

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: P952661

Luminaire Tested: **GALN-SB6B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19060 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

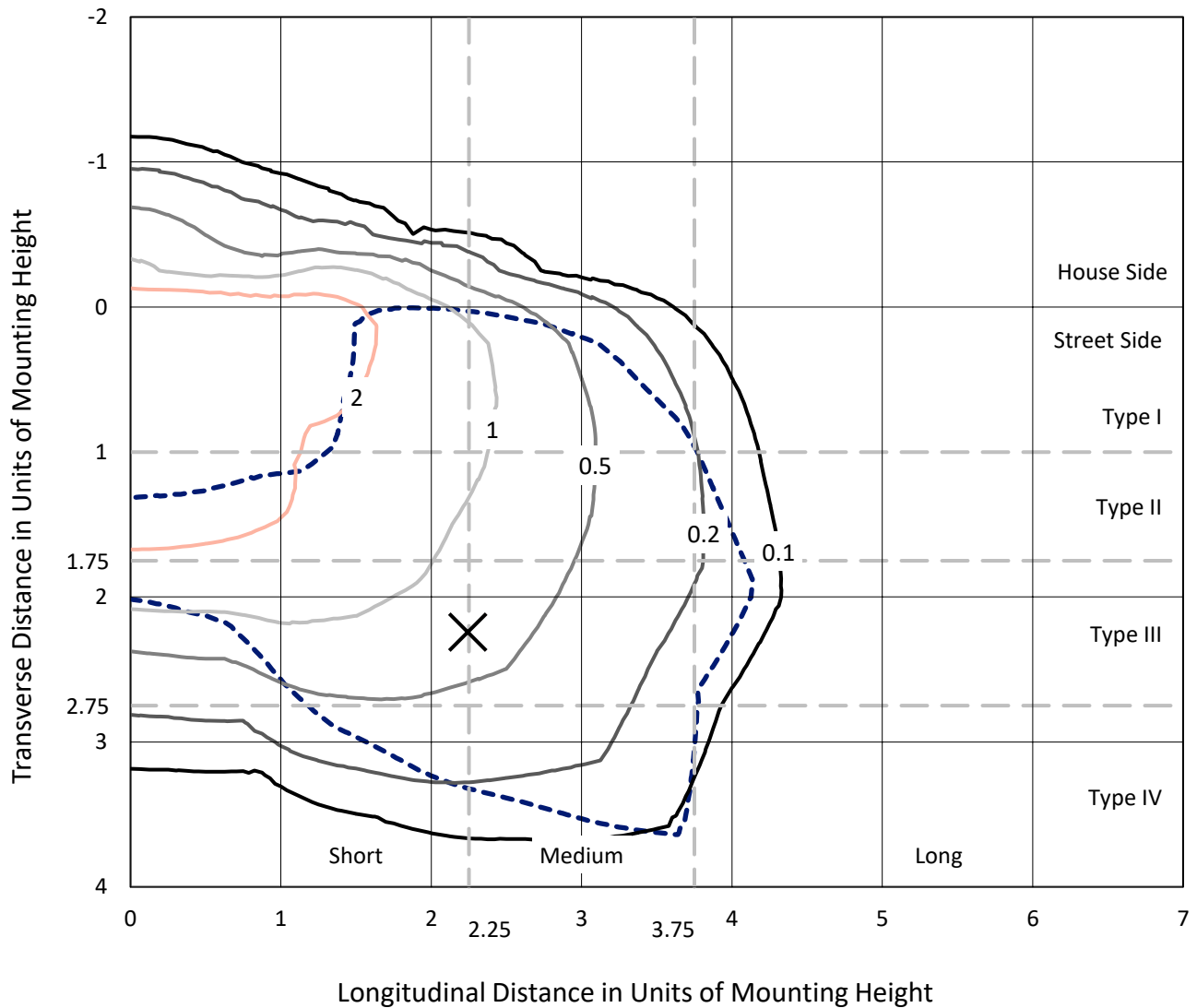
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

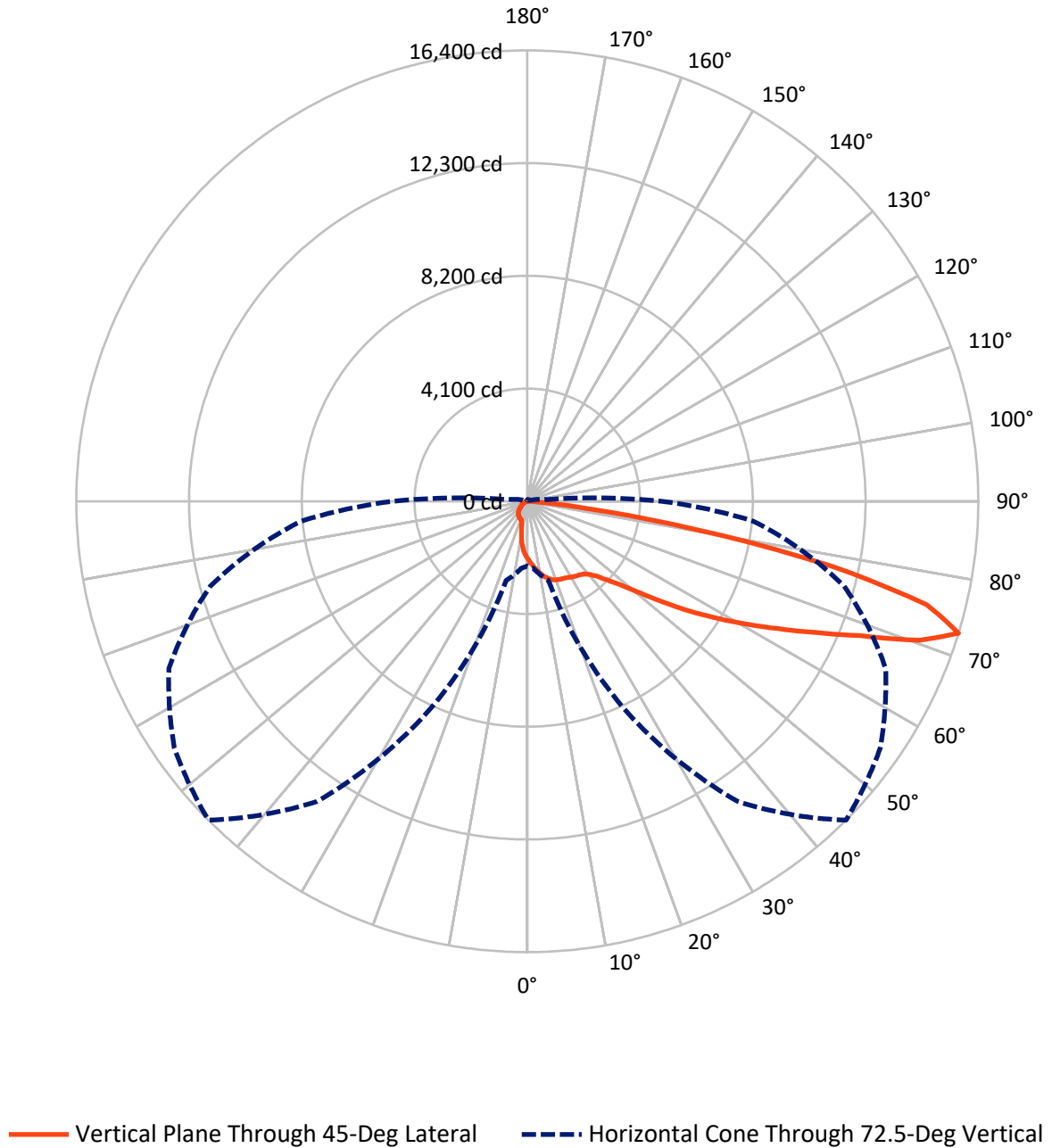
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2002.7	0.0	2002.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17057.3	0.0	17057.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	19060.0	0.0	19060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.0
10°-20°	575.0	3.0
20°-30°	944.2	5.0
30°-40°	1339.1	7.0
40°-50°	2213.4	11.6
50°-60°	3976.1	20.9
60°-70°	5521.1	29.0
70°-80°	4004.8	21.0
80°-90°	289.5	1.5
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°	19060.0	100.0
0°-180°	19060.0	100.0

Coefficient of Utilization



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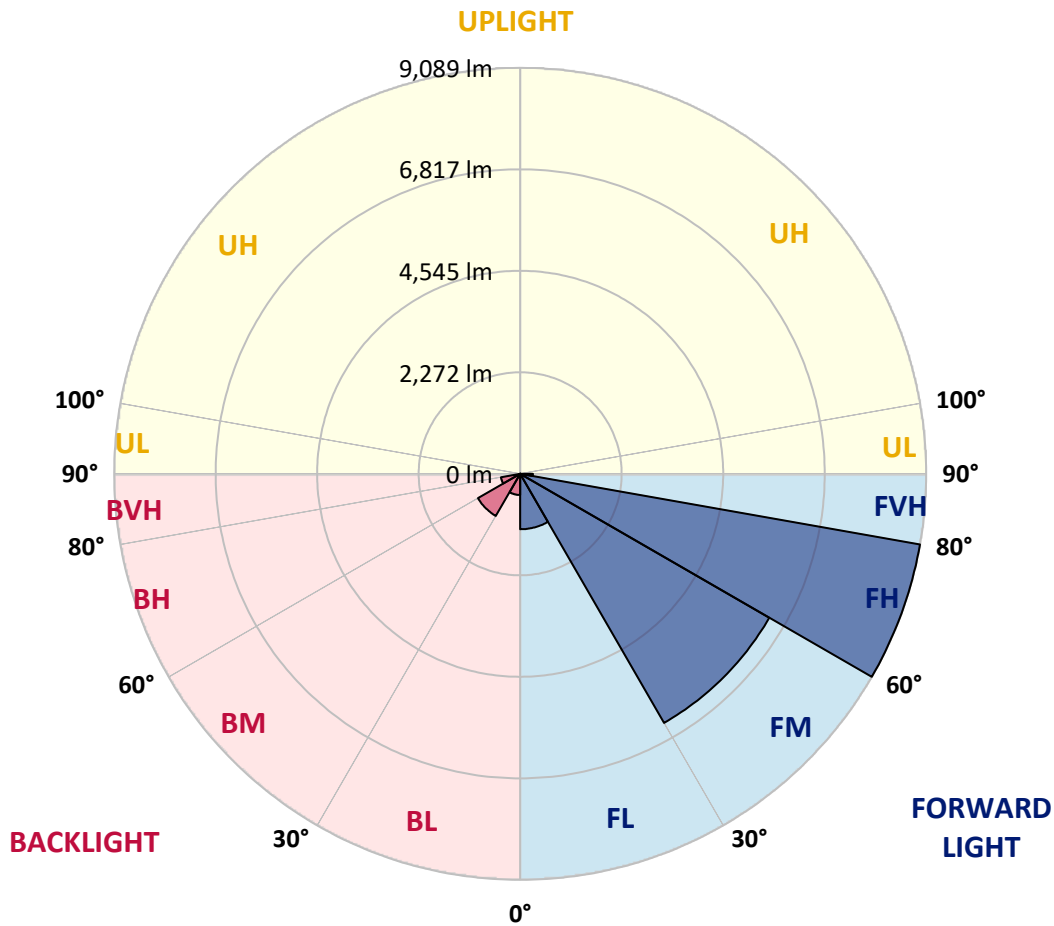
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.6	6.5			
FM (30°-60°)	6439.5	33.8			
FH (60°-80°)	9089.2	47.7			G4/12000
FVH (80°-90°)	287.1	1.5			G3/500
BL (0°-30°)	474.4	2.5	B1/500		
BM (30°-60°)	1089.2	5.7	B2/2500		
BH (60°-80°)	436.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1
2.5°	2280.6	2284.5	2281.9	2266.3	2240.3	2226.0	2218.2	2192.1	2175.2	2145.3
5°	2490.1	2505.7	2496.6	2465.3	2415.9	2380.8	2370.4	2317.0	2268.9	2213.0
7.5°	2712.5	2720.3	2703.4	2663.1	2596.7	2536.9	2527.8	2453.6	2376.9	2291.0
10°	2905.1	2914.2	2888.2	2829.6	2754.2	2680.0	2667.0	2585.0	2494.0	2388.6
12.5°	3066.4	3075.5	3041.7	2971.4	2888.2	2811.4	2798.4	2712.5	2612.4	2495.3
15°	3188.7	3205.6	3160.1	3084.6	2994.8	2918.1	2911.6	2827.0	2729.4	2599.3
17.5°	3260.2	3277.2	3234.2	3143.2	3066.4	3001.3	2993.5	2923.3	2832.2	2707.3
20°	3272.0	3287.6	3242.0	3162.7	3098.9	3046.9	3043.0	2992.2	2925.9	2806.2
22.5°	3236.8	3256.3	3214.7	3151.0	3106.7	3079.4	3074.2	3045.6	3007.9	2906.4
25°	3200.4	3216.0	3184.8	3128.8	3105.4	3102.8	3106.7	3101.5	3093.7	3007.9
27.5°	3197.8	3214.7	3179.6	3126.2	3113.2	3140.6	3144.5	3169.2	3175.7	3100.2
30°	3219.9	3231.6	3197.8	3141.9	3135.3	3197.8	3199.1	3243.3	3253.7	3178.3
32.5°	3268.0	3281.1	3247.2	3165.3	3156.2	3243.3	3247.2	3305.8	3322.7	3261.5
35°	3381.2	3396.8	3357.8	3230.3	3197.8	3286.3	3298.0	3366.9	3400.7	3350.0
37.5°	3663.5	3618.0	3564.7	3361.7	3292.8	3353.9	3373.4	3454.1	3513.9	3455.4
40°	4364.8	4221.7	4055.1	3585.5	3459.3	3498.3	3513.9	3594.6	3676.6	3619.3
42.5°	5417.3	5248.1	4980.1	4100.7	3710.4	3729.9	3741.6	3811.9	3927.6	3882.1
45°	6355.3	6294.1	6020.9	4980.1	4180.0	4083.8	4098.1	4134.5	4304.9	4288.0
47.5°	7076.0	7040.9	6830.1	5989.7	4973.6	4517.0	4557.3	4574.2	4820.1	4880.0
50°	7630.2	7617.2	7428.6	6887.4	6010.5	5155.8	5170.1	5133.6	5501.8	5650.1
52.5°	8153.2	8197.4	8058.2	7721.3	7117.6	5992.3	5989.7	5818.0	6314.9	6538.7
55°	8625.5	8641.1	8655.4	8572.1	8231.3	6944.6	6919.9	6638.9	7258.1	7489.7
57.5°	9069.1	9075.6	9203.1	9373.5	9390.4	7967.2	7921.6	7584.7	8288.5	8453.7
60°	9367.0	9396.9	9666.2	10139.8	10346.6	9022.3	8997.5	8654.1	9337.1	9413.8
62.5°	8937.7	9119.8	9798.9	10738.2	11249.5	10191.8	10180.1	9857.5	10440.3	10377.9
65°	7234.7	7543.0	8737.3	11142.8	12135.5	11498.0	11514.9	11171.5	11573.5	11370.5
67.5°	5060.8	5386.0	6798.9	11175.4	13125.5	13031.9	13129.4	12590.8	12776.9	12321.5
70°	3499.6	3667.4	4587.2	10475.4	13897.0	15144.6	15142.0	14334.1	13973.8	12754.8
72.5°	2353.5	2440.6	2979.2	8310.6	13329.8	16400.1	16324.6	15666.3	14377.1	11928.6
75°	992.6	1056.4	1379.0	4670.5	10545.7	15004.1	14799.9	13845.0	12774.3	9393.0
77.5°	314.8	342.2	543.8	1671.8	5808.8	11278.1	11062.2	8646.3	8561.7	4712.1
80°	149.6	174.3	305.7	671.3	2285.8	6134.1	6104.2	3922.4	3683.1	1272.4
82.5°	65.0	76.8	169.1	359.1	1022.6	2188.2	2232.5	1334.8	1104.5	482.7
85°	20.8	27.3	78.1	165.2	431.9	543.8	537.3	317.4	444.9	262.8
87.5°	0.0	0.0	26.0	37.7	44.2	31.2	35.1	27.3	123.6	72.9
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°
2088.1	0°	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1
2114.1	2.5°	2098.5	2077.7	2041.2	2007.4	1977.5	1947.6	1929.3	1903.3	1900.7	1900.7
2147.9	5°	2112.8	2079.0	2013.9	1945.0	1865.6	1790.1	1714.7	1641.8	1618.4	1601.5
2202.5	7.5°	2154.4	2101.1	1998.3	1866.9	1716.0	1550.8	1435.0	1310.1	1261.9	1235.9
2275.4	10°	2214.3	2141.4	1985.3	1755.0	1510.4	1285.4	1120.1	984.8	932.8	910.7
2354.8	12.5°	2280.6	2190.8	1961.9	1615.8	1285.4	1016.1	854.7	792.3	784.5	784.5
2449.7	15°	2360.0	2250.7	1921.5	1451.9	1049.9	804.0	746.8	749.4	757.2	762.4
2542.1	17.5°	2441.9	2314.4	1857.8	1268.4	841.7	723.3	724.6	728.5	735.1	740.3
2642.3	20°	2530.4	2378.2	1773.2	1073.3	722.0	699.9	703.8	707.7	712.9	715.5
2735.9	22.5°	2625.4	2438.0	1673.1	882.1	681.7	680.4	681.7	685.6	692.1	692.1
2845.2	25°	2726.8	2504.4	1558.6	742.9	660.9	660.9	663.5	666.1	671.3	671.3
2950.6	27.5°	2830.9	2565.5	1437.6	670.0	642.7	641.4	641.4	645.3	647.9	649.2
3054.7	30°	2945.4	2637.1	1316.6	654.4	628.4	621.9	618.0	620.6	623.2	624.5
3164.0	32.5°	3062.5	2706.0	1208.6	660.9	614.1	602.4	589.3	586.7	586.7	591.9
3277.2	35°	3192.6	2781.5	1125.3	683.0	606.3	573.7	552.9	541.2	542.5	550.3
3412.5	37.5°	3348.7	2872.6	1064.2	702.5	601.1	541.2	507.4	493.1	484.0	493.1
3598.5	40°	3553.0	3006.6	1020.0	718.1	594.5	503.5	457.9	434.5	417.6	422.8
3887.3	42.5°	3853.5	3217.3	1003.1	719.4	580.2	459.2	407.2	376.0	351.3	352.6
4321.8	45°	4275.0	3550.4	1090.2	702.5	549.0	411.1	353.9	312.2	296.6	292.7
4971.0	47.5°	4852.6	4035.6	1291.9	667.4	503.5	364.3	301.8	266.7	255.0	248.5
5823.2	50°	5626.7	4658.8	1515.6	628.4	457.9	320.0	258.9	236.8	229.0	222.5
6834.0	52.5°	6524.4	5291.1	1699.1	589.3	412.4	281.0	231.6	218.6	212.1	206.9
7809.7	55°	7347.9	5726.9	1688.7	547.7	368.2	249.8	212.1	204.3	196.4	191.2
8650.2	57.5°	7860.5	5788.0	1392.0	502.2	317.4	225.1	193.8	188.6	179.5	173.0
9377.4	60°	8096.0	5439.4	975.7	442.3	266.7	201.7	174.3	171.7	160.0	150.9
10065.6	62.5°	8138.9	4791.5	650.5	368.2	222.5	179.5	154.8	150.9	135.3	119.7
10625.1	65°	7964.6	3865.2	450.1	287.5	189.9	156.1	132.7	124.9	108.0	92.4
10757.8	67.5°	7413.0	2713.8	313.5	206.9	161.3	123.6	105.4	102.8	89.8	76.8
10081.2	70°	6402.1	1546.9	209.5	154.8	127.5	84.6	83.3	85.9	72.9	62.4
8236.5	72.5°	4908.6	707.7	130.1	113.2	87.2	57.2	66.3	67.7	55.9	46.8
5138.8	75°	2889.5	303.1	82.0	72.9	44.2	37.7	48.1	49.4	37.7	29.9
1878.6	77.5°	983.5	114.5	52.0	42.9	22.1	20.8	31.2	31.2	20.8	11.7
377.3	80°	223.8	42.9	26.0	16.9	10.4	9.1	10.4	9.1	5.2	1.3
115.8	82.5°	63.7	16.9	10.4	6.5	3.9	3.9	1.3	0.0	0.0	0.0
40.3	85°	18.2	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	7.8	1.3	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

<u>180°</u>
2088.1
1907.2
1609.3
1239.8
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627.1
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