

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: P952849

Luminaire Tested: **GALN-SB6C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952849
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-SB6C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40541 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

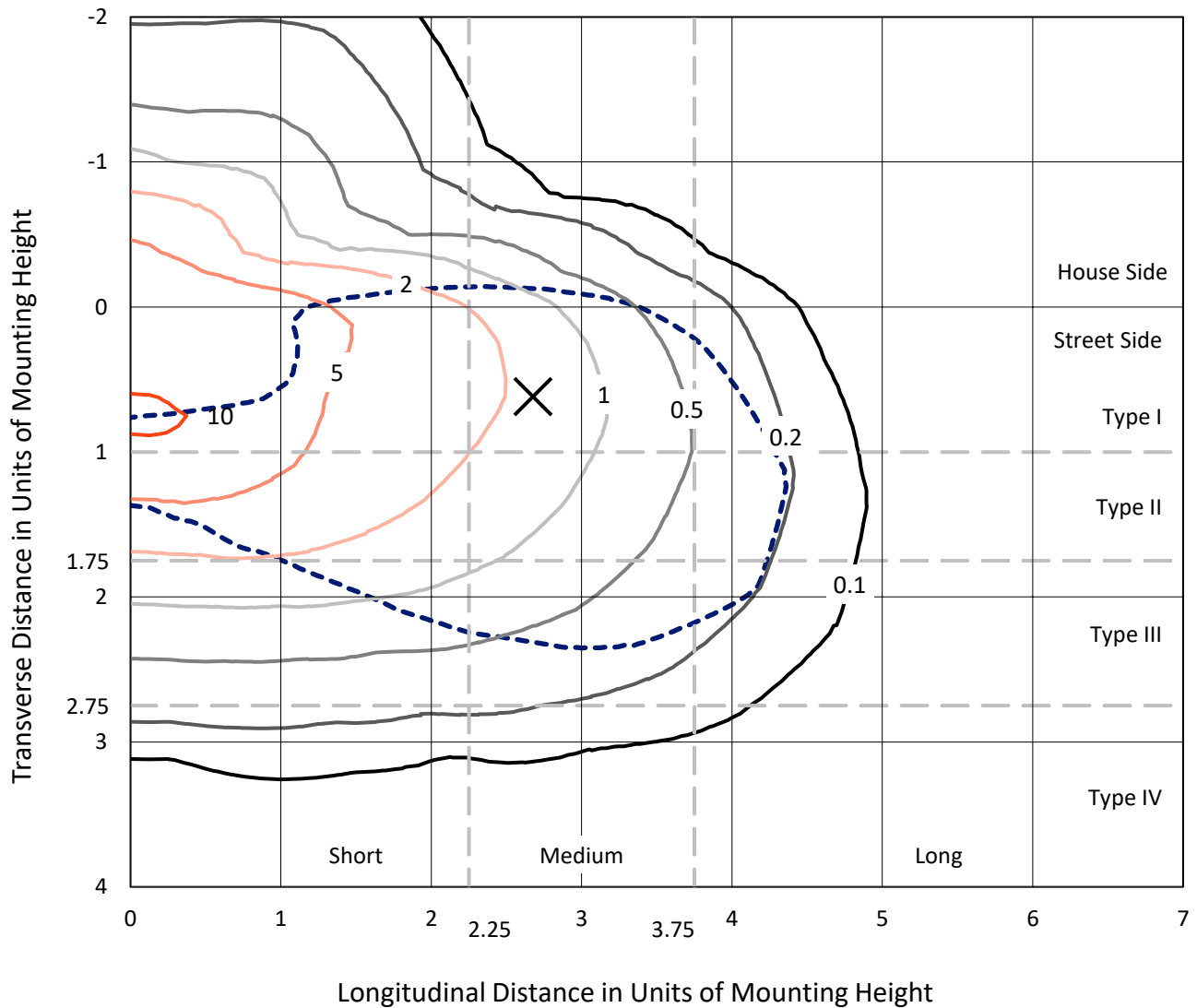
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952849
 CATALOG NUMBER: GALN-SB6C-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

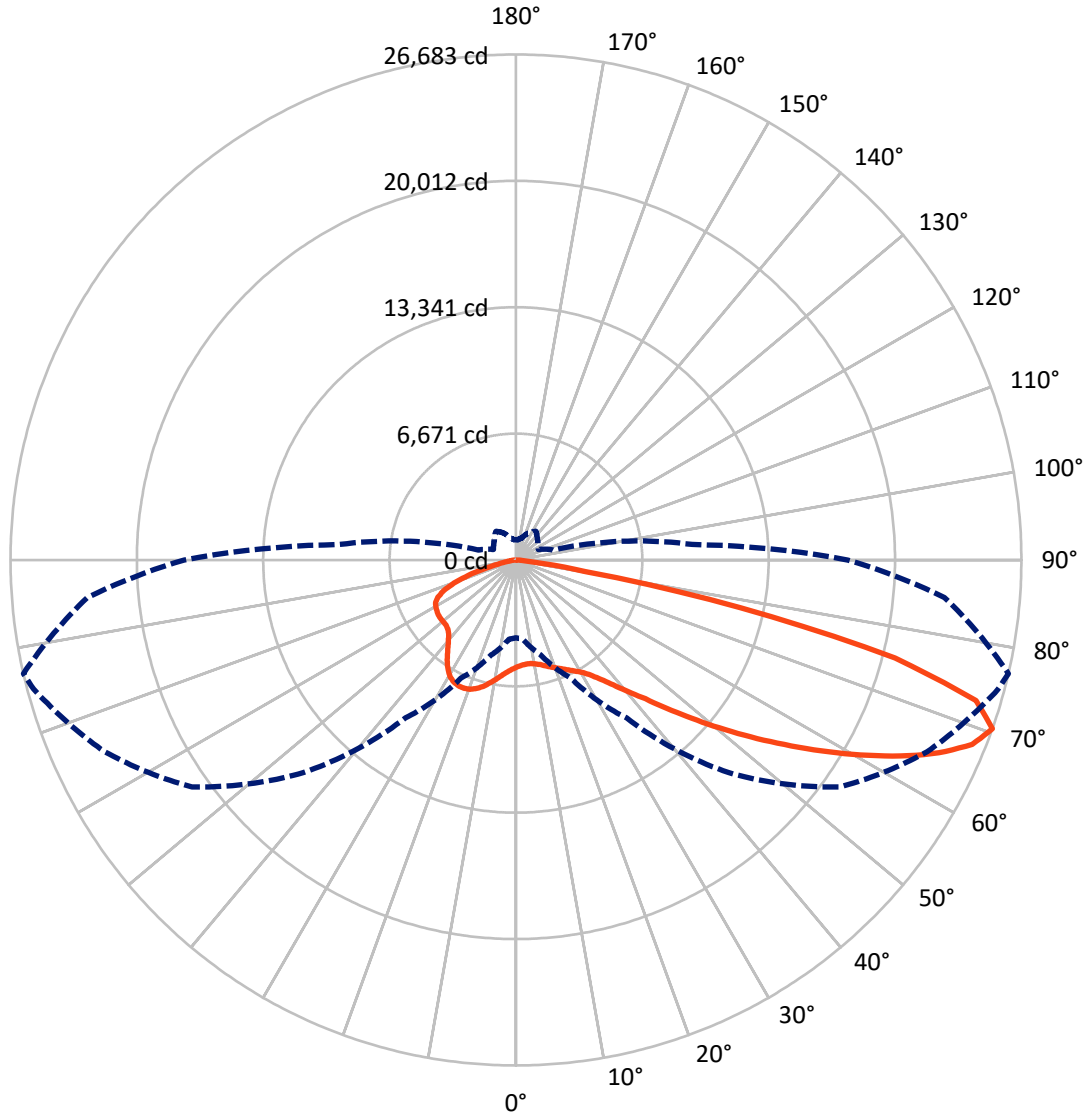
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P952849
CATALOG NUMBER: GALN-SB6C-827-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P952849

CATALOG NUMBER: GALN-SB6C-827-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8877.8	0.0	8877.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	31663.2	0.0	31663.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	40541.0	0.0	40541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.4	1.3
10°-20°	1556.8	3.8
20°-30°	2662.4	6.6
30°-40°	4281.3	10.6
40°-50°	6684.3	16.5
50°-60°	8928.6	22.0
60°-70°	9516.5	23.5
70°-80°	5858.3	14.5
80°-90°	513.4	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°	40541.0	100.0
0°-180°	40541.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952849

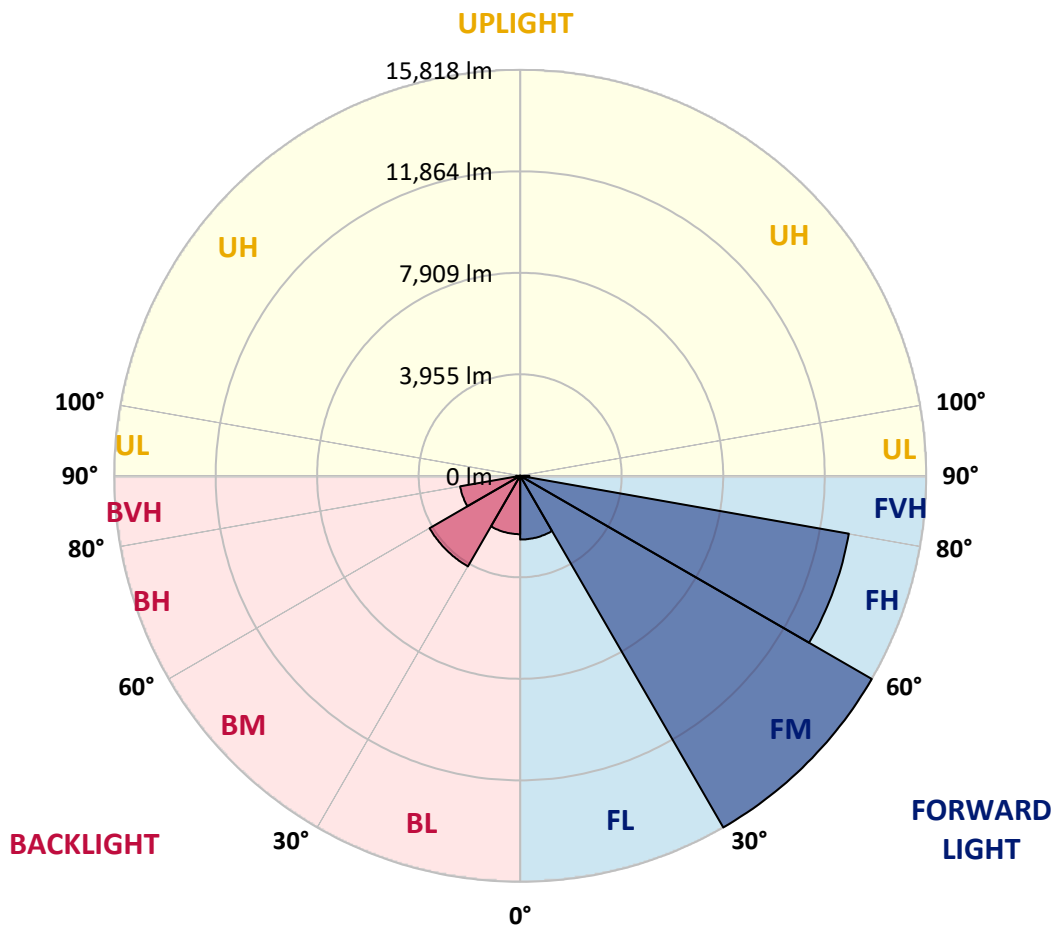
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.8	6.1			
FM (30°-60°)	15818.2	39.0			
FH (60°-80°)	13002.2	32.1			G5
FVH (80°-90°)	359.0	0.9			G3/500
BL (0°-30°)	2274.8	5.6	B3/2500		
BM (30°-60°)	4076.0	10.1	B3/5000		
BH (60°-80°)	2372.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	154.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P952849
 CATALOG NUMBER: GALN-SB6C-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8
2.5°	5213.6	5211.5	5238.5	5246.8	5296.6	5331.9	5398.4	5469.0	5560.3	5570.7
5°	4912.5	4912.5	4943.7	4976.9	5041.3	5111.8	5213.6	5336.1	5493.9	5518.8
7.5°	4657.1	4673.7	4700.7	4765.1	4839.9	4941.6	5097.3	5271.7	5479.4	5518.8
10°	4451.6	4470.3	4503.5	4555.4	4667.5	4808.7	5012.2	5236.4	5514.7	5576.9
12.5°	4387.2	4405.9	4424.6	4464.0	4567.9	4734.0	4976.9	5253.0	5599.8	5662.1
15°	4536.7	4559.6	4545.0	4534.6	4588.6	4740.2	4993.5	5313.2	5705.7	5795.0
17.5°	4881.4	4889.7	4856.5	4758.9	4750.6	4831.5	5072.4	5396.3	5838.6	5936.1
20°	5437.8	5423.3	5354.8	5161.7	5051.6	5035.0	5207.4	5520.9	5975.6	6079.4
22.5°	6193.6	6177.0	6040.0	5734.7	5489.7	5327.8	5402.5	5682.8	6129.2	6245.5
25°	7136.2	7113.4	6912.0	6496.7	6116.8	5716.1	5668.3	5896.7	6318.2	6426.1
27.5°	8236.7	8218.0	8000.0	7451.8	6903.7	6247.6	5998.4	6147.9	6515.4	6637.9
30°	9420.2	9474.2	9088.0	8498.3	7804.8	6941.1	6442.8	6457.3	6770.8	6880.9
32.5°	10811.3	10904.7	10439.6	9692.2	8745.4	7694.8	7003.4	6889.2	7142.5	7233.8
35°	12190.0	12295.8	11909.7	11083.3	9993.2	8583.4	7588.9	7385.4	7636.6	7736.3
37.5°	13381.7	13522.9	13323.6	12605.2	11328.3	9654.8	8353.0	7968.8	8245.0	8369.6
40°	14322.3	14538.2	14523.7	14075.2	12902.1	10954.6	9322.6	8689.3	9000.8	9135.7
42.5°	15086.4	15273.3	15435.2	15412.4	14544.5	12430.8	10462.5	9625.7	9862.4	10018.1
45°	15613.8	15813.1	16161.9	16537.7	16124.5	14010.9	11768.5	10736.5	10952.5	11187.1
47.5°	16085.1	16311.4	16764.0	17359.9	17465.8	15597.2	13199.0	12030.1	12227.3	12470.3
50°	16126.6	16321.8	17023.6	17868.6	18418.9	17121.2	14735.5	13481.4	13666.2	13925.7
52.5°	15123.8	15431.1	16656.1	17854.1	18857.0	18396.0	16261.6	14990.9	15198.5	15510.0
55°	11739.4	12190.0	15578.5	17297.6	18701.2	19220.3	17712.9	16595.9	16861.6	17187.6
57.5°	10111.6	10308.8	12366.4	16284.4	17991.1	19434.2	18937.9	18217.5	18645.2	19002.3
60°	9088.0	9252.0	10468.7	14708.5	17056.8	19095.7	19884.7	19729.0	20468.2	20893.8
62.5°	7991.7	8147.4	9254.1	12281.3	15860.9	18533.0	20482.7	21124.3	22336.8	22801.9
65°	6903.7	7036.6	8097.6	10319.2	14341.0	17970.4	20792.1	22330.6	24066.4	24548.1
67.5°	5691.1	5801.2	6804.0	8705.9	12493.1	17200.1	20945.7	23279.5	25571.7	25984.9
70°	4106.9	4192.0	5228.1	6885.0	10173.9	15875.4	20883.4	23952.2	26352.4	26682.5
72.5°	1941.3	2018.2	3234.9	4470.3	7186.1	13296.6	19623.1	23418.6	25559.2	25395.2
75°	1036.1	1102.5	1858.3	2452.1	3795.5	9115.0	16058.1	20173.3	21462.7	20665.4
77.5°	701.8	753.7	1150.3	1472.1	1733.7	4327.0	10321.3	13967.3	13437.8	12121.4
80°	556.4	610.4	942.6	996.6	838.8	1563.5	4264.7	6465.6	4644.7	3714.5
82.5°	427.7	487.9	793.1	722.6	456.8	641.6	1241.6	2045.2	1189.7	905.3
85°	261.6	326.0	622.9	460.9	257.5	292.8	421.5	568.9	363.4	303.1
87.5°	132.9	186.9	315.6	168.2	116.3	68.5	112.1	112.1	95.5	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952849
 CATALOG NUMBER: GALN-SB6C-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5655.8	0°	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8	5655.8
5626.8	2.5°	5676.6	5718.1	5788.7	5855.2	5907.1	5956.9	6006.7	6033.7	6042.0	6075.3
5657.9	5°	5743.0	5819.9	5956.9	6085.6	6166.6	6216.4	6251.7	6272.5	6276.7	6287.0
5743.0	7.5°	5865.5	5988.0	6179.1	6307.8	6368.0	6363.9	6349.3	6297.4	6276.7	6258.0
5867.6	10°	6037.9	6199.8	6434.5	6523.7	6486.4	6386.7	6258.0	6106.4	6035.8	5967.3
6037.9	12.5°	6251.7	6457.3	6687.8	6683.6	6498.8	6243.4	5944.4	5711.9	5564.5	5458.6
6247.6	15°	6511.3	6748.0	6924.5	6783.3	6378.4	5919.5	5481.4	5178.3	5045.4	4929.1
6459.4	17.5°	6779.1	7032.4	7113.4	6752.1	6075.3	5439.9	4943.7	4704.9	4574.1	4511.8
6687.8	20°	7040.7	7292.0	7225.5	6573.6	5614.3	4895.9	4453.7	4322.9	4295.9	4310.4
6909.9	22.5°	7316.9	7541.1	7248.4	6228.9	5026.7	4339.5	4096.5	4100.7	4160.9	4204.5
7142.5	25°	7599.3	7750.8	7188.1	5730.6	4395.5	3930.4	3870.2	3936.7	4055.0	4140.1
7404.1	27.5°	7871.3	7937.7	7057.3	5113.9	3853.6	3637.7	3648.1	3785.1	3963.7	4082.0
7721.8	30°	8178.5	8103.8	6806.1	4420.4	3477.8	3386.4	3473.6	3633.5	3812.1	3918.0
8122.5	32.5°	8525.3	8247.1	6407.5	3778.9	3212.0	3185.0	3328.3	3432.1	3511.0	3542.2
8654.0	35°	8957.2	8448.5	5896.7	3328.3	2973.3	3037.6	3174.7	3122.8	3091.6	3075.0
9368.3	37.5°	9517.8	8720.5	5298.7	3035.5	2780.2	2931.7	2987.8	2825.8	2703.3	2643.1
10234.1	40°	10192.6	9119.1	4723.6	2809.2	2657.7	2840.4	2742.8	2547.6	2391.9	2306.8
11207.9	42.5°	10942.1	9536.4	4239.8	2639.0	2589.1	2765.6	2562.2	2329.6	2078.4	2051.4
12368.5	45°	11729.0	9966.2	3909.7	2508.2	2555.9	2701.3	2458.3	2082.5	1904.0	2014.0
13533.3	47.5°	12515.9	10360.7	3710.3	2410.6	2539.3	2628.6	2367.0	1945.5	1818.8	1978.7
14781.2	50°	13392.1	10713.7	3621.1	2340.0	2520.6	2599.5	2229.9	1910.2	1729.6	1835.4
16072.6	52.5°	14262.1	10987.8	3554.6	2269.4	2493.6	2576.7	2163.5	1868.7	1621.6	1627.8
17372.4	55°	15130.0	11166.3	3482.0	2176.0	2433.4	2526.9	2157.3	1823.0	1540.6	1511.5
18746.9	57.5°	16056.0	11268.1	3392.7	2072.1	2329.6	2400.2	2151.0	1787.7	1515.7	1467.9
20152.6	60°	16998.7	11417.6	3276.4	1945.5	2190.5	2248.6	2136.5	1775.2	1501.2	1420.2
21477.2	62.5°	17843.7	11469.5	3137.3	1825.1	2011.9	2099.1	2105.4	1764.9	1461.7	1322.6
22577.7	65°	18398.1	11245.2	2894.4	1688.0	1818.8	1945.5	2045.2	1729.6	1391.1	1252.0
23121.7	67.5°	18375.2	10605.7	2514.4	1511.5	1632.0	1775.2	1958.0	1669.3	1306.0	1164.8
22710.6	70°	17519.8	9343.3	2032.7	1306.0	1426.4	1592.5	1845.8	1580.1	1204.3	1069.3
20194.1	72.5°	15026.2	7312.7	1476.2	1065.1	1187.6	1403.6	1700.5	1472.1	1100.4	984.2
14924.4	75°	10734.5	4628.1	1000.8	818.1	924.0	1189.7	1519.9	1345.4	1004.9	988.3
7474.7	77.5°	5483.5	2211.3	662.3	598.0	643.7	938.5	1276.9	1202.2	1019.5	816.0
2126.1	80°	1783.5	816.0	417.3	407.0	427.7	625.0	988.3	986.2	772.4	554.4
514.9	82.5°	568.9	350.9	272.0	261.6	251.2	392.4	689.3	780.7	521.2	350.9
184.8	85°	226.3	209.7	159.9	147.4	105.9	184.8	361.3	519.1	388.3	253.3
47.8	87.5°	83.1	83.1	43.6	31.1	22.8	62.3	97.6	155.7	222.2	130.8
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>
5655.8
6093.9
6303.6
6262.1
5946.5
5433.7
4916.7
4530.5
4304.2
4214.9
4163.0
4111.1
3942.9
3558.8
3091.6
2657.7
2313.0
2078.4
2072.1
2053.5
1914.3
1671.4
1532.3
1474.2
1426.4
1322.6
1252.0
1171.0
<i>1081.8</i>
977.9
932.3
726.7
490.0
348.8
259.5
128.7
0.0

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