.5	2117.2	2180.9	2226.7
3982.1	27.5°	4233.4	4269.1	3795.6	2750.4	2072.6	1956.4	1962.0	2035.7	2131.8	2195.4
4153.0	30°	4398.6	4358.4	3660.5	2377.4	1870.5	1821.3	1868.2	1954.2	2050.2	2107.2
4368.5	32.5°	4585.1	4435.5	3446.1	2032.4	1727.5	1713.0	1790.1	1845.9	1888.3	1905.1
4654.4	35°	4817.4	4543.8	3171.4	1790.1	1599.1	1633.7	1707.4	1679.5	1662.7	1653.8
5038.5	37.5°	5118.9	4690.1	2849.8	1632.6	1495.2	1576.8	1606.9	1519.8	1453.9	1421.5
5504.2	40°	5481.8	4904.5	2540.5	1510.9	1429.4	1527.6	1475.1	1370.2	1286.4	1240.6
6027.9	42.5°	5884.9	5128.9	2280.3	1419.3	1392.5	1487.4	1378.0	1252.9	1117.8	1103.3
6652.1	45°	6308.2	5360.1	2102.7	1349.0	1374.6	1452.8	1322.2	1120.0	1024.0	1083.2
7278.6	47.5°	6731.4	5572.3	1995.5	1296.5	1365.7	1413.7	1273.0	1046.3	978.2	1064.2
7949.7	50°	7202.6	5762.1	1947.5	1258.5	1355.7	1398.1	1199.3	1027.4	930.2	987.2
8644.3	52.5°	7670.5	5909.5	1911.8	1220.5	1341.1	1385.8	1163.6	1005.0	872.1	875.5
9343.3	55°	8137.3	6005.5	1872.7	1170.3	1308.8	1359.0	1160.2	980.5	828.6	812.9
10082.6	57.5°	8635.3	6060.3	1824.7	1114.5	1252.9	1290.9	1156.9	961.5	815.2	789.5
10838.6	60°	9142.3	6140.7	1762.1	1046.3	1178.1	1209.4	1149.1	954.8	807.4	763.8
11551.0	62.5°	9596.8	6168.6	1687.3	981.6	1082.1	1129.0	1132.3	949.2	786.1	711.3
12142.9	65°	9895.0	6048.0	1556.7	907.9	978.2	1046.3	1099.9	930.2	748.2	673.4
12435.4	67.5°	9882.7	5704.0	1352.3	812.9	877.7	954.8	1053.0	897.8	702.4	626.5
12214.3	70°	9422.6	5025.1	1093.2	702.4	767.2	856.5	992.7	849.8	647.7	575.1
10860.9	72.5°	8081.5	3933.0	794.0	572.9	638.7	754.9	914.6	791.7	591.8	529.3
8026.8	75°	5773.3	2489.1	538.2	440.0	496.9	639.9	817.4	723.6	540.5	531.5
4020.1	77.5°	2949.2	1189.3	356.2	321.6	346.2	504.7	686.8	646.6	548.3	438.9
1143.5	80°	959.2	438.9	224.5	218.9	230.0	336.1	531.5	530.4	415.4	298.2
276.9	82.5°	306.0	188.7	146.3	140.7	135.1	211.1	370.7	419.9	280.3	188.7
99.4	85°	121.7	112.8	86.0	79.3	57.0	99.4	194.3	279.2	208.8	136.2
25.7	87.5°	44.7	44.7	23.5	16.8	12.3	33.5	52.5	83.8	119.5	70.4
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>
3041.9
3277.5
3390.3
3367.9
3198.2
2922.4
2644.3
2436.6
2314.9
2266.9
2239.0
2211.0
2120.6
1914.0
1662.7
1429.4
1244.0
1117.8
1114.5
1104.4
1029.6
898.9
824.1
792.8
767.2
711.3
673.4
629.8
<i>581.8</i>
526.0
501.4
390.8
263.5
187.6
139.6
69.2
0.0

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