

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: P938951

Luminaire Tested: **GALN-SB1B-827-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

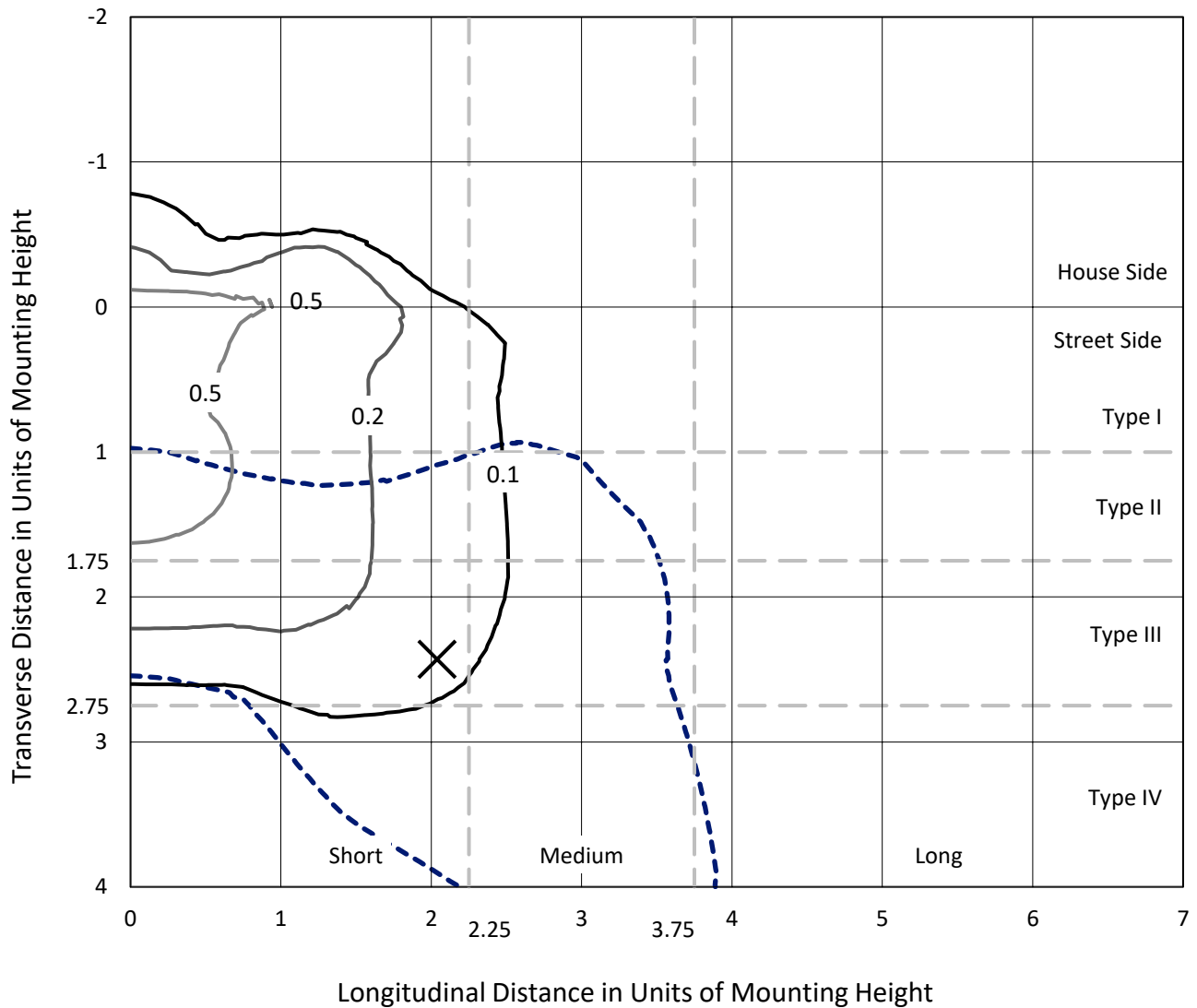
Lumens per Lamp: N/A  
Luminaire Lumens: 3419 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

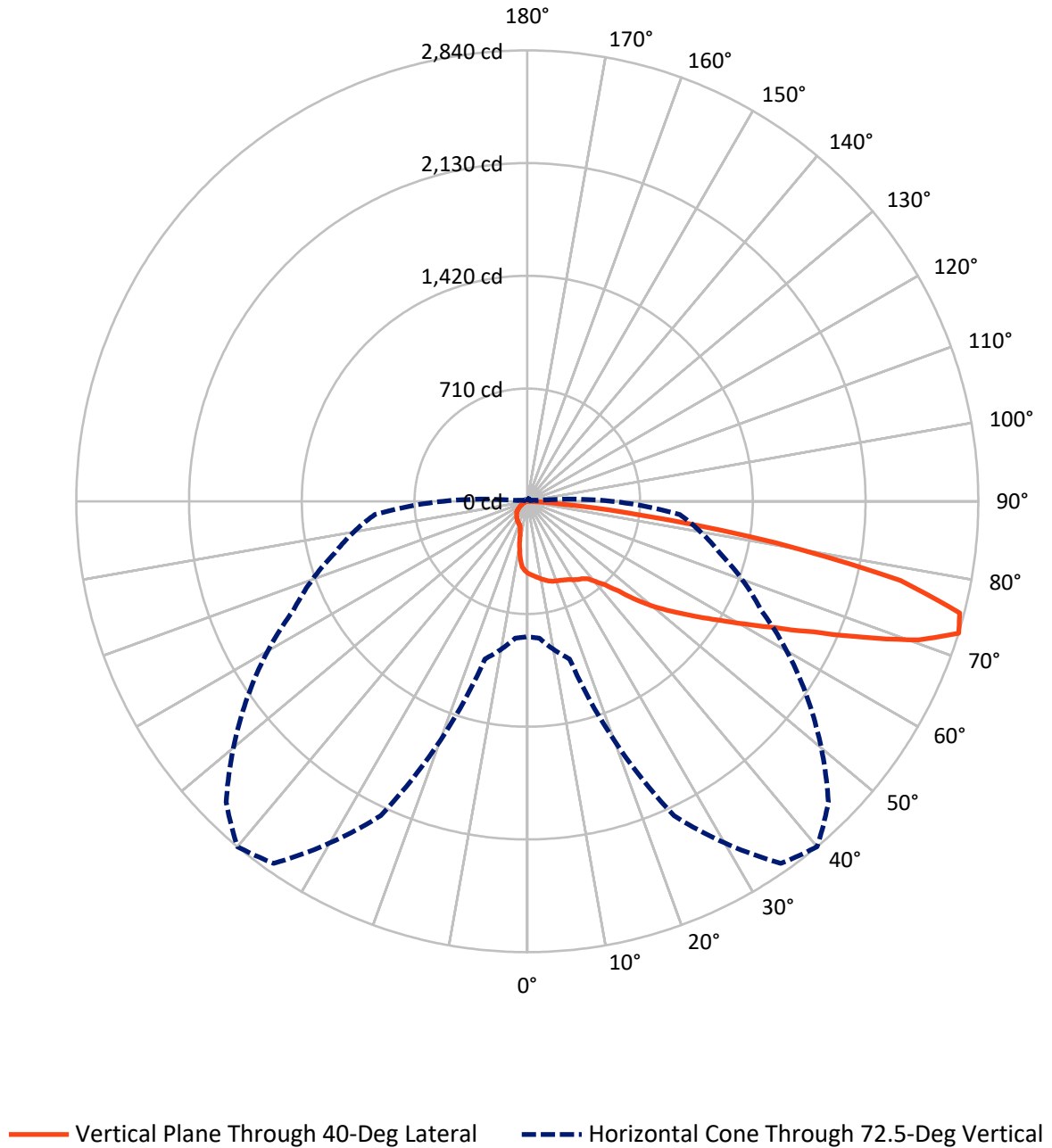
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	441.5	0.0	441.5
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2977.5	0.0	2977.5
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	3419.0	0.0	3419.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	1.2
10°-20°	112.3	3.3
20°-30°	181.7	5.3
30°-40°	268.2	7.8
40°-50°	451.4	13.2
50°-60°	700.9	20.5
60°-70°	877.0	25.7
70°-80°	718.0	21.0
80°-90°	68.1	2.0
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°	3419.0	100.0
0°-180°	3419.0	100.0

**Coefficient of Utilization**



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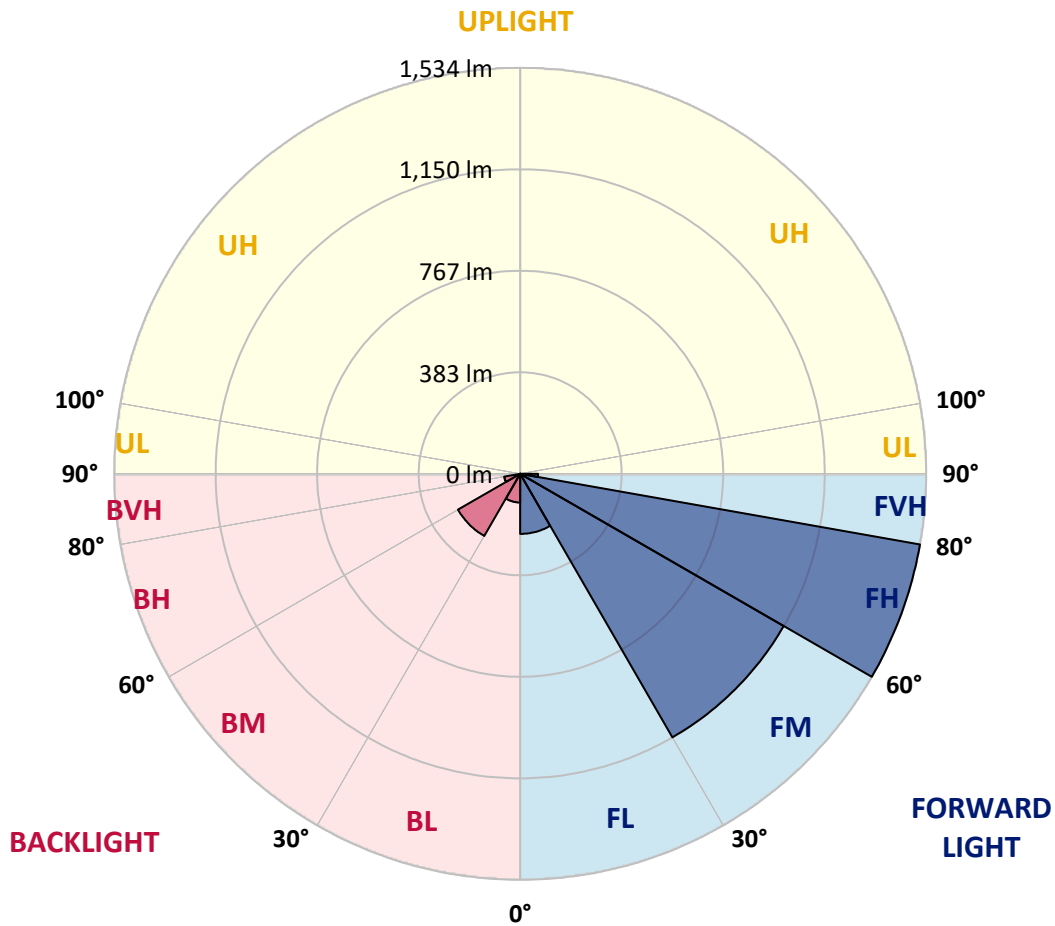
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.9	6.6			
FM (30°-60°)	1149.4	33.6			
FH (60°-80°)	1533.6	44.9			G1/1800
FVH (80°-90°)	67.6	2.0			G1/100
BL (0°-30°)	108.4	3.2	B0/110		
BM (30°-60°)	271.1	7.9	B1/1000		
BH (60°-80°)	61.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7
2.5°	466.4	468.2	467.1	465.1	464.5	463.5	462.2	461.7	459.9	458.4
5°	479.5	481.3	480.0	477.2	475.9	474.6	472.8	471.2	467.6	464.3
7.5°	493.9	495.5	493.9	489.8	487.7	486.2	483.6	481.3	477.2	472.3
10°	509.9	511.2	508.8	503.4	500.1	497.8	495.5	492.9	489.0	483.6
12.5°	524.8	526.4	522.7	516.3	512.4	510.1	507.6	505.5	501.6	496.5
15°	538.5	540.8	534.6	527.6	523.3	521.5	518.9	517.6	515.0	511.4
17.5°	548.8	550.3	543.9	535.6	530.7	529.4	527.6	528.4	527.9	526.1
20°	557.5	558.5	550.0	540.0	534.6	534.8	534.3	536.9	537.9	537.9
22.5°	568.3	568.6	557.8	545.1	538.7	540.5	541.3	544.1	546.2	548.2
25°	582.5	582.0	569.1	551.8	546.2	548.8	550.6	551.6	553.9	557.3
27.5°	603.6	602.1	585.6	562.7	556.0	558.3	561.6	561.1	560.1	562.7
30°	630.4	628.3	606.4	577.9	571.7	573.7	574.8	570.1	562.7	565.0
32.5°	672.9	669.3	638.9	594.8	585.3	587.6	586.4	576.8	565.8	568.1
35°	746.8	738.0	695.0	630.4	600.8	598.2	595.1	585.8	572.2	569.9
37.5°	903.9	888.4	815.0	699.7	635.8	619.1	609.5	600.3	579.1	569.9
40°	1081.0	1065.3	980.6	815.5	694.0	665.7	643.0	617.3	586.4	573.2
42.5°	1265.9	1248.7	1161.6	959.2	777.2	719.0	676.7	630.9	598.2	583.5
45°	1472.4	1450.8	1337.0	1109.1	897.9	807.6	731.1	659.0	618.8	601.8
47.5°	1690.3	1662.2	1511.8	1254.6	1028.0	930.1	830.5	709.2	649.2	629.1
50°	1883.4	1855.6	1692.4	1406.8	1149.5	1046.8	943.8	778.7	694.8	667.7
52.5°	2022.2	2001.1	1856.7	1563.9	1276.0	1156.2	1046.5	859.6	752.4	717.2
55°	2115.2	2095.9	1973.0	1712.7	1423.0	1276.7	1147.7	947.4	822.0	776.4
57.5°	2171.6	2160.5	2057.3	1845.6	1568.8	1408.6	1263.6	1043.9	903.9	846.2
60°	2191.7	2182.7	2109.5	1972.3	1744.9	1567.0	1399.8	1152.9	1003.3	925.5
62.5°	2138.1	2139.9	2147.1	2122.4	1930.6	1752.4	1563.1	1283.7	1113.5	1015.4
65°	1886.0	1900.9	2037.9	2288.8	2176.5	1984.6	1770.9	1443.3	1239.7	1117.6
67.5°	1561.5	1583.2	1753.6	2386.1	2438.6	2286.2	2060.3	1646.8	1390.0	1221.6
70°	1195.4	1218.5	1425.1	2365.7	2684.0	2615.8	2418.3	1905.6	1545.8	1293.7
72.5°	853.1	865.0	1027.7	2184.7	2784.7	2840.3	2682.0	2150.7	1625.4	1253.8
75°	599.5	597.4	705.3	1759.3	2627.9	2813.0	2589.5	2018.1	1470.9	996.1
77.5°	261.1	261.6	352.3	1068.4	2097.4	2402.6	2152.5	1264.1	1025.4	527.9
80°	67.7	69.8	129.3	425.4	1262.8	1585.7	1312.8	555.7	473.8	128.8
82.5°	23.9	25.5	59.5	133.6	465.8	727.2	584.5	177.7	123.6	36.8
85°	7.0	8.2	31.9	40.9	96.3	205.5	141.9	34.5	30.4	19.1
87.5°	0.0	1.0	6.4	5.7	5.7	3.9	7.2	3.9	4.9	2.3
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°
452.7	0°	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7
456.6	2.5°	455.0	453.2	449.4	445.2	441.4	437.8	436.7	432.9	431.1	431.3
460.2	5°	457.3	454.0	446.5	437.5	428.2	417.7	408.9	396.6	386.0	384.7
467.1	7.5°	463.5	458.1	446.0	428.5	405.3	376.2	349.2	322.4	307.2	299.0
477.4	10°	473.0	465.8	447.3	413.8	364.6	312.6	271.7	237.9	220.7	212.7
490.0	12.5°	484.4	476.4	449.4	388.8	312.1	243.9	199.6	179.0	175.4	174.8
505.5	15°	500.3	491.6	451.7	355.1	255.2	185.7	165.3	165.6	168.4	170.0
522.2	17.5°	518.1	509.4	448.3	313.9	199.1	158.6	158.1	160.4	164.5	166.1
537.7	20°	536.1	527.9	436.5	265.5	160.9	151.2	153.2	155.8	159.9	162.0
552.9	22.5°	554.7	547.5	417.7	214.0	145.2	145.8	148.3	150.9	155.5	157.9
567.8	25°	574.5	568.3	392.7	171.5	138.5	140.1	143.4	146.5	151.4	154.2
580.4	27.5°	594.6	590.0	364.4	143.2	132.4	134.2	138.0	142.1	147.0	150.4
591.5	30°	616.5	613.9	341.7	132.6	126.4	128.0	132.4	137.0	142.4	146.5
602.6	32.5°	638.9	638.4	330.6	140.3	121.0	122.1	125.9	130.6	137.3	142.4
611.8	35°	661.0	662.1	324.2	162.2	119.2	116.4	119.0	123.1	131.1	137.5
622.4	37.5°	689.4	691.9	323.9	185.9	123.6	110.7	112.5	115.4	122.3	129.8
638.9	40°	731.6	745.2	340.4	206.3	131.3	105.6	106.1	106.6	110.2	116.4
660.8	42.5°	787.7	827.6	399.9	220.2	134.4	100.9	99.1	96.3	95.8	99.1
690.6	45°	857.5	927.3	504.5	227.9	131.3	95.8	90.9	83.4	80.6	82.9
731.1	47.5°	939.7	1036.5	628.3	229.7	126.2	89.4	80.6	70.8	68.5	69.3
785.4	50°	1019.7	1118.4	737.3	214.8	117.7	81.1	69.3	61.0	59.5	59.7
849.5	52.5°	1090.6	1146.4	768.2	179.5	106.4	71.1	59.5	53.8	52.8	52.8
920.3	55°	1137.4	1116.1	685.0	137.3	92.2	60.8	51.0	48.2	47.6	47.4
999.4	57.5°	1147.2	1017.2	517.3	99.1	72.1	51.2	45.3	43.8	42.7	41.7
1080.5	60°	1112.2	852.4	329.4	69.3	54.1	43.8	40.2	39.1	37.1	35.0
1156.7	62.5°	1036.5	643.8	182.3	48.2	43.5	37.3	35.5	34.2	30.4	27.0
1217.3	65°	934.8	428.0	80.6	37.6	35.5	31.4	30.4	28.6	23.9	20.1
1240.2	67.5°	832.5	246.4	36.3	30.1	28.6	25.8	25.0	23.7	20.3	16.7
1181.7	70°	715.9	124.9	25.0	23.9	22.1	19.6	20.3	20.1	16.7	13.6
963.9	72.5°	533.0	62.1	18.8	18.0	16.0	13.9	16.7	16.5	13.1	10.3
594.3	75°	301.8	30.6	13.6	12.6	9.5	10.3	13.4	12.6	9.0	6.7
250.8	77.5°	119.7	15.7	9.0	7.7	5.7	7.0	9.8	8.5	4.6	2.8
47.9	80°	27.6	7.7	4.6	3.3	2.6	4.1	5.2	3.1	1.3	0.3
12.9	82.5°	7.7	3.3	1.5	1.3	1.3	1.5	1.3	0.5	0.0	0.0
3.3	85°	2.6	1.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.0	87.5°	1.0	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>
452.7
431.1
383.9
298.5
211.2
174.6
169.7
165.8
162.0
157.9
154.2
150.6
147.0
142.9
138.5
131.1
118.5
100.9
82.9
69.0
59.7
52.5
46.9
41.2
34.2
26.0
19.3
16.2
13.1
9.8
6.2
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0.0
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