

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: P946019

Luminaire Tested: **GALN-SB1D-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9118 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

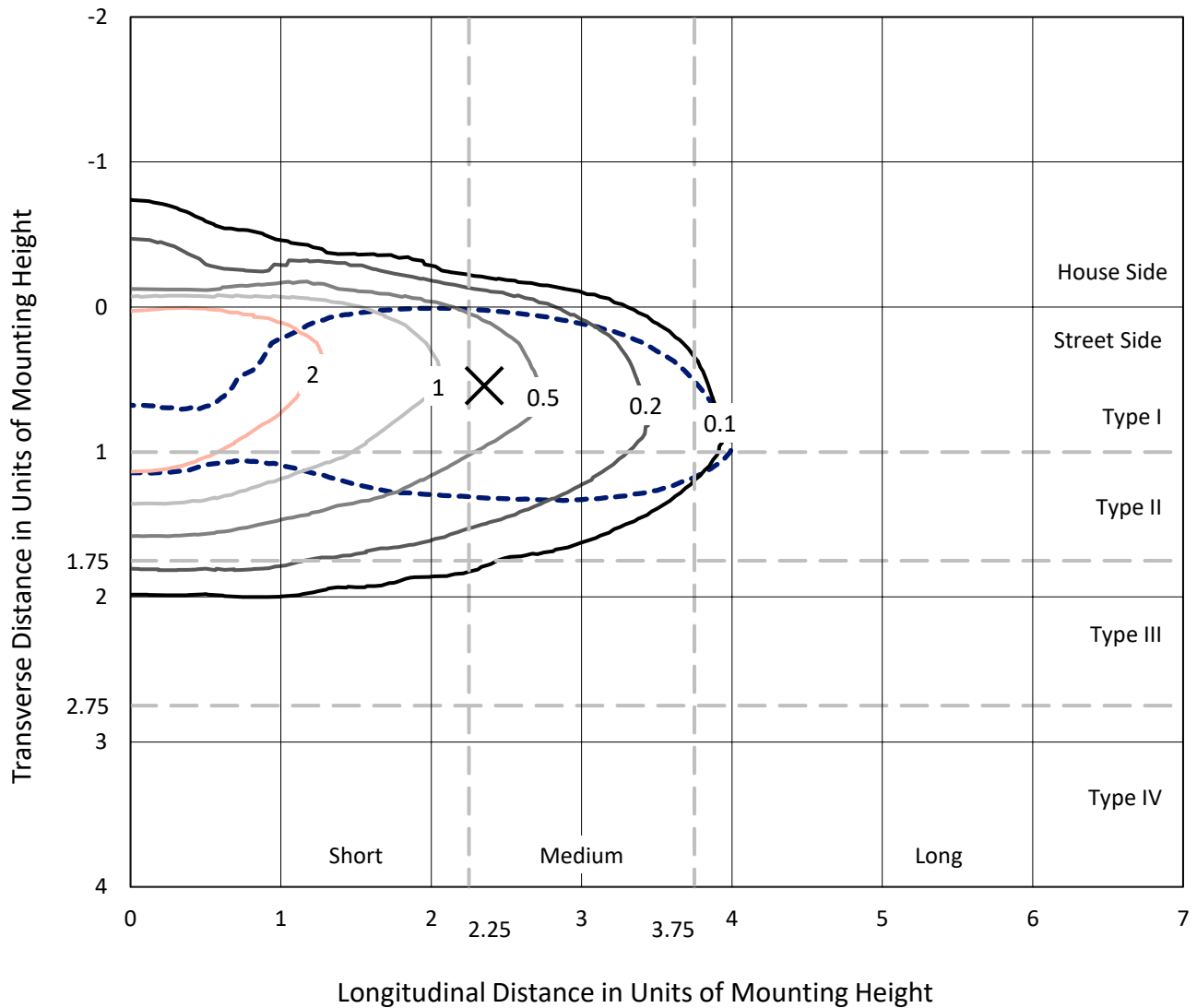
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946019
 CATALOG NUMBER: GALN-SB1D-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

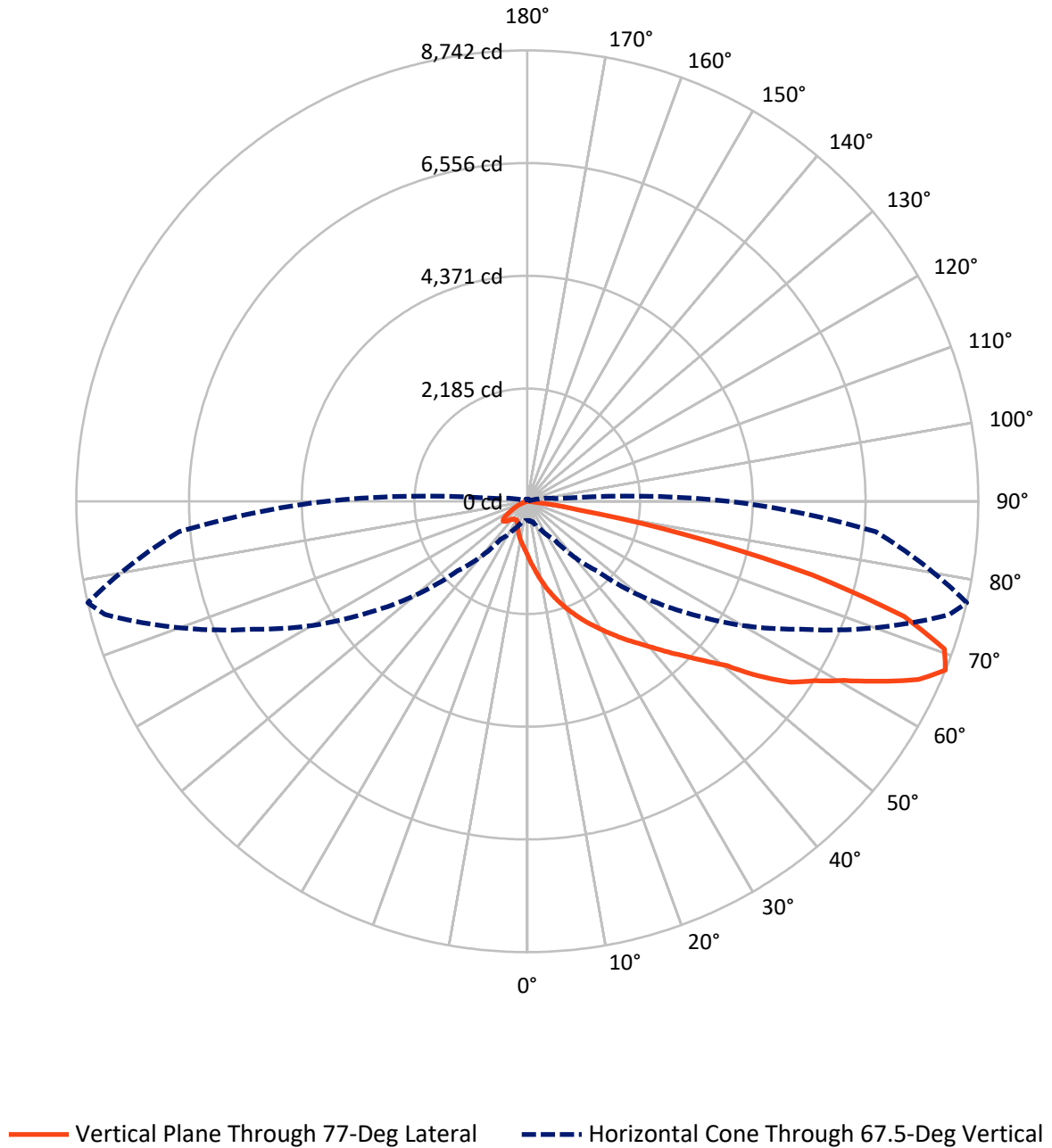
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P946019
CATALOG NUMBER: GALN-SB1D-750-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.8	0.0	670.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	8447.2	0.0	8447.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	9118.0	0.0	9118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.2
10°-20°	375.8	4.1
20°-30°	725.2	8.0
30°-40°	1259.0	13.8
40°-50°	1828.0	20.0
50°-60°	2099.2	23.0
60°-70°	1822.5	20.0
70°-80°	858.4	9.4
80°-90°	42.5	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°	9118.0	100.0
0°-180°	9118.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946019

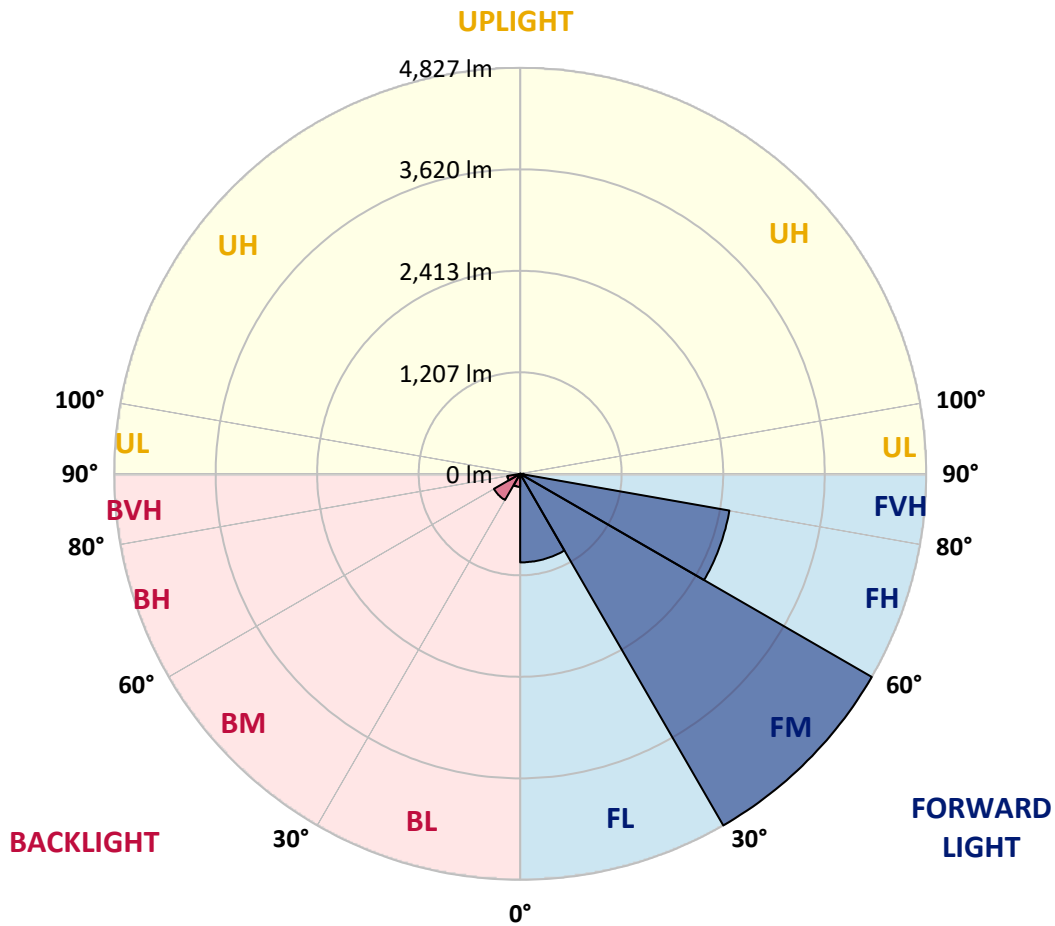
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.0	11.5			
FM (30°-60°)	4826.8	52.9			
FH (60°-80°)	2525.7	27.7			G2/5000
FVH (80°-90°)	41.7	0.5			G1/100
BL (0°-30°)	155.3	1.7	B1/500		
BM (30°-60°)	359.4	3.9	B1/1000		
BH (60°-80°)	155.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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 II Medium



REPORT NUMBER: P946019
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1455.7	1464.8	1451.7	1426.8	1389.5	1365.1	1305.7	1249.6	1187.3	1167.5
5°	1774.5	1782.4	1767.7	1740.5	1690.7	1643.1	1565.0	1447.8	1326.0	1287.0
7.5°	2010.6	2015.1	2009.5	1984.5	1937.0	1883.2	1796.0	1657.3	1476.7	1433.6
10°	2180.4	2195.2	2193.5	2183.8	2152.1	2108.5	2015.7	1857.7	1645.4	1589.9
12.5°	2293.1	2309.5	2319.2	2340.7	2339.0	2311.2	2229.7	2062.7	1813.5	1748.4
15°	2326.0	2343.5	2380.3	2430.1	2474.3	2488.5	2431.3	2263.7	1998.7	1915.5
17.5°	2307.3	2334.5	2378.6	2457.3	2554.1	2618.1	2611.9	2457.9	2166.9	2071.7
20°	2348.6	2374.7	2409.2	2475.4	2588.1	2704.2	2750.6	2643.6	2333.9	2234.2
22.5°	2577.4	2572.8	2576.2	2587.0	2654.4	2769.3	2865.0	2812.3	2499.2	2397.3
25°	2939.7	2919.3	2884.8	2826.5	2809.5	2865.0	2964.6	2961.8	2673.6	2564.3
27.5°	3355.3	3351.9	3271.0	3130.5	3051.3	3029.8	3077.3	3107.3	2846.3	2729.7
30°	3753.4	3762.4	3653.1	3496.9	3351.4	3267.0	3224.0	3245.5	3021.8	2908.0
32.5°	4099.9	4109.5	3990.6	3807.7	3627.7	3525.7	3435.2	3381.9	3213.2	3089.2
35°	4392.6	4402.2	4265.8	4063.6	3871.7	3779.4	3676.9	3531.4	3405.7	3290.2
37.5°	4654.2	4651.4	4468.5	4264.6	4076.1	4003.1	3949.3	3715.4	3603.9	3492.3
40°	4808.8	4820.7	4664.4	4439.6	4256.7	4203.5	4200.1	3943.6	3832.6	3724.5
42.5°	4854.1	4875.0	4761.8	4577.2	4411.3	4353.5	4442.4	4190.5	4098.7	3993.4
45°	4772.5	4792.9	4741.4	4613.4	4516.6	4479.2	4650.8	4446.4	4383.0	4278.8
47.5°	4534.7	4560.2	4572.7	4545.5	4544.3	4582.3	4837.6	4715.9	4720.4	4614.0
50°	4074.4	4117.4	4231.8	4328.1	4477.0	4663.8	5019.4	5008.1	5100.9	5009.2
52.5°	3237.6	3298.7	3692.8	3956.1	4290.7	4648.5	5219.3	5476.9	5768.5	5634.3
55°	2601.7	2601.7	2922.2	3414.8	3927.2	4547.7	5306.5	5781.5	6223.1	6191.4
57.5°	2121.0	2146.5	2350.9	2786.3	3401.2	4307.7	5360.2	5972.9	6589.5	6566.3
60°	1309.1	1364.0	1750.1	2179.9	2802.7	3880.2	5326.3	6166.5	7033.9	7052.6
62.5°	737.2	757.6	929.7	1568.4	2179.3	3305.5	5066.4	6274.7	7602.4	7681.7
65°	509.0	519.2	585.5	976.1	1510.6	2631.7	4558.5	6207.3	8172.0	8332.2
67.5°	369.7	374.8	416.2	596.2	896.3	1908.1	3762.4	5867.6	8473.8	8741.6
70°	284.2	287.6	317.6	391.8	529.4	1177.7	2732.5	5192.1	8255.2	8575.1
72.5°	231.0	234.4	257.6	289.9	351.0	696.4	1656.1	4216.5	7290.4	7635.8
75°	194.8	199.3	220.3	241.2	275.2	447.3	776.8	2936.3	5482.5	5709.0
77.5°	108.1	99.7	178.9	199.9	232.1	283.1	363.5	1728.1	3070.5	3133.4
80°	67.4	69.6	142.1	160.8	178.4	142.7	166.5	665.3	1064.5	1011.2
82.5°	4.0	9.1	109.3	116.1	122.3	61.1	62.8	225.9	256.5	235.5
85°	0.0	0.0	49.8	40.2	42.5	17.6	18.1	52.7	34.5	37.4
87.5°	0.0	0.0	0.0	1.1	0.0	1.7	3.4	4.5	1.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946019
 CATALOG NUMBER: GALN-SB1D-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1051.4	0°	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4
1105.2	2.5°	1065.6	1026.0	945.6	866.9	802.9	743.4	701.0	660.8	640.4	639.2
1176.6	5°	1097.9	1014.6	853.8	711.7	597.3	505.6	446.2	403.7	382.2	374.8
1264.3	7.5°	1143.2	1018.0	773.4	575.8	441.1	362.4	328.4	314.8	310.3	305.2
1363.4	10°	1200.4	1026.0	701.5	463.7	347.6	308.0	294.4	288.8	285.4	282.0
1475.0	12.5°	1264.3	1033.3	630.2	385.0	305.7	285.4	275.7	268.9	264.4	260.5
1589.3	15°	1326.6	1037.9	556.0	330.1	284.2	267.8	257.6	250.3	244.0	239.5
1701.4	17.5°	1388.3	1044.1	486.4	297.3	266.7	250.3	240.1	231.0	225.9	220.8
1819.2	20°	1456.8	1042.9	420.7	274.0	249.1	232.7	222.0	213.5	208.4	202.7
1943.8	22.5°	1520.3	1037.3	362.9	254.2	231.0	215.2	203.3	194.8	189.7	185.1
2071.2	25°	1593.3	1032.8	314.8	236.1	214.0	198.2	185.1	177.2	171.6	167.6
2199.1	27.5°	1663.5	1026.0	279.7	219.7	197.6	182.3	169.9	160.8	155.7	152.9
2331.1	30°	1732.6	1024.3	266.7	203.8	182.9	167.6	155.1	146.6	142.7	141.6
2476.0	32.5°	1815.8	1028.8	272.3	198.2	169.3	154.0	142.1	135.9	131.9	131.9
2637.4	35°	1904.7	1027.7	280.8	203.3	160.2	140.4	131.4	127.4	123.4	123.4
2816.3	37.5°	2016.2	1029.4	287.6	211.8	156.8	129.1	124.0	118.9	116.6	116.6
3012.2	40°	2182.7	1085.4	284.2	219.1	155.7	121.2	111.0	109.3	107.6	107.6
3233.6	42.5°	2386.5	1207.1	288.8	219.7	155.1	115.5	101.9	105.3	101.4	100.8
3483.3	45°	2609.6	1340.2	317.6	207.8	154.6	112.7	97.4	101.4	95.1	95.1
3772.6	47.5°	2831.0	1472.1	347.1	190.8	152.9	112.1	93.4	91.2	89.5	90.0
4149.7	50°	3136.2	1579.7	358.4	167.6	148.9	111.0	86.1	86.6	85.5	86.6
4681.4	52.5°	3468.6	1602.4	344.8	141.6	137.6	107.6	81.0	83.2	82.7	83.8
5055.6	55°	3675.8	1578.0	284.8	117.8	120.0	94.0	75.9	80.4	80.4	80.4
5421.4	57.5°	3889.8	1474.4	202.1	95.7	99.7	77.0	71.3	77.6	77.0	76.4
5861.9	60°	4043.8	1306.8	133.1	78.7	79.3	63.4	66.2	73.0	72.5	69.6
6316.0	62.5°	4158.8	1121.6	85.5	66.8	60.6	57.2	60.6	66.2	64.0	57.8
6701.0	65°	4145.7	865.2	65.7	57.2	49.8	49.8	52.7	57.8	51.0	40.8
6774.6	67.5°	3904.0	585.5	54.4	48.1	41.9	41.3	43.6	48.1	43.6	34.5
6397.5	70°	3472.0	382.8	43.6	37.4	33.4	30.6	35.1	41.3	36.8	27.7
5446.3	72.5°	2818.0	233.3	32.8	27.2	24.3	19.8	27.7	34.0	29.4	20.4
3787.3	75°	1823.2	118.9	22.6	17.6	13.0	11.9	20.4	25.5	20.4	12.5
1680.5	77.5°	697.6	49.8	12.5	7.9	6.8	5.7	11.3	15.3	8.5	2.8
325.6	80°	134.2	20.9	6.2	4.0	3.4	2.3	1.7	1.1	0.0	0.0
57.8	82.5°	23.2	6.8	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
11.3	85°	7.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	2.8	0.0	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

<u>180°</u>
1051.4
638.1
373.7
304.1
280.8
259.3
238.9
220.3
202.1
184.6
167.0
152.9
141.0
131.9
123.4
116.6
107.6
100.2
95.1
90.0
86.6
83.8
80.4
76.4
69.6
56.6
39.6
33.4
26.6
19.3
10.8
2.3
0.0
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0.0
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