

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: P955338

Luminaire Tested: **GALN-SB8B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38697 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

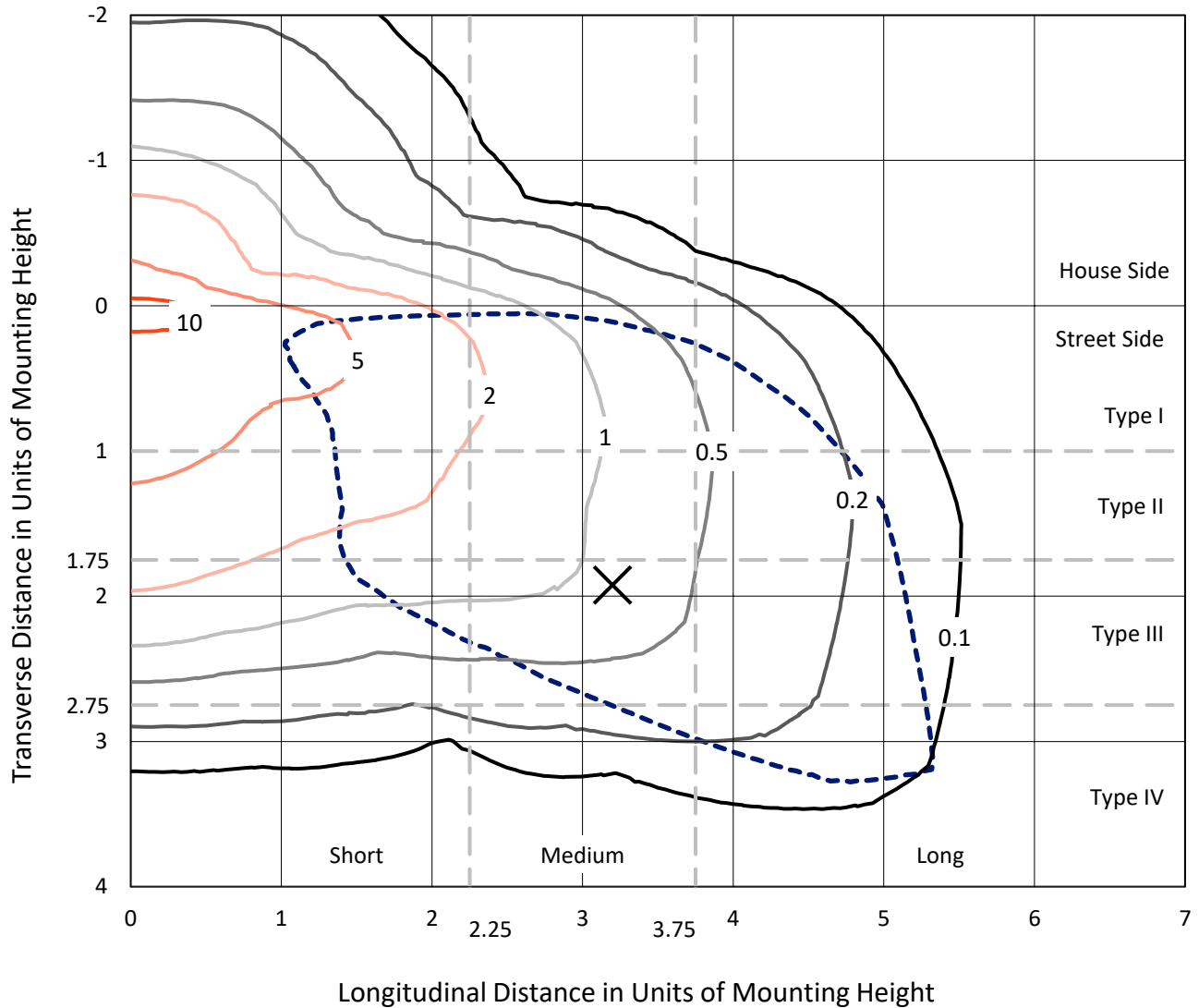
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

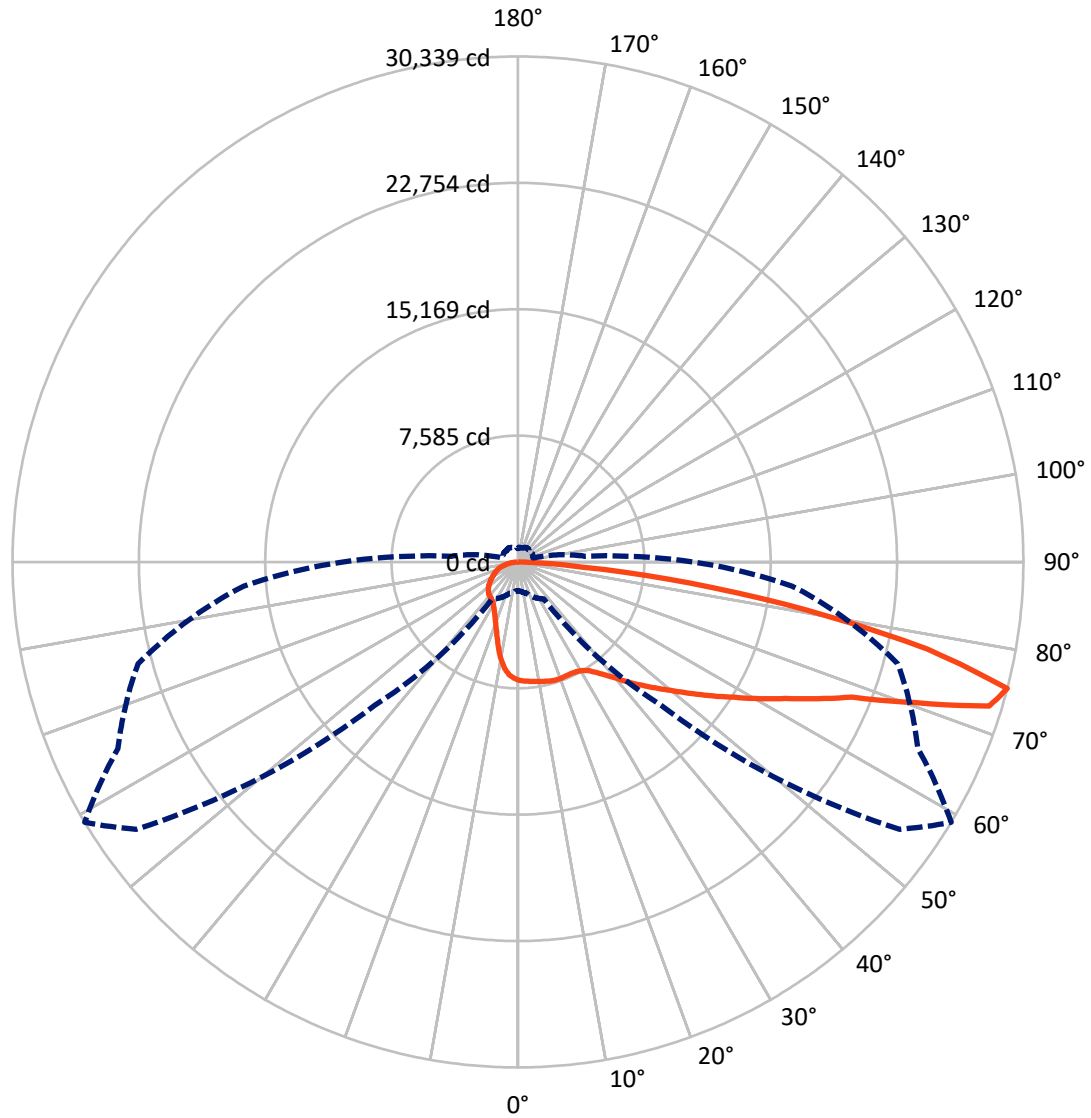
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7257.9	0.0	7257.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31439.1	0.0	31439.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	38697.0	0.0	38697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.9	1.6
10°-20°	1627.9	4.2
20°-30°	2472.7	6.4
30°-40°	3675.5	9.5
40°-50°	5466.1	14.1
50°-60°	7419.6	19.2
60°-70°	9058.2	23.4
70°-80°	7108.7	18.4
80°-90°	1231.4	3.2
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°	38697.0	100.0
0°-180°	38697.0	100.0

Coefficient of Utilization



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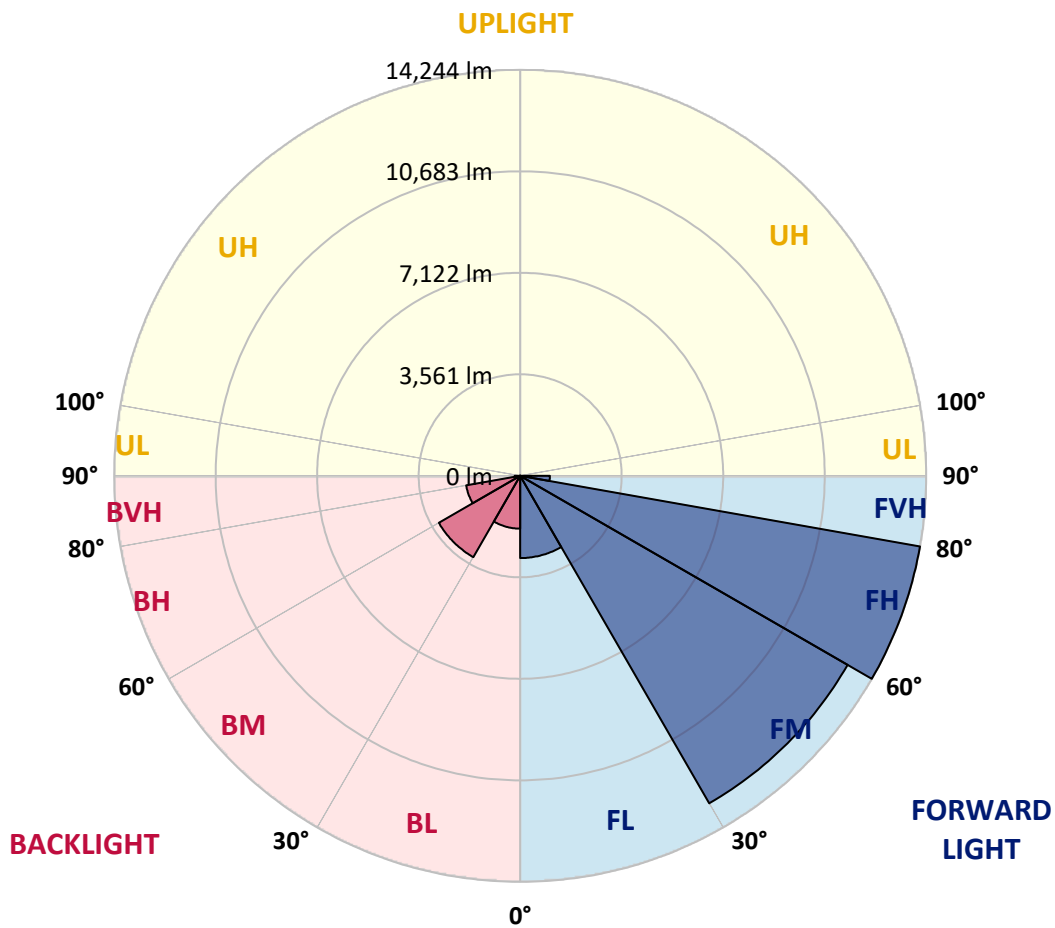
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2885.3	7.5			
FM (30°-60°)	13266.9	34.3			
FH (60°-80°)	14244.0	36.8			G5
FVH (80°-90°)	1042.9	2.7			G5
BL (0°-30°)	1852.1	4.8	B3/2500		
BM (30°-60°)	3294.4	8.5	B3/5000		
BH (60°-80°)	1922.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	188.5	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7
2.5°	7163.1	7138.1	7163.1	7152.7	7148.5	7140.2	7142.3	7156.9	7148.5	7159.0
5°	7115.2	7100.7	7125.6	7119.4	7146.5	7150.6	7177.7	7194.3	7204.8	7206.8
7.5°	7036.1	7021.6	7057.0	7086.1	7144.4	7161.0	7217.2	7244.3	7258.9	7283.9
10°	6746.8	6740.5	6828.0	6938.3	7075.7	7161.0	7246.4	7292.2	7315.1	7381.7
12.5°	6234.7	6243.0	6357.5	6569.8	6844.6	7119.4	7279.7	7346.3	7381.7	7465.0
15°	5745.5	5743.4	5868.3	6095.2	6480.3	6936.2	7296.3	7410.8	7471.2	7594.0
17.5°	5462.4	5454.0	5541.5	5714.3	6072.3	6655.2	7254.7	7446.2	7575.3	7729.3
20°	5410.3	5393.7	5439.5	5524.8	5778.8	6347.1	7146.5	7446.2	7658.6	7858.4
22.5°	5599.8	5572.7	5554.0	5543.6	5656.0	6093.1	7023.6	7421.2	7781.4	8043.7
25°	5980.7	5939.1	5843.3	5749.6	5716.3	5978.6	6915.4	7415.0	7964.6	8293.5
27.5°	6596.9	6544.9	6351.3	6126.4	5924.5	6036.9	6867.5	7452.5	8166.5	8557.9
30°	7360.9	7304.7	7061.1	6715.6	6353.3	6253.4	6927.9	7562.8	8424.6	8909.7
32.5°	8045.8	7983.3	7775.1	7423.3	6934.1	6628.1	7119.4	7773.1	8830.6	9398.9
35°	8653.6	8580.8	8393.4	8068.7	7646.1	7154.8	7465.0	8145.7	9407.2	10194.1
37.5°	9249.0	9163.6	8959.6	8616.1	8320.5	7856.3	7941.7	8624.5	10173.3	11160.0
40°	9915.1	9792.3	9544.6	9205.3	8918.0	8678.6	8568.3	9211.5	10951.8	12238.3
42.5°	10560.4	10443.9	10148.3	9858.9	9498.8	9430.1	9294.8	9898.5	11803.2	13422.8
45°	11255.7	11116.3	10758.2	10391.8	10164.9	9929.7	9998.4	10585.4	12638.0	14630.2
47.5°	11907.3	11751.2	11328.6	10920.6	10795.7	10350.2	10643.7	11341.1	13506.0	15854.2
50°	12259.1	12105.1	11753.3	11384.8	11287.0	10868.5	11343.2	12171.7	14415.7	17074.1
52.5°	12552.6	12386.1	11926.0	11722.0	11692.9	11432.7	12205.0	13120.9	15325.4	18152.4
55°	12864.9	12679.6	12092.6	11909.4	12042.6	12065.5	13227.1	14197.2	16287.2	19203.6
57.5°	13225.0	12989.8	12252.9	12067.6	12384.0	12806.6	14401.2	15313.0	17232.3	20177.9
60°	13564.3	13327.0	12561.0	12319.5	12752.5	13666.3	15748.0	16664.0	18302.3	21046.0
62.5°	13630.9	13435.3	12806.6	12804.5	13252.1	14669.7	17342.6	18027.5	19237.0	21903.6
65°	12477.7	12354.9	11982.2	12785.8	13968.2	16114.4	19118.3	19772.0	20425.6	22653.0
67.5°	9496.7	9513.4	9486.3	11037.2	13389.5	18189.9	21689.2	21639.2	21893.2	23494.0
70°	4342.4	4440.3	5077.3	7619.0	10727.0	18429.3	25940.0	25292.6	23735.5	24582.8
72.5°	2346.1	2421.0	2681.2	3690.8	6449.1	16385.0	29116.7	29576.7	26185.7	25315.5
75°	1721.6	1763.2	1944.3	2346.1	2708.3	12177.9	27978.0	30338.6	26491.7	23606.4
77.5°	1288.6	1307.3	1455.1	1859.0	1386.4	6420.0	22355.3	25126.1	22678.0	19395.2
80°	934.7	955.5	1065.8	1394.7	972.2	2348.2	15350.4	17636.1	15531.5	12363.2
82.5°	645.3	653.7	701.5	949.3	678.6	911.8	8709.8	10341.9	8670.3	4338.3
85°	389.3	399.7	420.5	553.7	385.1	433.0	3759.5	3888.6	2591.7	1036.7
87.5°	160.3	170.7	187.4	233.1	152.0	120.7	620.3	778.6	485.0	303.9
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°
7102.7	0°	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7
7123.6	2.5°	7113.2	7098.6	7059.0	7004.9	6954.9	6892.5	6865.4	6842.5	6821.7	6782.2
7179.8	5°	7156.9	7117.3	7011.2	6873.8	6717.6	6546.9	6380.4	6265.9	6168.1	6095.2
7244.3	7.5°	7223.5	7148.5	6954.9	6673.9	6315.9	5949.5	5618.5	5383.3	5206.3	5141.8
7335.9	10°	7292.2	7202.7	6865.4	6370.0	5751.7	5187.6	4748.3	4506.9	4365.3	4319.5
7444.1	12.5°	7373.4	7242.2	6726.0	5947.4	5121.0	4502.7	4119.7	3978.1	3905.3	3880.3
7577.4	15°	7492.0	7275.5	6515.7	5418.7	4519.4	4003.1	3755.4	3657.5	3620.1	3618.0
7714.8	17.5°	7581.5	7281.8	6188.9	4852.4	4057.2	3701.3	3497.2	3459.8	3484.8	3522.2
7850.1	20°	7681.5	7225.6	5760.1	4336.2	3732.5	3436.9	3351.5	3376.5	3436.9	3491.0
8029.1	22.5°	7752.2	7123.6	5241.7	3934.4	3451.5	3284.9	3280.8	3332.8	3366.1	3393.2
8239.4	25°	7814.7	6950.8	4692.1	3597.2	3220.4	3193.3	3239.1	3222.5	3199.6	3222.5
8449.6	27.5°	7860.5	6678.1	4200.9	3301.6	3058.0	3130.9	3103.8	3066.3	3064.3	3076.7
8697.3	30°	7845.9	6313.8	3797.0	3020.5	2943.5	3014.3	2949.8	2943.5	2937.3	2943.5
9070.0	32.5°	7845.9	5899.5	3486.8	2826.9	2870.7	2843.6	2837.4	2822.8	2797.8	2795.7
9575.8	35°	7889.6	5485.3	3220.4	2722.9	2810.3	2745.8	2749.9	2714.5	2662.5	2637.5
10246.1	37.5°	7979.1	5152.2	2956.0	2672.9	2704.1	2702.0	2685.4	2625.0	2533.4	2454.3
11083.0	40°	8195.6	5054.4	2774.9	2650.0	2654.2	2679.1	2635.4	2518.9	2310.7	2181.6
11932.3	42.5°	8535.0	5218.8	2735.3	2593.8	2620.9	2645.8	2560.5	2289.9	2142.1	2065.0
12823.2	45°	8965.9	5506.1	2820.7	2512.6	2541.8	2585.5	2331.5	2202.4	2135.8	2137.9
13705.9	47.5°	9511.3	5807.9	2978.9	2441.8	2427.3	2452.2	2179.5	2100.4	2008.8	2031.7
14553.1	50°	10142.0	6113.9	3128.8	2346.1	2300.3	2219.1	2081.7	2006.8	1890.2	1836.1
15371.2	52.5°	10824.8	6409.5	3189.2	2229.5	2162.9	2069.2	2015.1	1923.5	1781.9	1692.4
16143.6	55°	11472.2	6678.1	3122.5	2090.0	2025.5	1952.6	1944.3	1888.1	1736.1	1611.2
16830.5	57.5°	12084.2	6902.9	2956.0	1948.5	1886.0	1842.3	1898.5	1871.4	1679.9	1519.6
17480.0	60°	12602.6	7057.0	2714.5	1804.8	1761.1	1738.2	1823.6	1815.2	1600.8	1421.8
18062.9	62.5°	13014.8	7117.3	2448.1	1667.4	1657.0	1615.4	1719.5	1719.5	1500.9	1326.0
18575.0	65°	13337.4	7059.0	2177.5	1532.1	1552.9	1490.5	1592.5	1580.0	1394.7	1240.7
19164.1	67.5°	13622.6	6867.5	1877.7	1398.9	1446.8	1367.7	1459.3	1430.1	1278.2	1155.3
19674.1	70°	13749.6	6422.0	1536.3	1265.7	1324.0	1246.9	1326.0	1271.9	1147.0	1063.7
19114.1	72.5°	12729.6	5337.5	1209.5	1126.2	1176.2	1113.7	1182.4	1120.0	1005.5	968.0
16505.8	75°	10531.3	4005.2	930.5	974.2	1011.7	963.8	1009.6	963.8	859.7	886.8
12192.5	77.5°	7648.2	2704.1	711.9	813.9	830.6	805.6	845.2	793.1	699.4	693.2
6076.5	80°	3803.3	1584.2	557.9	643.2	637.0	620.3	666.1	641.2	562.1	595.4
1640.4	82.5°	1101.2	678.6	405.9	451.7	439.2	443.4	476.7	489.2	732.8	726.5
510.0	85°	345.6	266.5	243.6	251.9	239.4	245.6	281.0	557.9	516.3	301.8
158.2	87.5°	89.5	91.6	60.4	64.5	66.6	79.1	89.5	339.3	162.4	106.2
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>
7102.7
6763.4
6034.8
5029.4
4248.7
3886.5
3626.3
3536.8
3509.7
3407.7
3237.0
3097.6
2966.4
2822.8
2662.5
2481.4
2198.3
2065.0
2148.3
2090.0
1850.6
1690.3
1611.2
1511.3
1415.6
1319.8
1232.4
1147.0
1047.1
936.8
<i>809.8</i>
662.0
589.1
743.2
326.8
112.4
0.0

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