

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: P939428

Luminaire Tested: **GALN-SB2A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6792 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

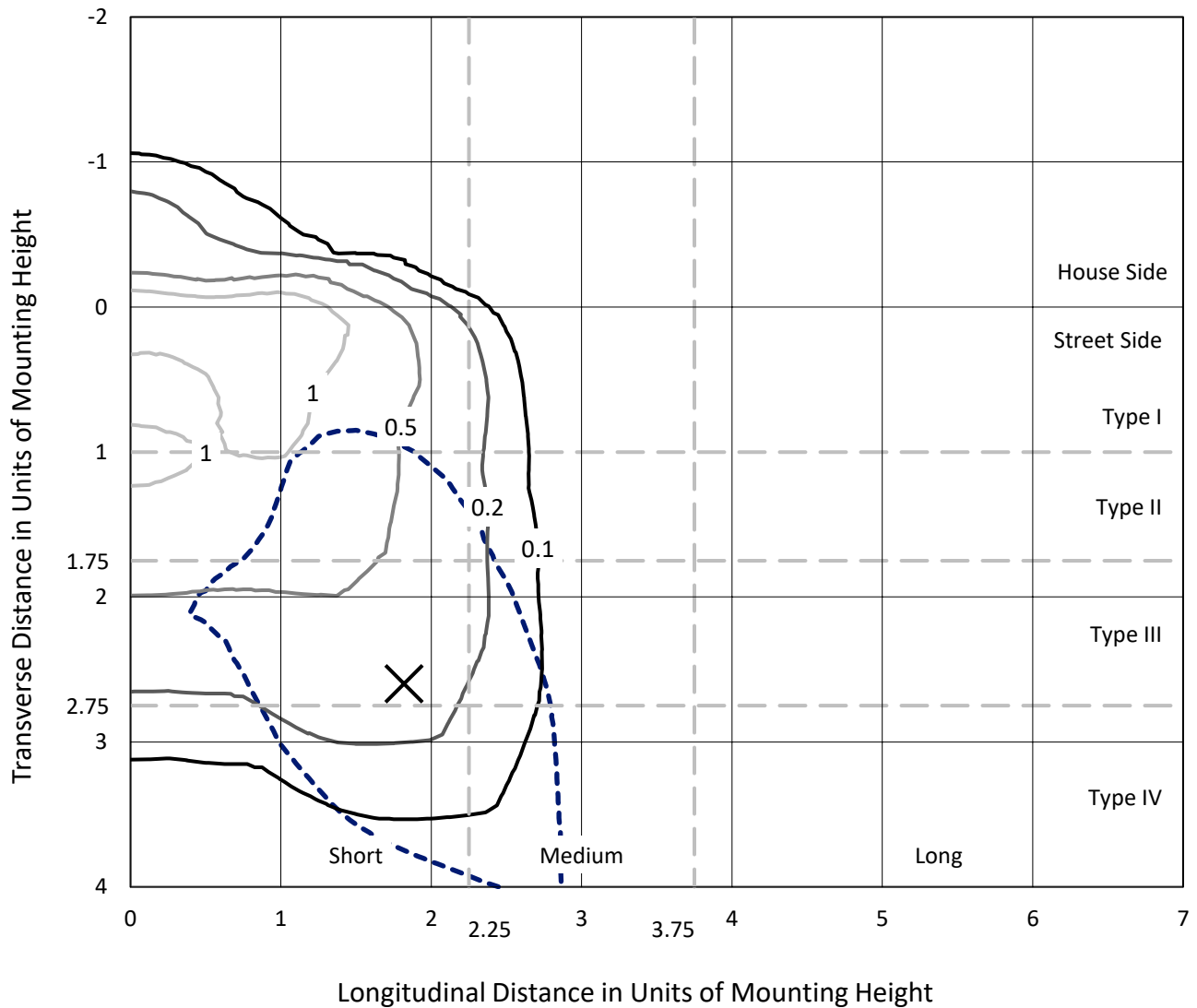
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

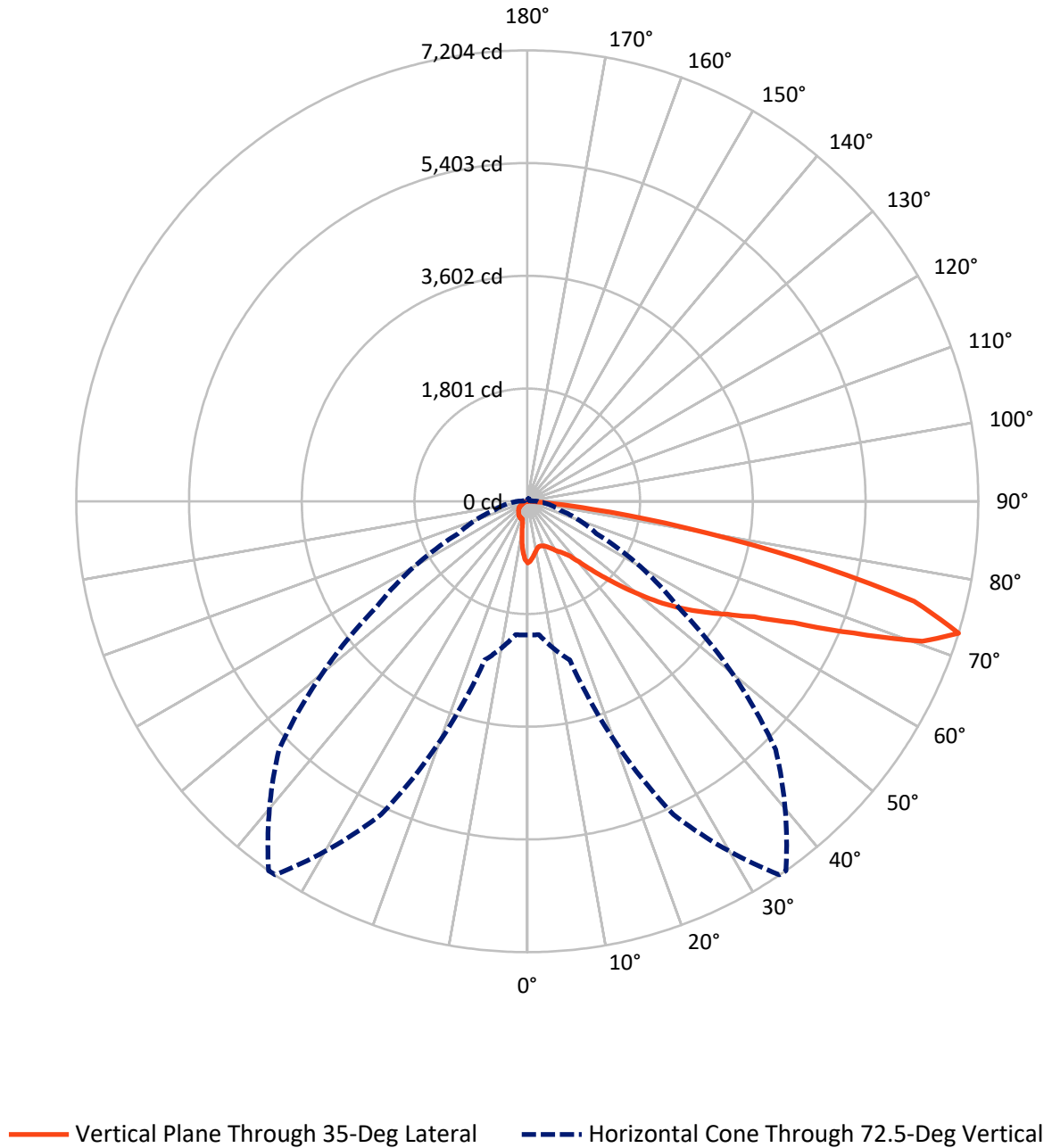
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	764.4	0.0	764.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6027.6	0.0	6027.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	6792.0	0.0	6792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.2
10°-20°	189.2	2.8
20°-30°	307.4	4.5
30°-40°	512.9	7.6
40°-50°	970.4	14.3
50°-60°	1542.0	22.7
60°-70°	1907.6	28.1
70°-80°	1185.8	17.5
80°-90°	95.8	1.4
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°	6792.0	100.0
0°-180°	6792.0	100.0

Coefficient of Utilization



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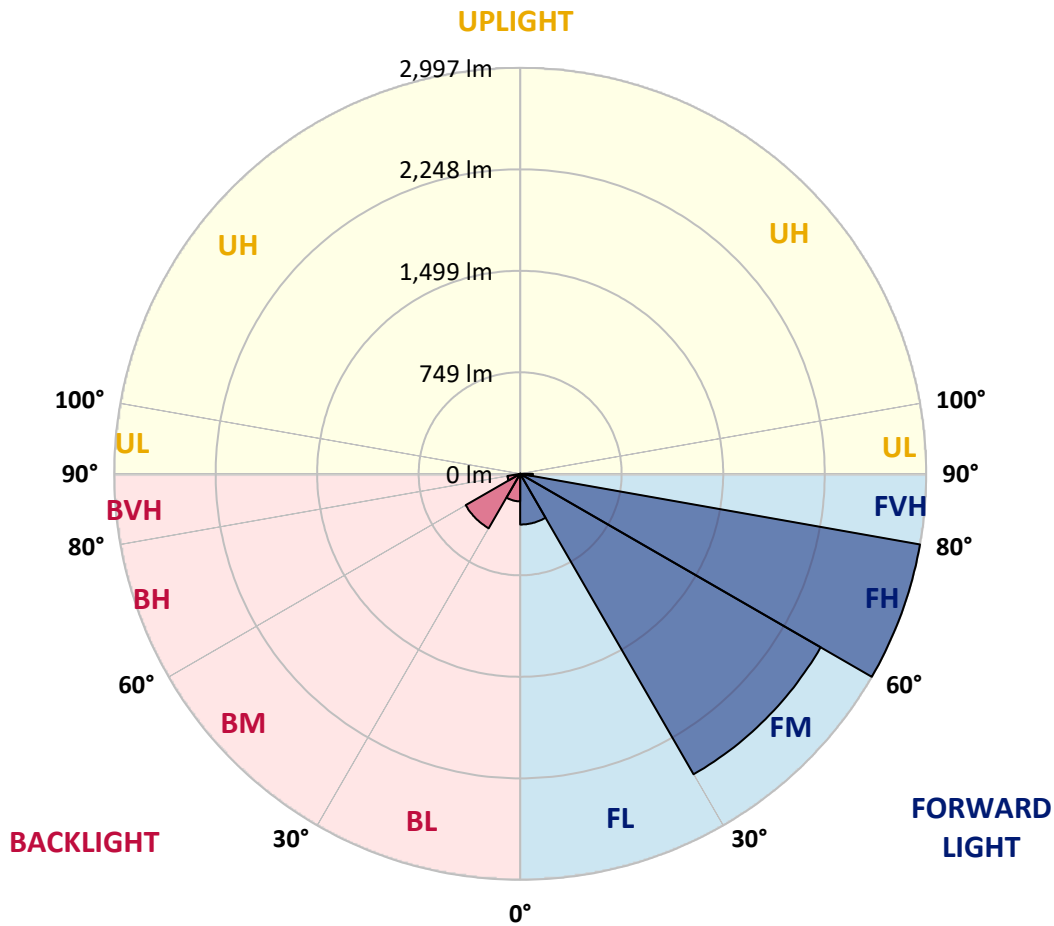
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.4	5.5			
FM (30°-60°)	2561.3	37.7			
FH (60°-80°)	2997.4	44.1			G2/5000
FVH (80°-90°)	94.5	1.4			G1/100
BL (0°-30°)	203.1	3.0	B1/500		
BM (30°-60°)	464.1	6.8	B1/1000		
BH (60°-80°)	95.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
2.5°	940.6	948.6	950.0	952.5	952.5	955.5	960.5	967.5	978.9	984.9
5°	866.9	872.9	880.4	886.3	897.8	899.3	918.7	937.6	964.0	983.9
7.5°	792.8	799.8	809.7	824.1	839.1	843.5	872.9	904.8	946.6	983.9
10°	740.5	741.0	750.0	764.4	788.3	793.8	829.6	874.9	927.2	977.9
12.5°	711.2	714.7	718.6	729.6	752.5	756.0	794.3	847.5	907.7	974.4
15°	711.2	713.7	716.1	721.6	740.0	743.0	776.9	830.1	897.8	975.9
17.5°	718.6	722.6	720.6	727.1	746.5	748.5	778.4	825.1	897.3	985.4
20°	736.5	739.5	735.6	739.5	758.9	762.9	793.8	834.6	905.8	1001.8
22.5°	764.9	766.4	757.0	759.9	779.8	784.8	820.7	861.5	926.2	1028.2
25°	800.7	803.7	789.3	792.8	811.7	817.7	859.0	901.8	958.5	1064.5
27.5°	842.1	843.5	831.1	830.6	855.0	863.5	905.3	951.5	1001.8	1110.3
30°	889.3	893.8	881.9	879.9	910.7	917.7	959.0	1012.8	1065.5	1179.0
32.5°	926.7	930.1	923.2	928.2	959.5	965.0	1024.2	1099.3	1165.5	1276.5
35°	980.4	982.4	966.5	975.4	1011.3	1025.2	1113.3	1220.8	1291.5	1398.9
37.5°	1175.0	1175.0	1107.3	1063.0	1097.4	1109.8	1235.2	1373.6	1446.7	1563.2
40°	1444.2	1439.8	1340.7	1250.1	1245.7	1270.1	1408.9	1566.2	1647.3	1760.3
42.5°	1731.4	1724.4	1589.6	1500.0	1485.0	1493.5	1609.5	1803.6	1886.2	2000.6
45°	1986.2	1984.2	1860.8	1740.3	1713.5	1740.3	1859.8	2081.3	2140.5	2260.9
47.5°	2199.7	2199.7	2109.6	2031.0	2017.1	2033.0	2198.7	2389.3	2383.8	2538.1
50°	2445.5	2443.6	2358.0	2324.1	2338.5	2360.9	2588.9	2713.8	2635.7	2810.3
52.5°	2617.7	2629.7	2600.3	2594.8	2668.5	2707.3	2985.0	3031.3	2861.1	3068.6
55°	2754.1	2768.0	2801.9	2840.2	2982.0	3032.8	3368.7	3332.4	3049.7	3292.6
57.5°	2947.2	2927.3	2979.5	3055.2	3284.6	3345.8	3740.5	3616.6	3201.5	3474.2
60°	3181.6	3184.6	3193.5	3289.1	3586.7	3665.3	4106.8	3885.3	3299.0	3585.7
62.5°	3463.3	3467.8	3486.2	3633.0	3992.3	4066.5	4496.9	4105.3	3343.8	3554.3
65°	3443.9	3462.8	3668.3	4170.5	4608.9	4682.1	4952.3	4259.5	3276.2	3267.7
67.5°	3137.3	3168.2	3512.0	4812.5	5538.6	5620.2	5502.7	4289.9	2984.0	2541.1
70°	2735.2	2746.1	3159.7	5389.8	6615.0	6697.6	5995.4	3956.0	2264.4	1417.4
72.5°	2136.0	2138.5	2623.7	5523.6	7199.3	7203.8	5608.7	2936.7	1217.8	544.4
75°	1525.9	1510.9	1757.3	4479.5	6333.8	6384.6	4204.8	1377.5	465.3	257.3
77.5°	818.2	834.6	994.3	2656.6	4375.5	4462.1	2294.3	397.1	236.9	175.2
80°	252.8	266.8	407.6	1216.3	2478.4	2530.6	850.5	176.7	165.2	124.9
82.5°	79.6	82.6	190.1	511.1	1028.7	1052.6	246.3	100.0	113.0	82.6
85°	22.9	23.4	84.6	190.6	254.3	259.3	69.2	38.8	64.7	51.3
87.5°	2.5	8.0	31.9	31.9	22.4	21.9	7.5	8.5	18.4	6.5
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°
984.4	0°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
988.9	2.5°	986.4	986.9	980.4	969.5	957.5	947.6	935.1	925.2	918.2	916.2
997.8	5°	993.3	989.9	971.4	938.1	898.3	864.0	825.6	795.3	775.4	766.9
1007.3	7.5°	1003.8	993.8	953.5	887.8	811.7	744.0	675.3	622.1	588.2	571.3
1016.2	10°	1012.8	992.8	923.7	815.2	698.7	596.2	503.6	439.4	403.6	386.7
1026.7	12.5°	1021.2	992.4	884.9	729.1	571.3	445.9	359.8	328.0	318.0	314.5
1043.6	15°	1037.1	993.8	836.1	630.5	444.4	336.9	305.6	305.1	307.1	306.1
1069.5	17.5°	1059.0	995.3	780.8	526.0	342.9	297.1	295.6	300.1	303.1	301.6
1101.8	20°	1087.4	1001.3	722.1	422.5	294.6	287.2	290.6	294.6	297.1	294.6
1145.1	22.5°	1127.2	1011.8	657.9	339.4	279.2	281.2	284.2	288.6	291.1	287.7
1200.4	25°	1176.0	1028.2	594.7	295.1	271.7	274.2	278.7	283.7	286.7	283.2
1270.1	27.5°	1239.2	1054.6	536.5	285.2	264.3	265.8	272.2	279.7	283.7	279.2
1369.1	30°	1330.8	1097.9	486.2	289.6	259.8	256.3	265.3	275.7	280.2	276.2
1504.0	32.5°	1452.2	1159.1	455.4	296.6	257.8	245.4	253.8	267.2	274.7	272.2
1680.1	35°	1611.5	1252.1	443.4	304.6	256.3	233.9	239.9	254.3	267.2	269.7
1902.1	37.5°	1804.5	1381.5	446.9	308.1	251.8	224.4	227.4	239.9	256.8	264.8
2151.9	40°	2024.0	1532.3	466.8	304.6	246.8	216.5	217.0	226.4	241.4	253.3
2420.7	42.5°	2250.5	1708.5	503.6	291.6	242.4	209.5	208.0	214.5	224.4	232.9
2688.9	45°	2465.9	1889.6	540.0	273.7	236.9	202.6	199.1	201.6	203.5	207.0
2950.2	47.5°	2654.1	2017.1	529.5	257.3	229.4	194.6	188.6	187.6	181.6	181.2
3183.6	50°	2784.0	2044.9	470.3	240.9	218.5	185.6	176.2	170.2	159.8	154.8
3358.3	52.5°	2825.3	1934.9	384.2	224.4	200.6	173.7	160.2	150.8	137.9	133.4
3458.8	55°	2770.5	1719.4	307.1	204.5	175.7	157.8	142.8	130.4	119.9	114.5
3469.7	57.5°	2636.6	1445.2	242.9	181.2	149.3	139.8	124.9	112.5	103.5	98.0
3348.3	60°	2414.7	1147.6	192.1	153.3	127.4	120.4	105.0	97.0	89.1	82.6
3034.8	62.5°	2077.8	819.2	150.8	121.4	106.5	98.5	89.6	83.6	74.2	65.2
2470.9	65°	1621.4	501.2	116.5	89.1	85.6	81.6	76.1	70.7	59.2	50.3
1611.9	67.5°	1022.7	237.4	83.1	67.2	67.7	65.7	63.2	58.7	50.3	42.3
722.1	70°	450.4	115.0	54.7	51.3	50.3	50.3	52.3	50.8	42.8	35.3
250.8	72.5°	153.3	61.7	40.8	38.8	36.3	35.8	43.8	42.3	34.3	27.4
124.9	75°	80.1	41.3	29.9	27.9	21.9	26.4	34.8	32.8	24.4	17.9
82.6	77.5°	52.3	29.4	20.4	17.9	12.4	17.4	25.9	22.9	14.4	9.0
54.2	80°	32.8	19.4	11.9	8.5	6.0	9.5	13.9	10.0	5.5	2.0
31.9	82.5°	17.4	10.0	4.5	3.0	2.5	3.0	3.5	2.5	1.0	0.0
16.4	85°	7.0	3.5	1.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0
3.0	87.5°	2.5	0.5	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>
984.4
919.7
769.9
573.8
387.2
313.5
305.6
301.1
294.1
287.2
282.7
279.2
275.7
272.2
269.7
266.8
257.3
236.4
209.0
180.7
155.3
132.9
114.5
97.0
81.1
63.7
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41.3
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25.9
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