

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: P949215

Luminaire Tested: **GALN-SB4A-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

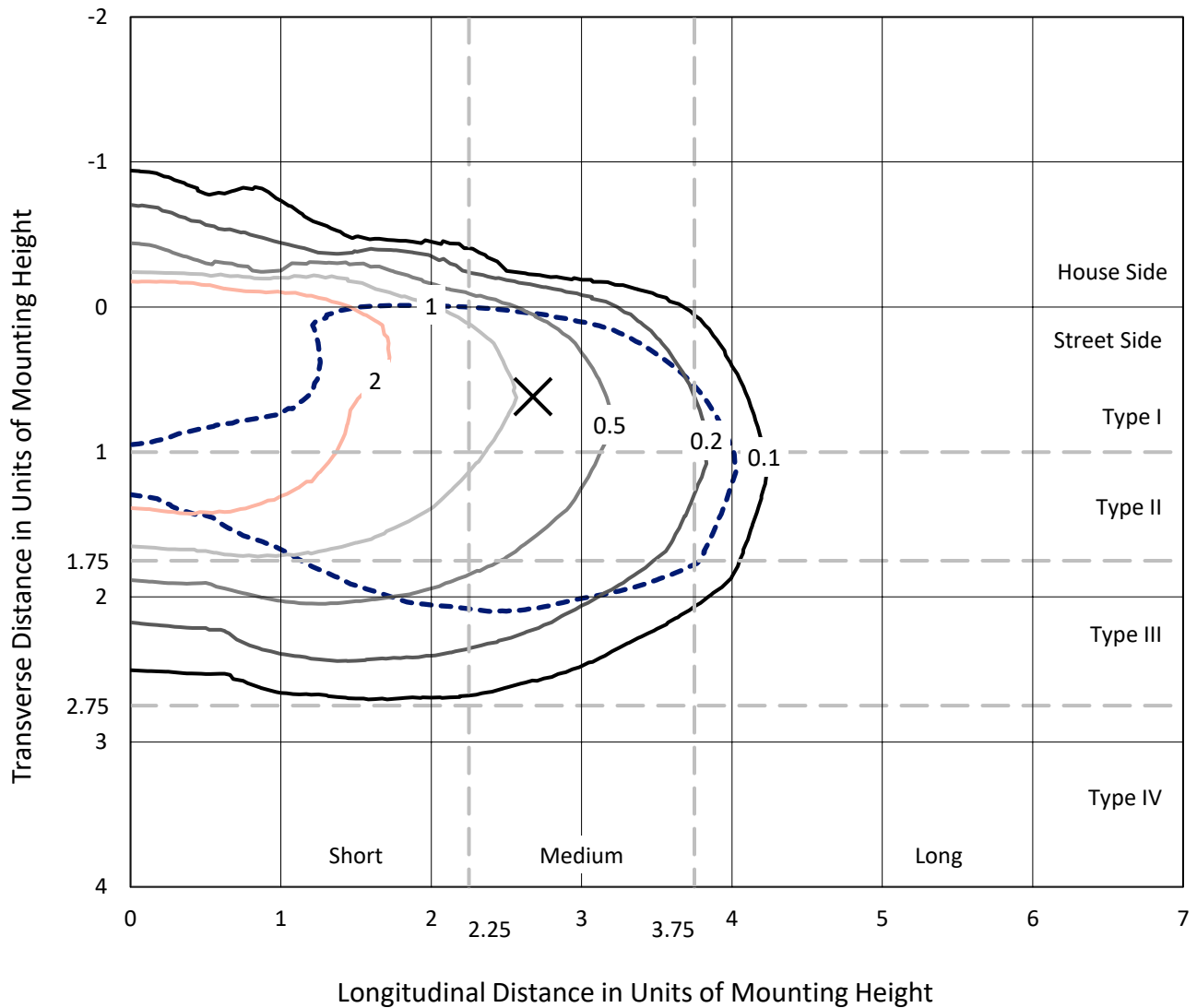
Lumens per Lamp: N/A  
Luminaire Lumens: 15835 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

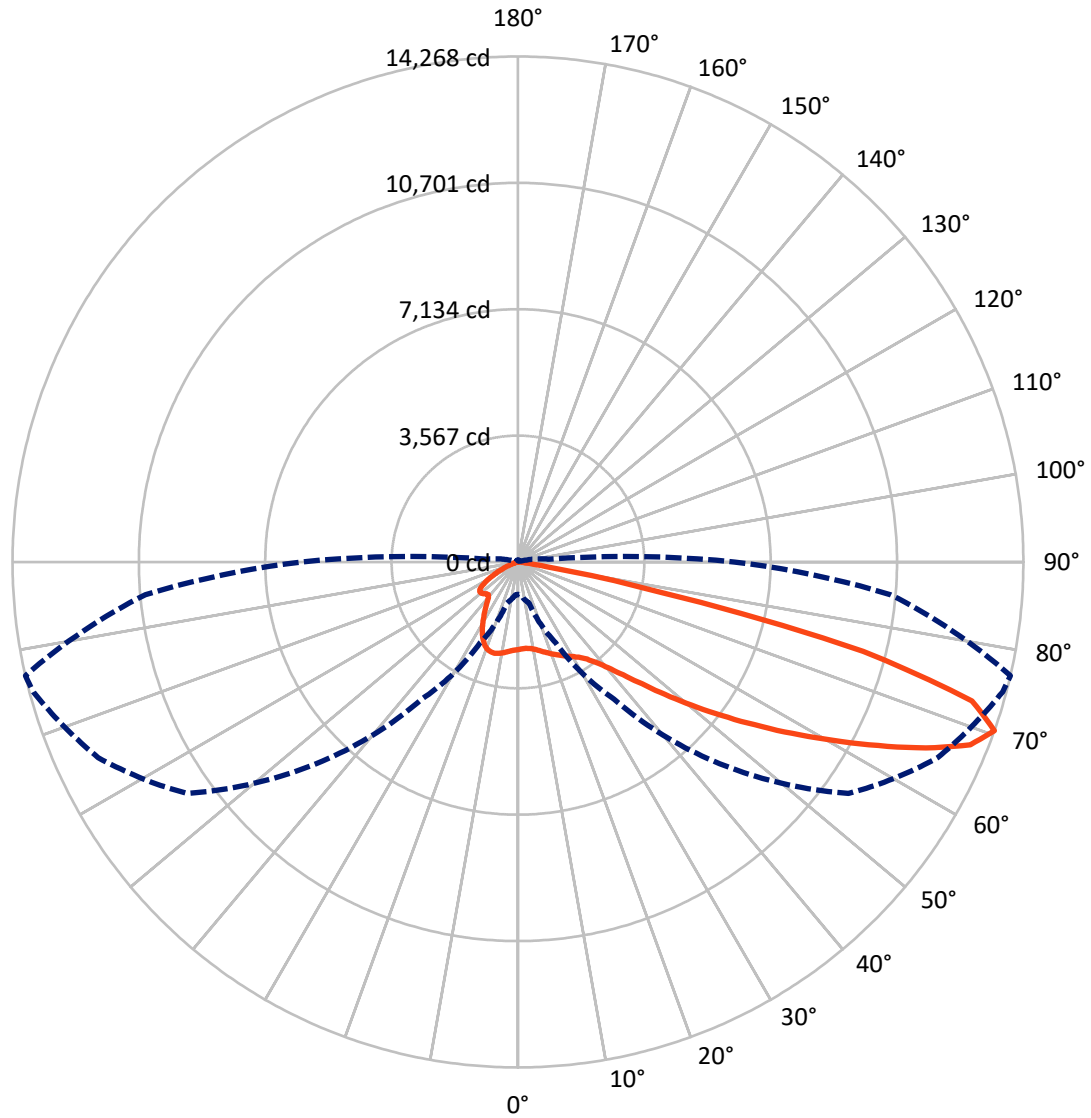
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	1669.2	0.0	1669.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14165.8	0.0	14165.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15835.0	0.0	15835.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	1.3
10°-20°	505.3	3.2
20°-30°	781.6	4.9
30°-40°	1418.3	9.0
40°-50°	2677.2	16.9
50°-60°	3868.3	24.4
60°-70°	4117.7	26.0
70°-80°	2182.1	13.8
80°-90°	71.7	0.5
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°	15835.0	100.0
0°-180°	15835.0	100.0



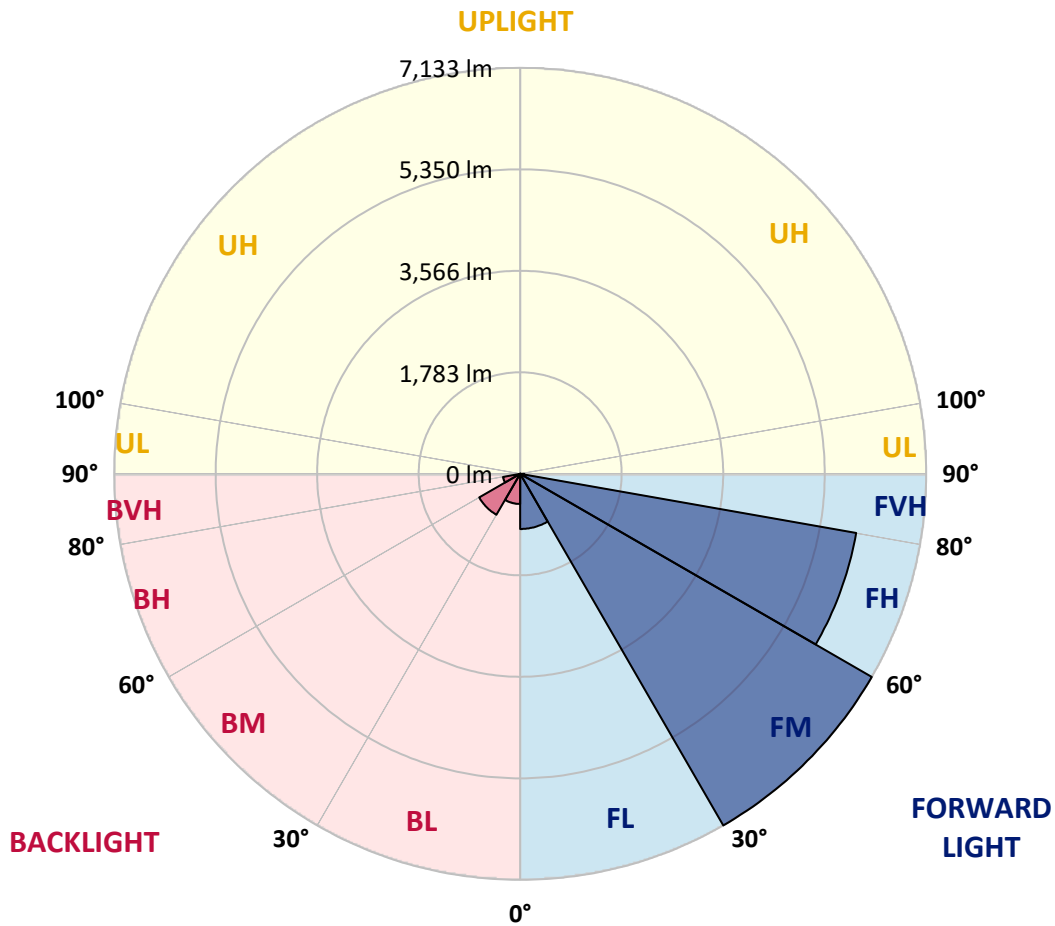
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.5	6.1			
FM (30°-60°)	7132.8	45.0			
FH (60°-80°)	5993.8	37.9			G3/7500
FVH (80°-90°)	69.7	0.4			G1/100
BL (0°-30°)	530.3	3.3	B2/1000		
BM (30°-60°)	831.0	5.2	B1/1000		
BH (60°-80°)	306.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2319.0	2340.0	2337.0	2351.0	2356.0	2376.0	2396.0	2423.0	2453.0	2452.0
5°	2188.0	2209.0	2214.0	2233.0	2257.0	2288.0	2329.0	2383.0	2439.0	2448.0
7.5°	2033.0	2055.0	2068.0	2106.0	2150.0	2214.0	2281.0	2360.0	2453.0	2466.0
10°	1878.0	1898.0	1915.0	1969.0	2039.0	2134.0	2243.0	2357.0	2482.0	2501.0
12.5°	1782.0	1801.0	1820.0	1867.0	1954.0	2070.0	2218.0	2371.0	2530.0	2557.0
15°	1748.0	1765.0	1780.0	1822.0	1903.0	2035.0	2213.0	2400.0	2591.0	2627.0
17.5°	1753.0	1762.0	1772.0	1804.0	1883.0	2019.0	2222.0	2450.0	2663.0	2695.0
20°	1782.0	1787.0	1788.0	1810.0	1880.0	2017.0	2240.0	2498.0	2731.0	2774.0
22.5°	1819.0	1821.0	1819.0	1834.0	1899.0	2032.0	2264.0	2556.0	2807.0	2847.0
25°	1992.0	1954.0	1906.0	1877.0	1931.0	2061.0	2300.0	2634.0	2890.0	2929.0
27.5°	2529.0	2420.0	2248.0	2055.0	1997.0	2103.0	2350.0	2713.0	2974.0	3009.0
30°	3401.0	3258.0	2966.0	2531.0	2209.0	2191.0	2415.0	2792.0	3063.0	3101.0
32.5°	4275.0	4240.0	3903.0	3301.0	2686.0	2387.0	2523.0	2899.0	3181.0	3211.0
35°	5158.9	5087.9	4811.9	4217.0	3421.0	2786.0	2703.0	3039.0	3336.0	3370.0
37.5°	5835.9	5792.9	5621.9	5131.9	4293.0	3402.0	3011.0	3256.0	3561.0	3599.0
40°	6433.9	6413.9	6355.9	6032.9	5267.9	4208.0	3490.0	3592.0	3873.0	3918.0
42.5°	6903.9	6950.9	6983.9	6893.9	6272.9	5127.9	4134.0	4064.0	4308.0	4354.0
45°	7384.9	7400.9	7533.9	7663.9	7270.9	6089.9	4859.9	4617.0	4848.9	4905.9
47.5°	7693.9	7757.9	7991.9	8220.9	8109.9	7043.9	5639.9	5269.9	5475.9	5582.9
50°	7716.9	7837.9	8159.9	8558.9	8720.9	7951.9	6487.9	6013.9	6232.9	6350.9
52.5°	7333.9	7521.9	8020.9	8604.9	9050.9	8720.9	7364.9	6757.9	7038.9	7192.9
55°	5622.9	5868.9	7497.9	8354.9	9063.9	9303.9	8218.9	7532.9	7936.9	8110.9
57.5°	4898.9	5022.9	5894.9	7920.9	8822.9	9538.9	8990.9	8270.9	8913.9	9129.9
60°	4076.0	4239.0	4943.9	7210.9	8495.9	9561.9	9672.9	9222.9	9972.9	10215.9
62.5°	2770.0	2947.0	3648.0	5990.9	8048.9	9550.9	10231.9	10202.9	11149.9	11410.9
65°	1716.0	1827.0	2289.0	4891.9	7423.9	9562.9	10816.9	11392.9	12391.9	12656.9
67.5°	1356.0	1407.0	1648.0	3756.0	6346.9	9292.9	11400.9	12511.9	13560.9	13770.9
70°	911.0	942.0	1199.0	2518.0	4722.0	8046.9	11389.9	13073.9	14162.9	14267.8
72.5°	480.0	504.0	701.0	1166.0	2852.0	5719.9	9600.9	12401.9	13563.9	13405.9
75°	240.0	280.0	472.0	592.0	1218.0	3190.0	5961.9	9777.9	10675.9	10063.9
77.5°	182.0	220.0	390.0	390.0	424.0	1074.0	2525.0	5332.9	4918.9	4096.0
80°	116.0	150.0	341.0	295.0	177.0	273.0	658.0	1494.0	1045.0	795.0
82.5°	68.0	98.0	284.0	195.0	99.0	101.0	186.0	318.0	271.0	211.0
85°	27.0	64.0	195.0	77.0	39.0	25.0	56.0	68.0	56.0	42.0
87.5°	0.0	15.0	34.0	0.0	3.0	2.0	4.0	5.0	5.0	4.0
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°
2470.0	0°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2472.0	2.5°	2481.0	2483.0	2489.0	2490.0	2476.0	2458.0	2451.0	2448.0	2436.0	2435.0
2488.0	5°	2511.0	2520.0	2511.0	2485.0	2423.0	2336.0	2270.0	2216.0	2167.0	2152.0
2543.0	7.5°	2571.0	2580.0	2553.0	2451.0	2295.0	2122.0	1966.0	1856.0	1757.0	1720.0
2610.0	10°	2657.0	2669.0	2584.0	2378.0	2102.0	1824.0	1560.0	1374.0	1229.0	1170.0
2701.0	12.5°	2765.0	2770.0	2601.0	2267.0	1851.0	1454.0	1080.0	881.0	752.0	704.0
2811.0	15°	2884.0	2877.0	2603.0	2116.0	1509.0	1028.0	705.0	579.0	527.0	511.0
2921.0	17.5°	3009.0	2980.0	2563.0	1898.0	1134.0	703.0	523.0	493.0	484.0	480.0
3030.0	20°	3132.0	3067.0	2490.0	1613.0	814.0	525.0	475.0	466.0	461.0	459.0
3140.0	22.5°	3244.0	3133.0	2365.0	1282.0	591.0	464.0	449.0	441.0	432.0	428.0
3247.0	25°	3353.0	3171.0	2189.0	973.0	473.0	434.0	422.0	407.0	395.0	390.0
3362.0	27.5°	3459.0	3195.0	1969.0	720.0	422.0	406.0	384.0	363.0	354.0	352.0
3485.0	30°	3572.0	3203.0	1719.0	537.0	391.0	371.0	339.0	315.0	310.0	311.0
3651.0	32.5°	3710.0	3215.0	1467.0	440.0	365.0	329.0	291.0	266.0	262.0	266.0
3893.0	35°	3875.0	3239.0	1224.0	405.0	342.0	286.0	245.0	224.0	220.0	223.0
4203.0	37.5°	4099.0	3278.0	997.0	398.0	323.0	250.0	206.0	189.0	189.0	190.0
4583.0	40°	4397.0	3382.0	794.0	393.0	313.0	223.0	174.0	167.0	170.0	172.0
5066.9	42.5°	4759.9	3603.0	657.0	387.0	302.0	211.0	158.0	155.0	160.0	162.0
5646.9	45°	5166.9	3883.0	609.0	377.0	292.0	219.0	151.0	147.0	153.0	154.0
6296.9	47.5°	5587.9	4157.0	603.0	366.0	282.0	231.0	149.0	140.0	147.0	148.0
6990.9	50°	6013.9	4336.0	609.0	349.0	266.0	231.0	150.0	133.0	139.0	142.0
7710.9	52.5°	6442.9	4418.0	605.0	312.0	238.0	217.0	150.0	127.0	133.0	135.0
8488.9	55°	6858.9	4402.0	544.0	257.0	202.0	192.0	146.0	122.0	126.0	127.0
9223.9	57.5°	7187.9	4179.0	431.0	200.0	164.0	160.0	133.0	116.0	119.0	118.0
9897.9	60°	7359.9	3689.0	308.0	154.0	129.0	126.0	117.0	108.0	110.0	105.0
10468.9	62.5°	7361.9	3041.0	206.0	122.0	103.0	100.0	100.0	97.0	95.0	85.0
10910.9	65°	7204.9	2322.0	137.0	97.0	83.0	78.0	84.0	83.0	76.0	62.0
11045.9	67.5°	6848.9	1522.0	104.0	76.0	64.0	61.0	67.0	70.0	65.0	52.0
10553.9	70°	6116.9	886.0	86.0	59.0	48.0	45.0	54.0	60.0	54.0	42.0
9020.9	72.5°	5080.9	478.0	70.0	44.0	33.0	30.0	43.0	49.0	43.0	31.0
5787.9	75°	3297.0	256.0	54.0	29.0	17.0	19.0	32.0	36.0	30.0	20.0
1699.0	77.5°	1107.0	113.0	34.0	14.0	8.0	8.0	19.0	22.0	14.0	7.0
309.0	80°	247.0	47.0	14.0	6.0	3.0	3.0	4.0	4.0	2.0	0.0
95.0	82.5°	81.0	19.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	85°	31.0	7.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	12.0	1.0	0.0	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

180°
2470.0
2437.0
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