

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: P638282

Luminaire Tested: **IFLD-S-SA3D-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14245.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

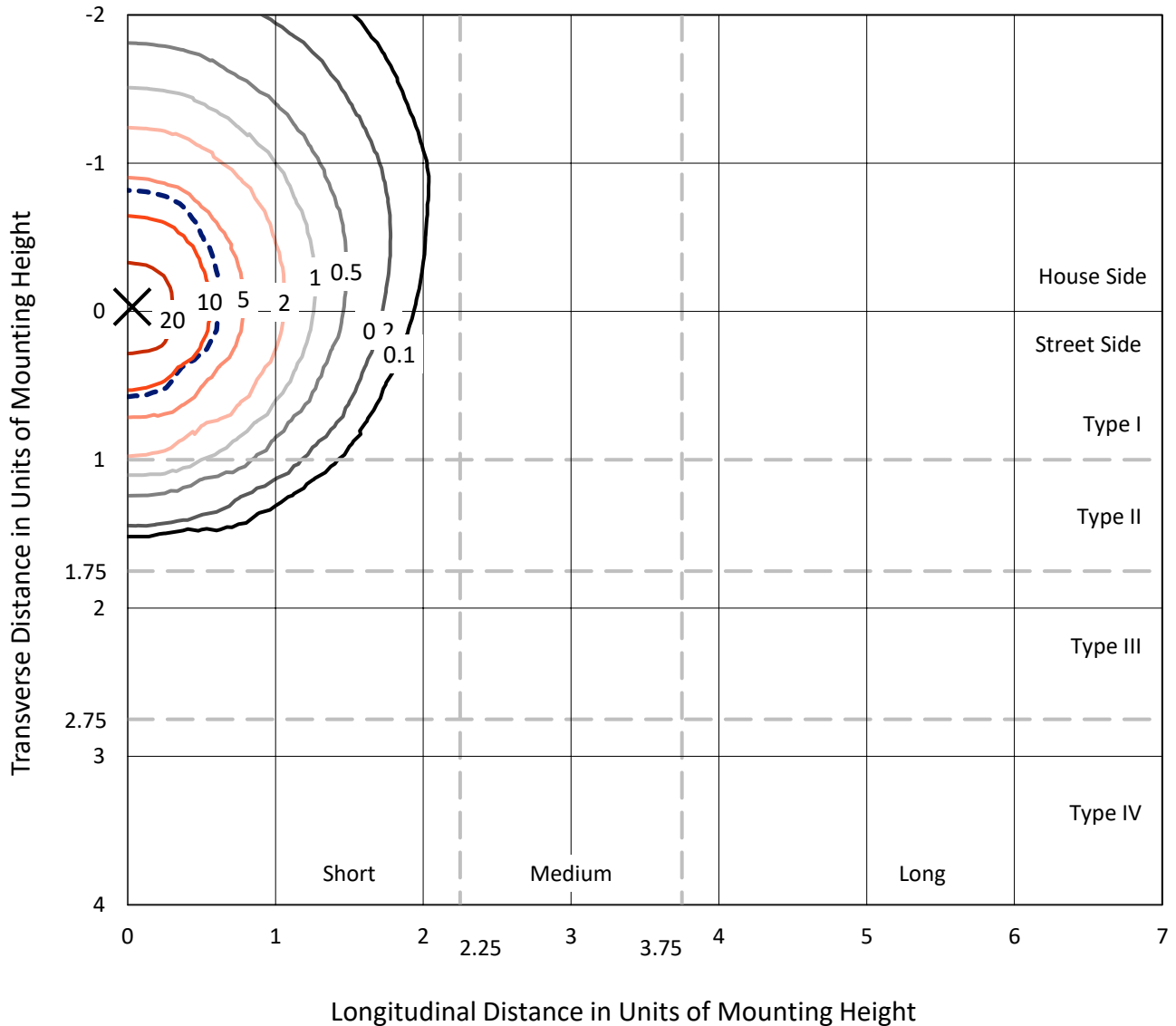
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

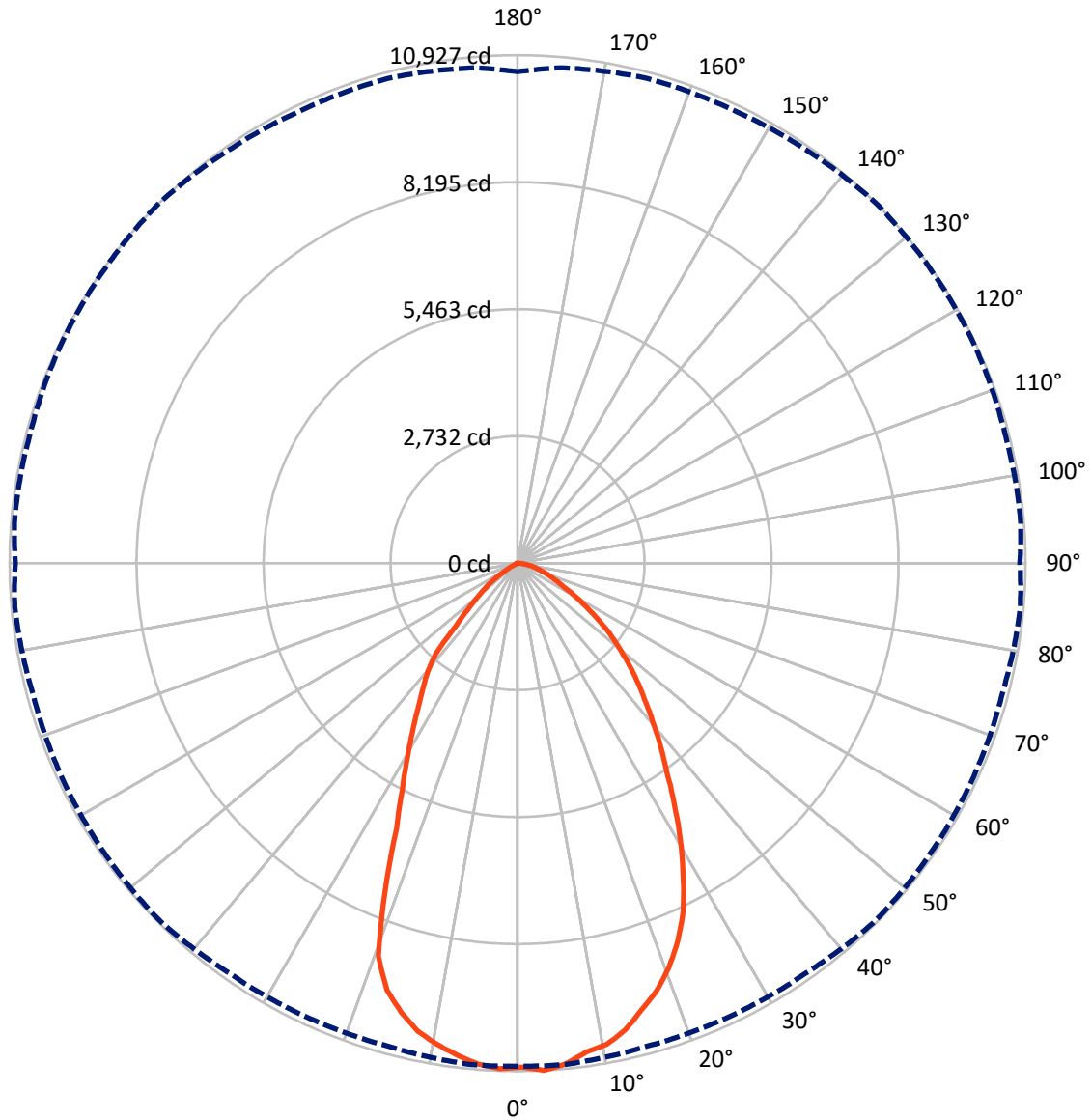
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8436.7	0.0	8436.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5808.4	0.0	5808.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	14245.1	0.0	14245.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.7	7.1
10°-20°	2726.3	19.1
20°-30°	3324.8	23.3
30°-40°	3035.5	21.3
40°-50°	2193.7	15.4
50°-60°	1197.8	8.4
60°-70°	495.2	3.5
70°-80°	200.6	1.4
80°-90°	54.6	0.4
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°	14245.1	100.0
0°-180°	14245.1	100.0



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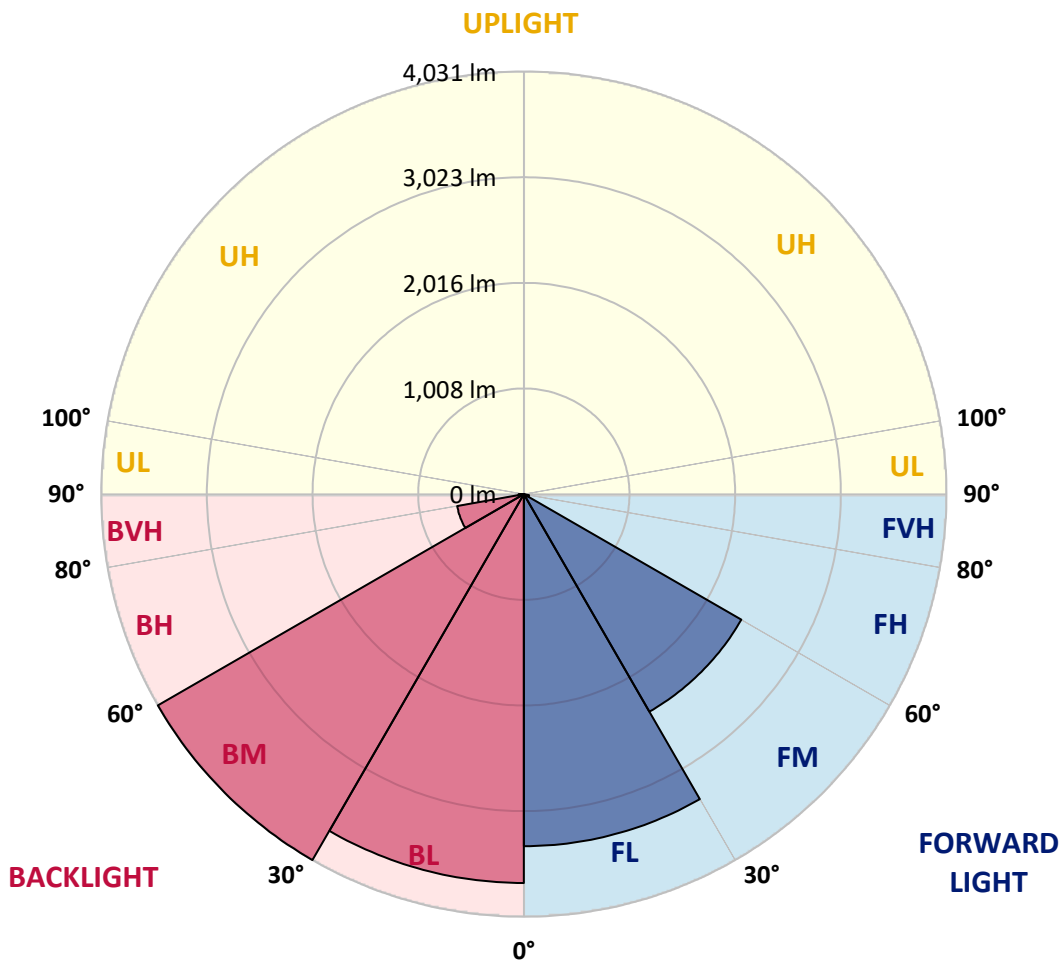
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3358.1	23.6			
FM	(30°-60°)	2395.8	16.8			
FH	(60°-80°)	50.2	0.4			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	3709.6	26.0	B4/5000		
BM	(30°-60°)	4031.2	28.3	B3/5000		
BH	(60°-80°)	645.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	50.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5
2.5°	10820.4	10834.5	10758.2	10766.3	10780.3	10882.6	10856.5	10832.5	10798.4	10856.5
5°	10806.4	10814.4	10734.2	10706.1	10718.1	10810.4	10726.1	10726.1	10718.1	10708.1
7.5°	10698.1	10702.1	10639.9	10589.7	10621.8	10663.9	10601.8	10631.9	10587.7	10621.8
10°	10535.6	10509.5	10435.3	10421.2	10457.3	10497.4	10455.3	10483.4	10443.3	10469.4
12.5°	10296.8	10256.7	10196.5	10178.5	10240.7	10294.8	10260.7	10244.7	10192.5	10256.7
15°	9376.1	9346.0	9482.4	9721.1	9935.8	9981.9	9945.8	9961.8	9853.5	9871.6
17.5°	7717.1	7661.0	7807.4	8373.1	9179.5	9604.8	9572.7	9468.4	9307.9	9344.0
20°	7013.0	6997.0	6980.9	7115.3	7679.0	8968.9	9013.0	8748.2	8519.5	8469.4
22.5°	6615.8	6609.8	6593.8	6623.8	6772.3	7600.8	8106.3	7861.6	7709.1	7695.1
25°	6252.7	6242.7	6194.6	6232.7	6232.7	6280.8	6928.8	7077.2	6942.8	6926.8
27.5°	5883.6	5865.6	5857.5	5875.6	5783.3	5458.4	5622.8	6347.0	6276.8	6280.8
30°	5484.4	5478.4	5456.3	5494.5	5209.6	4806.4	4702.1	5685.0	5699.1	5695.1
32.5°	4890.7	4916.7	5017.0	5059.2	4589.8	4256.8	4082.2	4918.7	5205.6	5199.6
35°	3552.6	3552.6	3879.6	4487.4	4022.0	3771.3	3677.0	4170.5	4718.1	4738.2
37.5°	2920.8	2930.8	2995.0	3271.8	3470.4	3382.1	3354.0	3510.5	4092.3	4124.4
40°	2627.9	2627.9	2627.9	2513.5	2507.5	3047.1	3031.1	2980.9	3534.6	3604.8
42.5°	2361.1	2367.1	2371.1	2082.2	1921.8	2633.9	2597.8	2521.6	3035.1	3117.3
45°	2086.3	2096.3	2108.3	1741.2	1671.0	1895.7	2198.6	2114.3	2541.6	2647.9
47.5°	1273.8	1289.9	1562.7	1476.4	1484.4	1462.4	1793.4	1779.3	2084.2	2234.7
50°	860.6	866.6	892.7	936.8	1273.8	1149.4	1269.8	1472.4	1582.7	1811.4
52.5°	722.2	732.2	668.0	607.8	836.5	898.7	886.7	1093.3	1137.4	1420.3
55°	507.5	539.6	509.5	503.5	475.4	698.1	672.0	840.5	868.6	1079.2
57.5°	52.2	60.2	104.3	375.1	310.9	395.2	479.4	615.8	643.9	796.4
60°	4.0	4.0	10.0	52.2	226.7	236.7	331.0	379.1	433.3	555.7
62.5°	0.0	2.0	4.0	8.0	36.1	126.4	166.5	198.6	260.8	359.1
65°	0.0	0.0	2.0	6.0	8.0	48.1	64.2	104.3	142.4	222.7
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	22.1	38.1	76.2	126.4
70°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	24.1	34.1	68.2
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	12.0	16.0	24.1	34.1
75°	0.0	0.0	2.0	2.0	6.0	12.0	10.0	12.0	16.0	22.1
77.5°	0.0	0.0	2.0	4.0	6.0	12.0	10.0	12.0	12.0	14.0
80°	0.0	0.0	2.0	4.0	8.0	14.0	12.0	12.0	10.0	10.0
82.5°	0.0	0.0	2.0	6.0	8.0	18.1	18.1	16.0	8.0	6.0
85°	0.0	0.0	4.0	8.0	12.0	20.1	20.1	16.0	6.0	4.0
87.5°	0.0	0.0	4.0	6.0	10.0	14.0	20.1	16.0	6.0	2.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
10840.5	0°	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5	10840.5
10806.4	2.5°	10860.5	10848.5	10888.6	10904.7	10926.7	10842.5	10790.3	10792.3	10696.0
10684.0	5°	10748.2	10750.2	10802.4	10798.4	10820.4	10774.3	10754.2	10720.1	10635.9
10529.5	7.5°	10605.8	10587.7	10637.9	10676.0	10619.8	10651.9	10605.8	10621.8	10571.7
10393.1	10°	10495.4	10453.3	10499.5	10525.5	10527.5	10495.4	10451.3	10409.2	10391.1
10180.5	12.5°	10250.7	10196.5	10274.8	10310.9	10304.9	10242.7	10192.5	10202.6	10144.4
9807.4	15°	9913.7	9915.7	9971.9	10006.0	9973.9	9959.8	9963.9	9939.8	9889.6
9291.8	17.5°	9398.2	9428.2	9576.7	9658.9	9677.0	9648.9	9634.9	9606.8	9556.6
8469.4	20°	8539.6	8720.1	8984.9	9239.7	9289.8	9281.8	9231.7	9219.6	9191.5
7654.9	22.5°	7785.3	7919.7	8226.6	8623.8	8828.4	8848.5	8788.3	8770.3	8740.2
6926.8	25°	7005.0	7149.4	7426.2	7857.5	8280.8	8367.1	8357.0	8302.9	8270.8
6280.8	27.5°	6347.0	6491.4	6742.2	7131.4	7584.7	7861.6	7887.6	7801.4	7799.4
5705.1	30°	5753.2	5951.8	6142.4	6459.4	6898.7	7313.9	7358.0	7297.9	7303.9
5177.5	32.5°	5287.8	5452.3	5614.8	5827.5	6192.6	6676.0	6848.5	6792.3	6770.3
4738.2	35°	4812.4	4924.8	5091.3	5285.8	5534.6	6014.0	6312.9	6270.8	6248.7
4144.4	37.5°	4270.8	4463.4	4583.7	4802.4	4997.0	5378.1	5799.4	5793.4	5747.2
3638.9	40°	3715.1	3917.7	4100.3	4320.9	4471.4	4774.3	5241.7	5239.7	5245.7
3115.3	42.5°	3211.6	3398.2	3618.8	3859.6	4004.0	4224.7	4726.2	4754.2	4788.3
2684.0	45°	2756.3	2924.8	3129.4	3422.3	3596.8	3723.2	4168.5	4296.9	4294.9
2298.9	47.5°	2347.0	2505.5	2678.0	2962.9	3185.5	3299.9	3669.0	3851.5	3839.5
1885.6	50°	1969.9	2110.3	2290.9	2497.5	2796.4	2896.7	3171.5	3412.2	3394.2
1502.5	52.5°	1584.7	1779.3	1931.8	2120.4	2435.3	2533.6	2746.2	2980.9	2966.9
1127.4	55°	1235.7	1424.3	1608.8	1771.3	2036.1	2182.5	2335.0	2575.7	2571.7
882.6	57.5°	934.8	1141.4	1315.9	1470.4	1681.0	1861.6	1983.9	2202.6	2230.7
603.8	60°	692.1	850.5	1039.1	1211.6	1378.1	1564.7	1646.9	1861.6	1873.6
413.2	62.5°	471.4	645.9	830.5	987.0	1111.3	1303.9	1378.1	1554.7	1576.7
264.8	65°	327.0	439.3	649.9	762.3	914.7	1079.2	1153.5	1293.9	1338.0
152.5	67.5°	216.6	312.9	507.5	609.8	760.3	872.6	966.9	1081.2	1129.4
96.3	70°	118.4	230.7	363.1	481.4	611.8	720.2	812.4	904.7	946.8
44.1	72.5°	80.2	154.5	252.8	381.1	493.5	599.8	682.0	750.2	752.3
26.1	75°	40.1	104.3	192.6	294.9	385.2	489.5	563.7	603.8	555.7
16.0	77.5°	24.1	76.2	156.5	236.7	312.9	395.2	437.3	459.4	381.1
12.0	80°	14.0	54.2	122.4	188.6	216.6	290.9	331.0	337.0	254.8
8.0	82.5°	10.0	40.1	96.3	138.4	132.4	204.6	248.7	240.7	162.5
6.0	85°	6.0	28.1	60.2	86.3	80.2	134.4	144.4	148.4	94.3
4.0	87.5°	4.0	16.0	32.1	46.1	38.1	58.2	58.2	70.2	46.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10840.5
10571.7
10615.8
10487.4
10310.9
10094.2
9839.5
9534.6
9127.3
8732.2
8236.7
7795.4
7273.8
6772.3
6218.6
5785.3
5245.7
4770.3
4298.9
3843.5
3410.2
2997.0
2581.7
2218.6
1891.7
1580.7
1328.0
1123.4
930.8
734.2
519.6
367.1
238.7
150.5
86.3
40.1
0.0

(END OF REPORT)