

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: P939134

Luminaire Tested: **GALN-SB1C-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

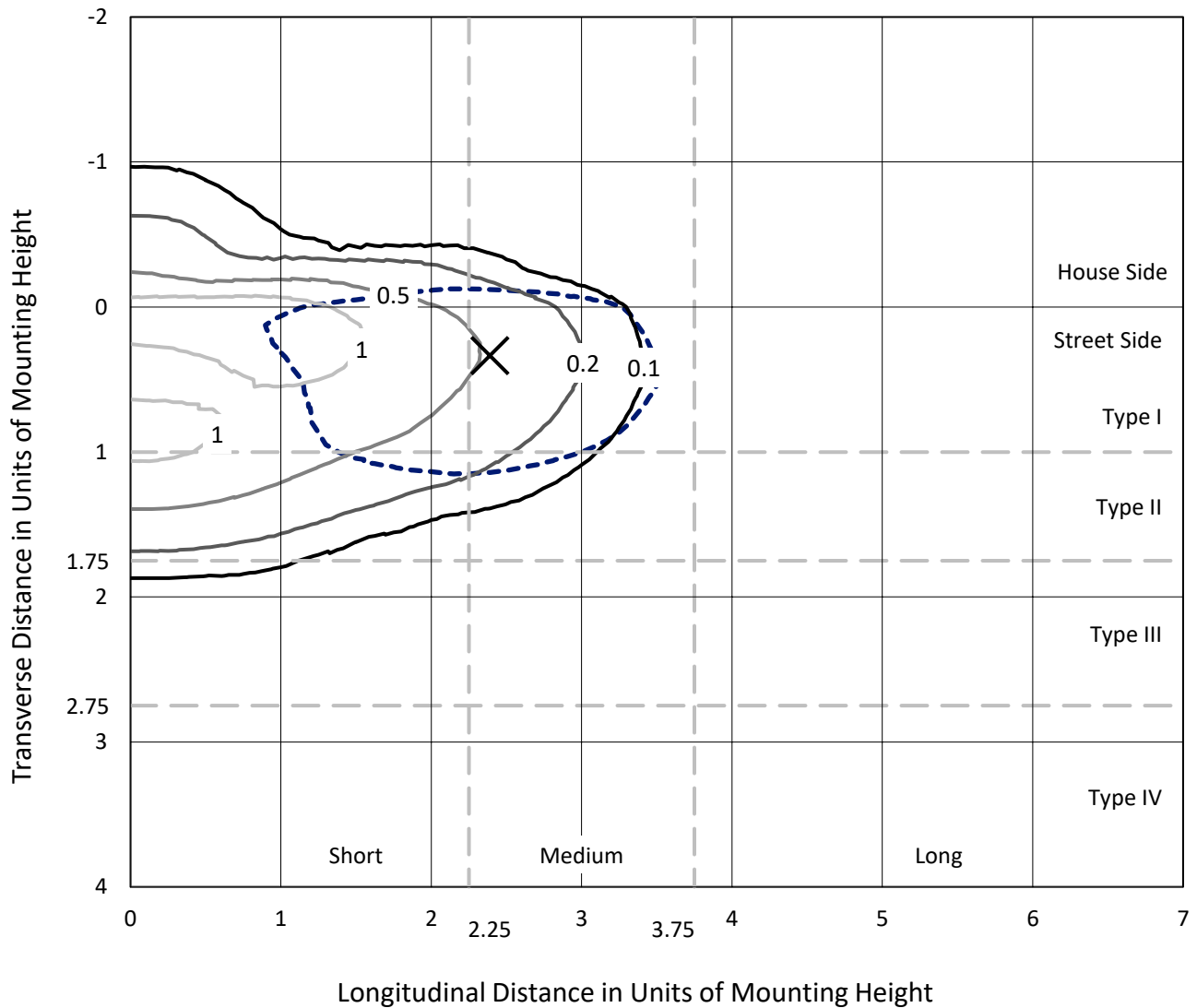
Lumens per Lamp: N/A  
Luminaire Lumens: 4916 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

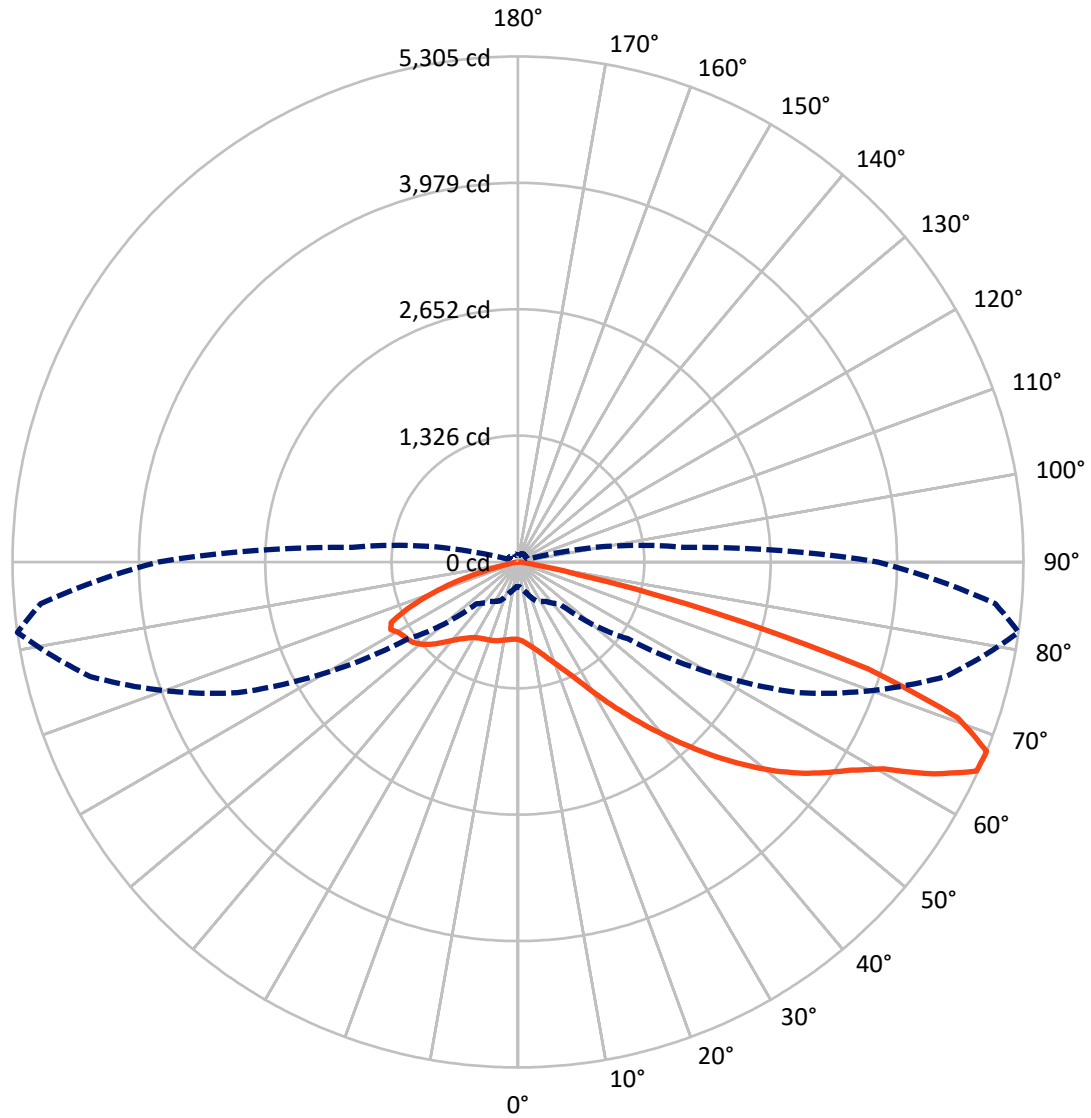
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	890.5	0.0	890.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4025.5	0.0	4025.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4916.0	0.0	4916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	1.5
10°-20°	188.5	3.8
20°-30°	302.0	6.1
30°-40°	534.0	10.9
40°-50°	935.7	19.0
50°-60°	1247.9	25.4
60°-70°	1161.7	23.6
70°-80°	445.9	9.1
80°-90°	27.7	0.6
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°	4916.0	100.0
0°-180°	4916.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939134

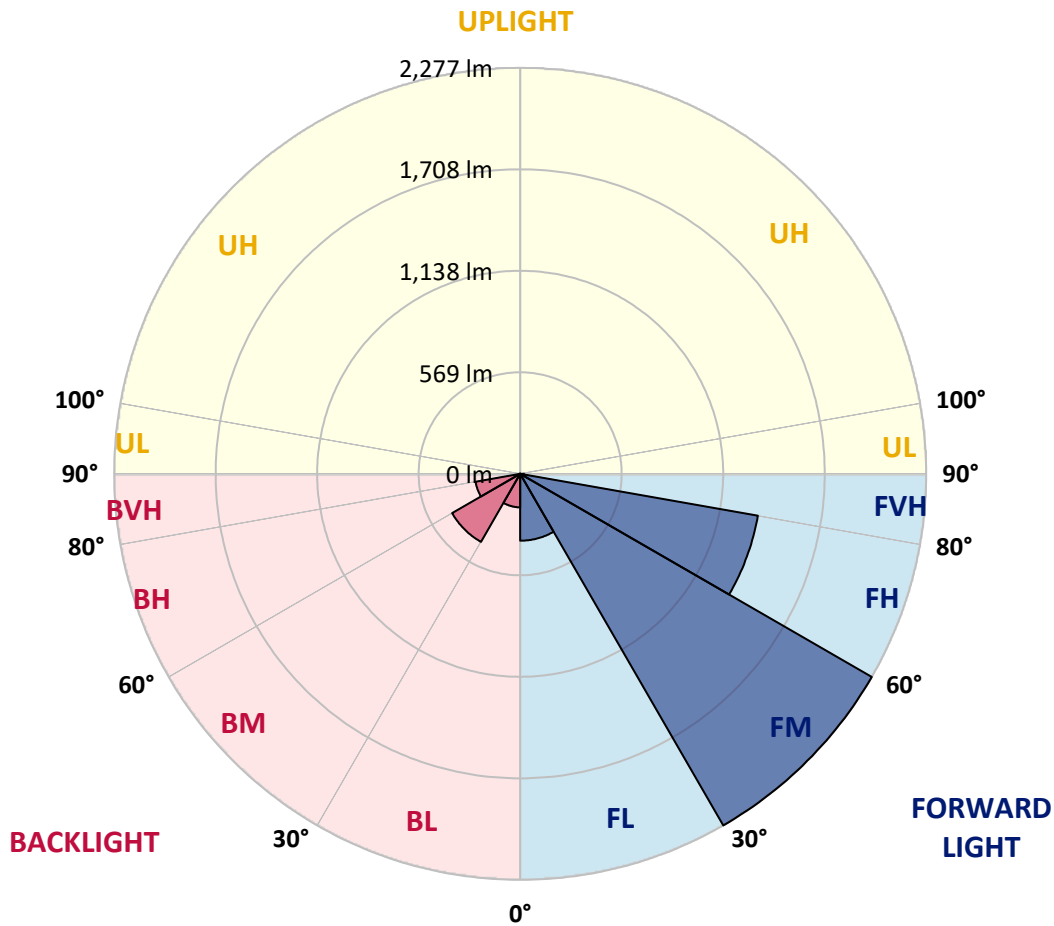
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.0	7.6			
FM (30°-60°)	2276.9	46.3			
FH (60°-80°)	1353.4	27.5			G1/1800
FVH (80°-90°)	20.1	0.4			G1/100
BL (0°-30°)	188.1	3.8	B1/500		
BM (30°-60°)	440.7	9.0	B1/1000		
BH (60°-80°)	254.2	5.2	B1/500		G1/500
BVH (80°-90°)	7.6	0.2			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 II Medium



REPORT NUMBER: P939134  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
2.5°	860.8	865.7	862.9	861.5	859.0	855.5	852.6	843.8	834.6	828.6
5°	878.1	883.1	882.7	884.1	885.9	887.0	886.3	876.4	863.3	853.0
7.5°	863.3	868.9	873.5	880.6	893.0	906.1	912.5	910.3	896.9	882.7
10°	821.1	827.2	838.1	854.8	881.0	909.3	933.0	944.0	935.5	919.9
12.5°	744.0	750.0	771.6	807.7	851.6	900.8	946.1	975.5	977.6	962.0
15°	657.3	663.3	686.3	731.6	798.5	877.4	953.2	1008.7	1027.5	1014.0
17.5°	603.5	608.8	626.1	662.6	732.3	830.7	950.7	1044.1	1086.9	1076.3
20°	587.2	591.8	599.9	625.4	683.5	782.2	934.4	1077.4	1151.0	1145.0
22.5°	604.5	608.8	611.3	622.6	659.0	750.4	913.9	1111.4	1225.3	1226.0
25°	644.5	648.8	645.9	653.0	668.9	740.4	906.1	1151.4	1318.8	1326.6
27.5°	710.4	710.7	704.0	703.6	706.1	755.3	914.2	1194.2	1436.6	1451.2
30°	842.4	837.1	811.2	783.3	770.5	799.9	936.9	1244.8	1575.7	1601.6
32.5°	1045.9	1038.1	990.7	923.8	856.5	871.8	977.6	1302.5	1727.2	1773.9
35°	1266.7	1264.6	1215.1	1115.6	998.1	974.0	1043.8	1378.2	1892.5	1966.8
37.5°	1472.0	1471.0	1442.7	1325.5	1182.5	1116.7	1149.9	1477.3	2069.5	2177.1
40°	1659.6	1662.8	1634.5	1529.7	1385.7	1299.7	1294.4	1599.8	2266.3	2406.1
42.5°	1821.7	1825.3	1796.6	1719.1	1586.4	1502.1	1471.7	1749.9	2458.5	2652.1
45°	1931.8	1953.7	1949.5	1887.6	1792.3	1704.9	1684.8	1938.2	2677.6	2912.9
47.5°	1962.9	1983.1	2015.0	2023.5	1965.4	1879.4	1903.5	2165.0	2899.1	3174.1
50°	1886.1	1904.9	1971.1	2059.2	2099.6	2073.0	2116.2	2408.2	3126.0	3434.6
52.5°	1734.7	1753.8	1837.3	1976.8	2141.3	2224.9	2329.6	2647.8	3345.8	3681.3
55°	1515.6	1535.7	1643.0	1800.8	2061.7	2287.5	2507.7	2887.1	3547.2	3903.2
57.5°	1217.6	1232.4	1343.9	1564.8	1861.4	2225.2	2639.0	3148.3	3736.9	4121.3
60°	793.5	806.6	936.2	1182.5	1529.4	2017.1	2665.2	3439.6	3988.9	4404.8
62.5°	527.7	536.6	613.4	794.2	1077.0	1617.5	2511.9	3672.1	4358.4	4898.2
65°	362.1	370.9	447.7	573.7	695.8	1070.0	2071.3	3641.3	4693.2	5290.0
67.5°	258.4	265.8	330.9	449.9	503.7	621.5	1404.1	3247.7	4645.1	5304.8
70°	185.1	189.4	243.2	350.4	400.3	373.4	780.8	2483.9	4067.1	4898.5
72.5°	129.5	131.0	168.8	266.9	322.4	272.5	371.6	1656.1	3076.1	3844.8
75°	87.8	89.5	113.6	195.7	258.7	208.1	196.8	888.0	1805.8	2128.2
77.5°	53.8	54.5	73.3	133.8	193.6	158.6	126.7	376.2	698.7	685.9
80°	30.4	30.4	46.7	83.2	132.0	102.3	88.8	160.0	221.2	194.3
82.5°	17.0	17.3	34.0	51.7	87.4	60.5	48.8	74.0	95.6	84.6
85°	7.1	7.8	20.9	24.4	41.8	30.1	19.8	31.1	35.4	31.5
87.5°	0.7	1.1	6.4	4.6	5.0	6.0	2.8	6.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939134  
 CATALOG NUMBER: GALN-SB1C-830-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
814.4	0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
826.4	2.5°	819.7	814.4	801.0	785.4	764.9	755.0	741.5	732.3	724.5	725.2
847.0	5°	835.7	822.2	792.1	754.6	707.9	674.6	639.2	614.8	595.0	590.7
875.3	7.5°	857.6	836.4	783.6	716.0	637.1	577.3	523.8	489.5	465.1	457.3
909.6	10°	885.9	855.1	772.6	667.5	553.9	477.8	420.5	393.6	376.9	371.3
950.0	12.5°	918.8	876.7	758.1	608.4	468.3	395.0	358.5	345.1	339.8	338.0
999.5	15°	960.2	903.6	736.2	538.3	395.7	344.4	328.8	327.0	327.7	327.0
1059.0	17.5°	1009.4	933.0	700.4	466.1	346.9	318.5	312.9	314.3	316.1	315.7
1125.5	20°	1063.2	962.0	654.8	402.1	313.6	300.1	297.0	298.4	299.8	299.1
1202.3	22.5°	1124.5	993.2	604.2	352.2	291.3	283.2	279.6	280.0	280.0	278.6
1299.7	25°	1197.7	1027.5	551.1	316.8	274.3	267.9	263.7	262.3	260.1	255.9
1417.9	27.5°	1285.2	1063.9	500.1	292.0	260.9	254.8	249.9	246.3	241.0	234.0
1559.8	30°	1383.5	1108.2	456.9	276.4	250.2	244.2	238.6	233.2	225.5	216.6
1723.0	32.5°	1499.3	1155.6	425.4	266.2	240.7	234.3	227.6	221.2	212.7	203.9
1906.3	35°	1637.3	1213.0	407.0	259.1	233.2	224.8	217.3	210.2	203.9	196.1
2105.6	37.5°	1787.0	1273.8	401.4	255.5	228.3	215.2	206.7	201.7	201.0	196.4
2321.1	40°	1950.9	1346.0	405.6	253.4	223.0	206.0	196.8	195.7	197.5	189.4
2551.6	42.5°	2124.3	1431.7	412.7	250.9	215.5	196.8	187.9	187.9	186.5	175.2
2795.1	45°	2311.9	1530.4	419.8	244.9	206.7	187.6	180.9	178.4	172.4	161.4
3040.0	47.5°	2500.9	1631.0	425.1	234.0	196.1	179.8	173.8	168.1	159.3	149.4
3280.3	50°	2680.4	1721.2	419.4	217.7	184.0	172.4	166.0	158.2	148.7	141.9
3507.9	52.5°	2840.7	1799.4	395.4	198.6	171.3	164.6	158.9	150.8	143.0	135.9
3713.2	55°	2980.2	1862.8	352.9	180.5	160.0	157.9	152.2	141.9	131.3	125.3
3916.7	57.5°	3114.0	1910.9	299.8	165.6	149.7	150.4	141.9	132.7	122.8	116.4
4191.0	60°	3292.0	1975.3	246.0	151.8	138.7	140.9	131.7	124.9	112.6	104.4
4661.4	62.5°	3576.6	2075.5	195.4	134.9	126.0	126.7	122.8	114.7	99.8	90.3
5010.0	65°	3802.4	2038.7	154.0	116.4	111.5	112.6	112.6	103.7	87.8	76.8
5028.8	67.5°	3776.9	1745.6	122.8	98.4	97.7	98.4	100.9	93.4	77.9	69.0
4645.8	70°	3479.2	1388.5	98.4	81.8	84.9	83.2	90.3	85.3	70.1	61.2
3601.7	72.5°	2838.9	1000.2	75.0	67.6	65.1	68.0	81.4	76.8	58.4	48.5
1907.7	75°	1658.9	533.7	55.9	53.4	47.1	56.6	72.2	65.5	44.6	35.7
584.7	77.5°	540.1	186.2	41.1	39.3	35.0	45.7	61.6	55.2	36.5	28.3
171.3	80°	144.8	56.3	28.0	25.8	22.7	34.0	48.8	43.9	26.2	18.4
73.6	82.5°	58.0	23.7	16.3	14.5	12.4	23.4	38.6	35.4	19.5	11.7
23.0	85°	18.8	7.8	6.0	4.6	5.7	14.5	23.0	24.1	13.8	6.0
3.5	87.5°	2.5	1.1	1.1	1.4	1.1	2.5	7.1	6.7	3.9	0.7
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>
814.4
718.1
581.2
449.5
367.0
337.0
326.7
315.0
298.7
277.8
255.2
233.2
215.9
204.2
195.4
196.1
189.7
175.2
161.0
149.0
140.9
135.2
124.6
115.7
103.4
89.5
75.7
67.6
60.2
47.4
34.7
27.3
18.1
11.7
4.6
0.0
0.0

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