

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: STREETWORKS

Report Number: P851035

Luminaire Tested: **GLAN-SB8D-827-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47908 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

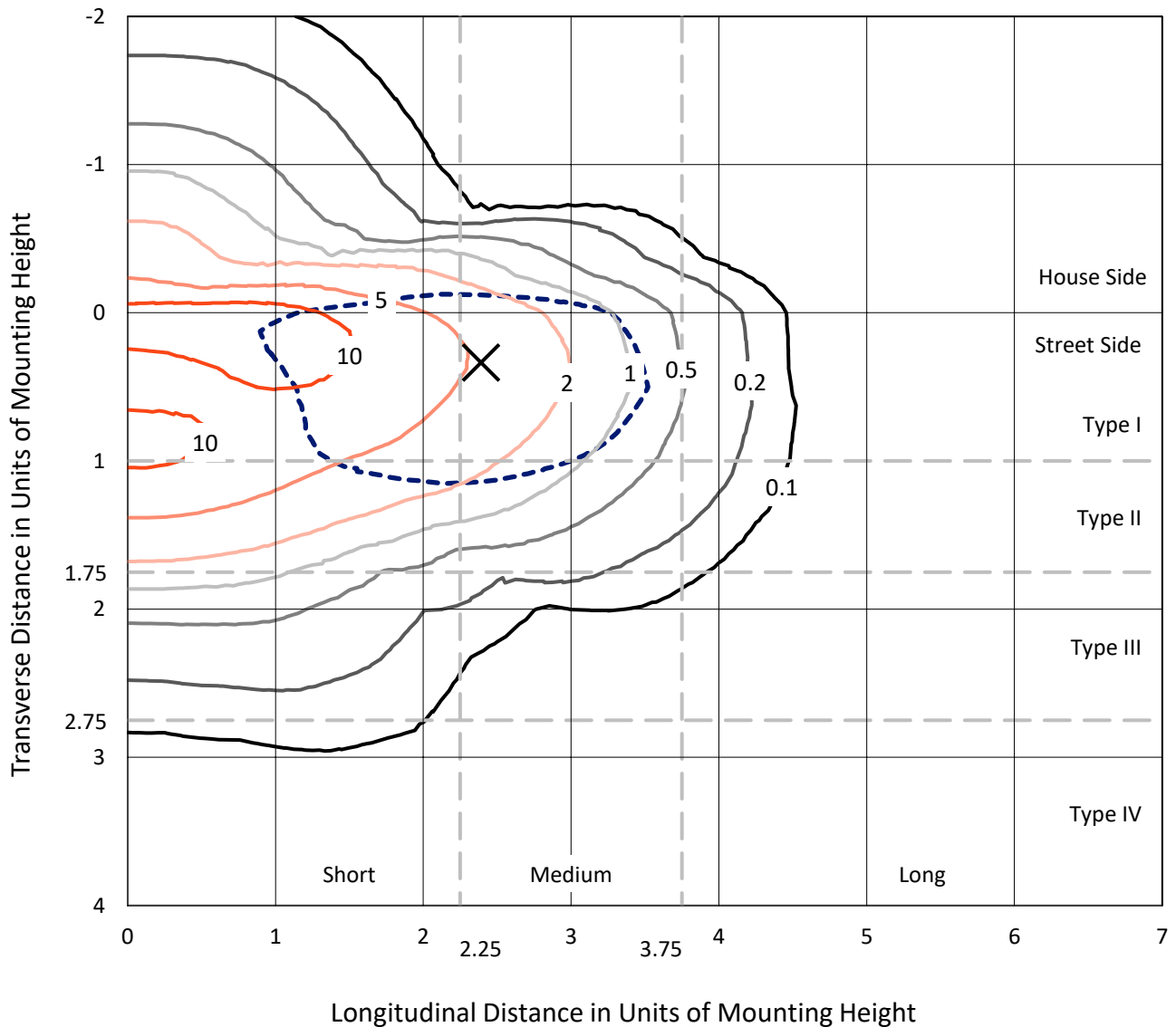
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

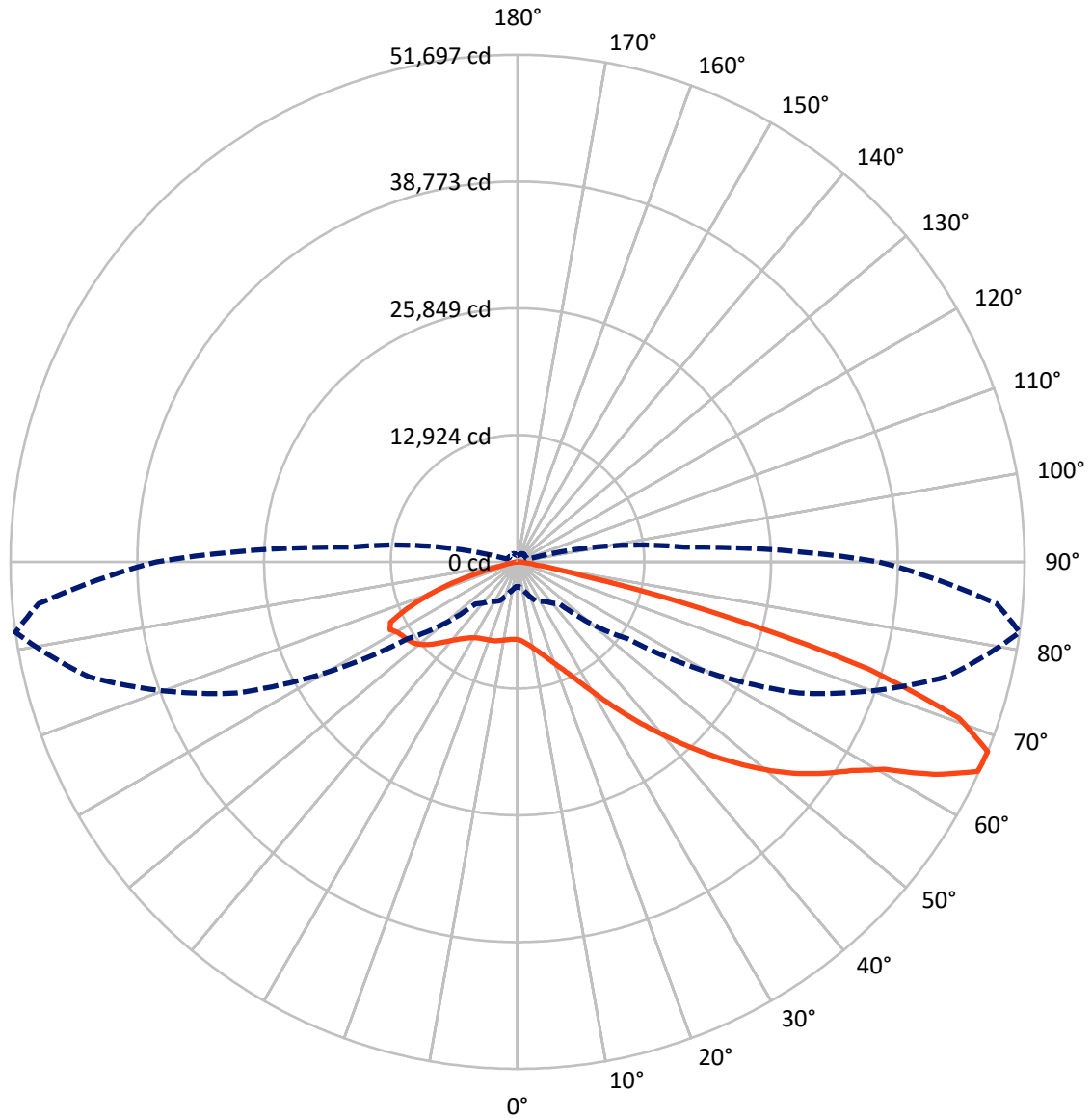
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	8678.1	0.0	8678.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	39229.9	0.0	39229.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	47908.0	0.0	47908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.1	1.5
10°-20°	1837.5	3.8
20°-30°	2943.1	6.1
30°-40°	5204.2	10.9
40°-50°	9118.3	19.0
50°-60°	12161.3	25.4
60°-70°	11321.5	23.6
70°-80°	4345.2	9.1
80°-90°	269.9	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°	47908.0	100.0
0°-180°	47908.0	100.0

**Coefficient of Utilization**

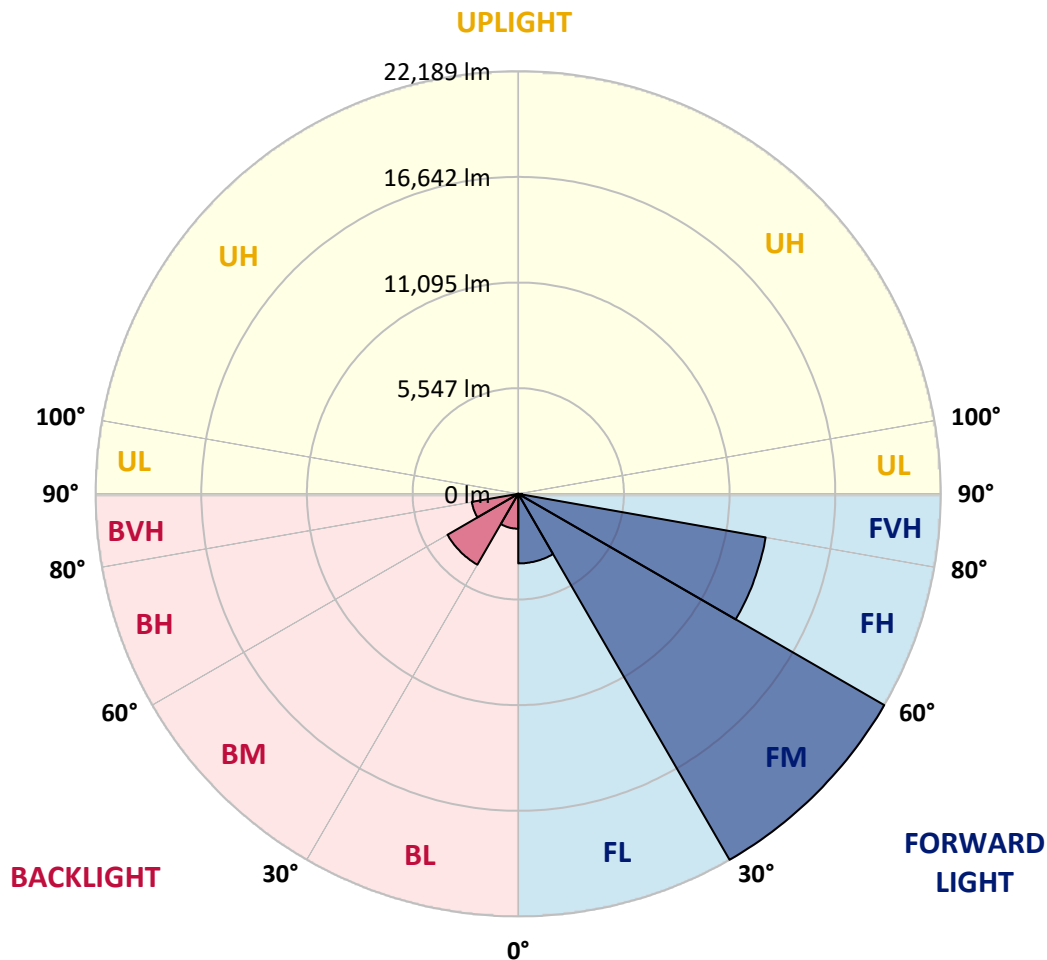


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3654.8	7.6			
FM (30°-60°)	22189.0	46.3			
FH (60°-80°)	13189.8	27.5			G5
FVH (80°-90°)	196.2	0.4			G2/225
BL (0°-30°)	1832.8	3.8	B3/2500		
BM (30°-60°)	4294.8	9.0	B3/5000		
BH (60°-80°)	2476.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	73.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7
2.5°	8388.6	8436.9	8409.3	8395.5	8371.3	8336.8	8309.3	8223.0	8133.3	8074.7
5°	8557.6	8605.9	8602.4	8616.2	8633.5	8643.8	8636.9	8540.4	8412.7	8312.7
7.5°	8412.7	8467.9	8512.8	8581.7	8702.5	8830.1	8892.2	8871.5	8740.4	8602.4
10°	8002.3	8060.9	8167.8	8329.9	8585.2	8861.1	9092.2	9199.2	9116.4	8964.6
12.5°	7250.3	7309.0	7519.4	7871.2	8298.9	8778.4	9219.9	9506.1	9526.8	9375.1
15°	6405.3	6463.9	6688.1	7129.6	7781.5	8550.7	9288.8	9830.4	10013.2	9882.1
17.5°	5881.0	5932.7	6101.7	6457.0	7136.5	8095.4	9264.7	10175.3	10592.7	10489.2
20°	5722.3	5767.2	5846.5	6094.8	6660.5	7622.9	9106.0	10499.5	11217.0	11158.3
22.5°	5891.3	5932.7	5956.9	6067.2	6422.5	7312.4	8906.0	10830.7	11941.3	11948.2
25°	6281.1	6322.5	6294.9	6363.9	6519.1	7215.8	8830.1	11220.4	12851.9	12927.8
27.5°	6922.7	6926.1	6860.6	6857.1	6881.3	7360.7	8909.4	11637.8	14000.5	14141.9
30°	8209.2	8157.5	7905.7	7633.2	7509.0	7795.3	9130.2	12131.0	15356.1	15607.9
32.5°	10192.5	10116.7	9654.5	9002.6	8347.2	8495.5	9526.8	12693.3	16832.4	17287.7
35°	12344.9	12324.2	11841.3	10872.0	9726.9	9492.3	10171.9	13431.4	18443.2	19167.5
37.5°	14345.4	14335.1	14059.2	12917.5	11524.0	10882.4	11206.6	14397.2	20167.8	21216.4
40°	16173.6	16204.6	15928.7	14907.7	13503.8	12665.7	12613.9	15590.6	22085.6	23448.0
42.5°	17753.3	17787.8	17508.4	16753.0	15459.6	14638.6	14342.0	17053.1	23958.5	25845.3
45°	18826.0	19039.9	18998.5	18394.9	17467.0	16615.1	16418.5	18888.1	26093.6	28387.4
47.5°	19129.6	19326.2	19636.6	19719.4	19153.7	18315.5	18550.1	21099.1	28252.8	30932.9
50°	18381.1	18563.9	19208.9	20067.8	20461.0	20202.3	20623.1	23468.7	30463.8	33471.6
52.5°	16904.8	17091.1	17905.1	19264.1	20868.0	21682.0	22703.0	25803.9	32605.8	35875.7
55°	14769.7	14966.3	16011.4	17549.8	20091.9	22292.5	24438.0	28135.6	34568.4	38038.4
57.5°	11865.4	12010.3	13096.8	15249.2	18139.6	21685.5	25717.6	30681.1	36417.2	40163.1
60°	7733.2	7860.9	9123.3	11524.0	14904.2	19657.3	25972.9	33519.9	38873.1	42926.0
62.5°	5142.8	5229.1	5977.6	7740.1	10496.1	15763.1	24479.4	35786.0	42474.1	47734.2
65°	3528.6	3614.8	4363.3	5591.2	6781.2	10427.1	20185.0	35485.9	45737.1	51552.6
67.5°	2518.0	2590.4	3225.1	4384.0	4908.3	6056.9	13683.2	31650.4	45268.0	51697.4
70°	1804.0	1845.4	2369.6	3414.8	3901.1	3639.0	7609.1	24206.9	39635.4	47737.7
72.5°	1262.4	1276.2	1645.3	2600.7	3142.3	2655.9	3621.7	16139.1	29977.5	37469.3
75°	855.4	872.7	1107.2	1907.4	2521.4	2028.2	1917.8	8654.2	17598.1	20740.4
77.5°	524.3	531.2	714.0	1303.8	1886.7	1545.3	1234.8	3666.6	6808.8	6684.7
80°	296.6	296.6	455.3	810.6	1286.6	996.8	865.8	1559.1	2155.8	1893.6
82.5°	165.6	169.0	331.1	503.6	852.0	589.8	476.0	720.9	931.3	824.4
85°	69.0	75.9	203.5	238.0	407.0	293.2	193.2	303.5	344.9	307.0
87.5°	6.9	10.3	62.1	44.8	48.3	58.6	27.6	58.6	48.3	48.3
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°
7936.7	0°	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7	7936.7
8054.0	2.5°	7988.5	7936.7	7805.7	7653.9	7453.8	7357.3	7226.2	7136.5	7060.6	7067.5
8254.1	5°	8143.7	8012.6	7719.4	7353.8	6898.5	6574.3	6229.4	5991.4	5798.2	5756.8
8530.0	7.5°	8357.5	8150.6	7636.6	6977.8	6208.7	5625.7	5104.9	4770.3	4532.3	4456.4
8864.6	10°	8633.5	8333.4	7529.7	6505.3	5398.1	4656.5	4097.7	3835.6	3673.5	3618.3
9257.8	12.5°	8954.3	8543.8	7388.3	5929.3	4563.4	3849.4	3494.1	3363.0	3311.3	3294.0
9740.7	15°	9357.8	8805.9	7174.4	5246.3	3856.3	3356.1	3204.4	3187.1	3194.0	3187.1
10320.2	17.5°	9837.3	9092.2	6826.1	4542.7	3380.3	3104.3	3049.1	3062.9	3080.2	3076.7
10968.6	20°	10361.6	9375.1	6381.1	3918.4	3056.0	2925.0	2893.9	2907.7	2921.5	2914.6
11717.1	22.5°	10958.3	9678.6	5887.9	3432.0	2838.7	2759.4	2724.9	2728.4	2728.4	2714.6
12665.7	25°	11672.3	10013.2	5370.5	3087.1	2673.2	2611.1	2569.7	2555.9	2535.2	2493.8
13817.7	27.5°	12524.2	10368.5	4873.8	2845.6	2542.1	2483.5	2435.2	2400.7	2348.9	2280.0
15200.9	30°	13483.1	10799.6	4453.0	2693.9	2438.6	2380.0	2324.8	2273.1	2197.2	2110.9
16791.0	32.5°	14611.0	11261.8	4146.0	2593.8	2345.5	2283.4	2217.9	2155.8	2073.0	1986.8
18577.7	35°	15956.3	11820.6	3966.6	2524.9	2273.1	2190.3	2117.8	2048.9	1986.8	1910.9
20519.6	37.5°	17415.3	12413.9	3911.5	2490.4	2224.8	2097.1	2014.4	1966.1	1959.2	1914.3
22620.2	40°	19012.3	13117.5	3952.8	2469.7	2173.0	2007.5	1917.8	1907.4	1924.7	1845.4
24865.7	42.5°	20702.4	13952.2	4021.8	2445.5	2100.6	1917.8	1831.6	1831.6	1817.8	1707.4
27238.8	45°	22530.5	14914.6	4090.8	2386.9	2014.4	1828.1	1762.6	1738.4	1679.8	1572.9
29625.6	47.5°	24372.4	15894.2	4142.6	2280.0	1910.9	1752.2	1693.6	1638.4	1552.2	1455.6
31967.7	50°	26121.2	16773.7	4087.4	2121.3	1793.6	1679.8	1617.7	1541.8	1448.7	1383.2
34185.6	52.5°	27683.7	17536.0	3852.8	1935.0	1669.4	1603.9	1548.7	1469.4	1393.5	1324.5
36186.1	55°	29042.7	18153.4	3438.9	1759.1	1559.1	1538.4	1483.2	1383.2	1279.7	1221.0
38169.4	57.5°	30346.5	18622.5	2921.5	1614.3	1459.0	1465.9	1383.2	1293.5	1196.9	1134.8
40842.6	60°	32081.5	19250.3	2397.2	1479.7	1352.1	1372.8	1283.1	1217.6	1096.9	1017.5
45426.7	62.5°	34854.7	20226.4	1904.0	1314.2	1227.9	1234.8	1196.9	1117.6	972.7	879.6
48824.2	65°	37055.3	19867.7	1500.4	1134.8	1086.5	1096.9	1096.9	1010.6	855.4	748.5
49007.0	67.5°	36807.0	17011.7	1196.9	958.9	952.0	958.9	983.0	910.6	758.8	672.6
45274.9	70°	33906.2	13531.4	958.9	796.8	827.8	810.6	879.6	831.3	683.0	596.7
35099.6	72.5°	27666.5	9747.6	731.2	658.8	634.7	662.3	793.3	748.5	569.1	472.5
18591.5	75°	16166.7	5201.5	545.0	520.8	458.8	551.9	703.6	638.1	434.6	348.4
5698.2	77.5°	5263.6	1814.3	400.1	382.9	341.5	445.0	600.2	538.1	355.3	275.9
1669.4	80°	1410.7	548.4	272.5	251.8	220.8	331.1	476.0	427.7	255.2	179.4
717.4	82.5°	565.7	231.1	158.7	141.4	120.7	227.7	376.0	344.9	189.7	113.8
224.2	85°	182.8	75.9	58.6	44.8	55.2	141.4	224.2	234.5	134.5	58.6
34.5	87.5°	24.1	10.3	10.3	13.8	10.3	24.1	69.0	65.5	37.9	6.9
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>
7936.7
6998.5
5663.7
4380.6
3576.9
3283.7
3183.7
3069.8
2911.2
2707.7
2486.9
2273.1
2104.0
1990.2
1904.0
1910.9
1848.8
1707.4
1569.4
1452.1
1372.8
1317.6
1214.1
1127.9
1007.2
872.7
738.1
658.8
586.4
462.2
338.0
265.6
175.9
113.8
44.8
0.0
0.0

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