

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: P637489

Luminaire Tested: **IFLD-L-SA8C-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35920.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

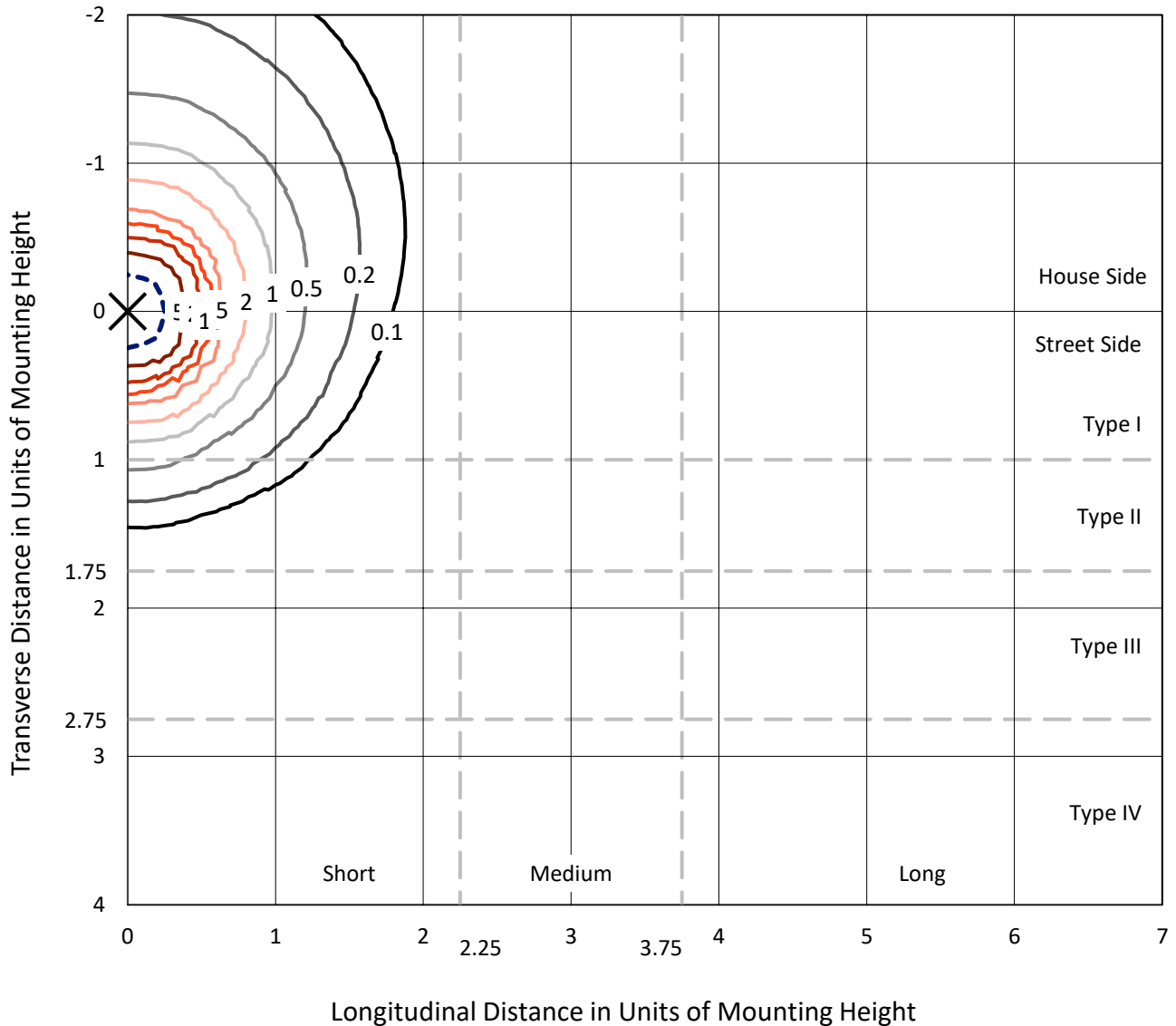
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

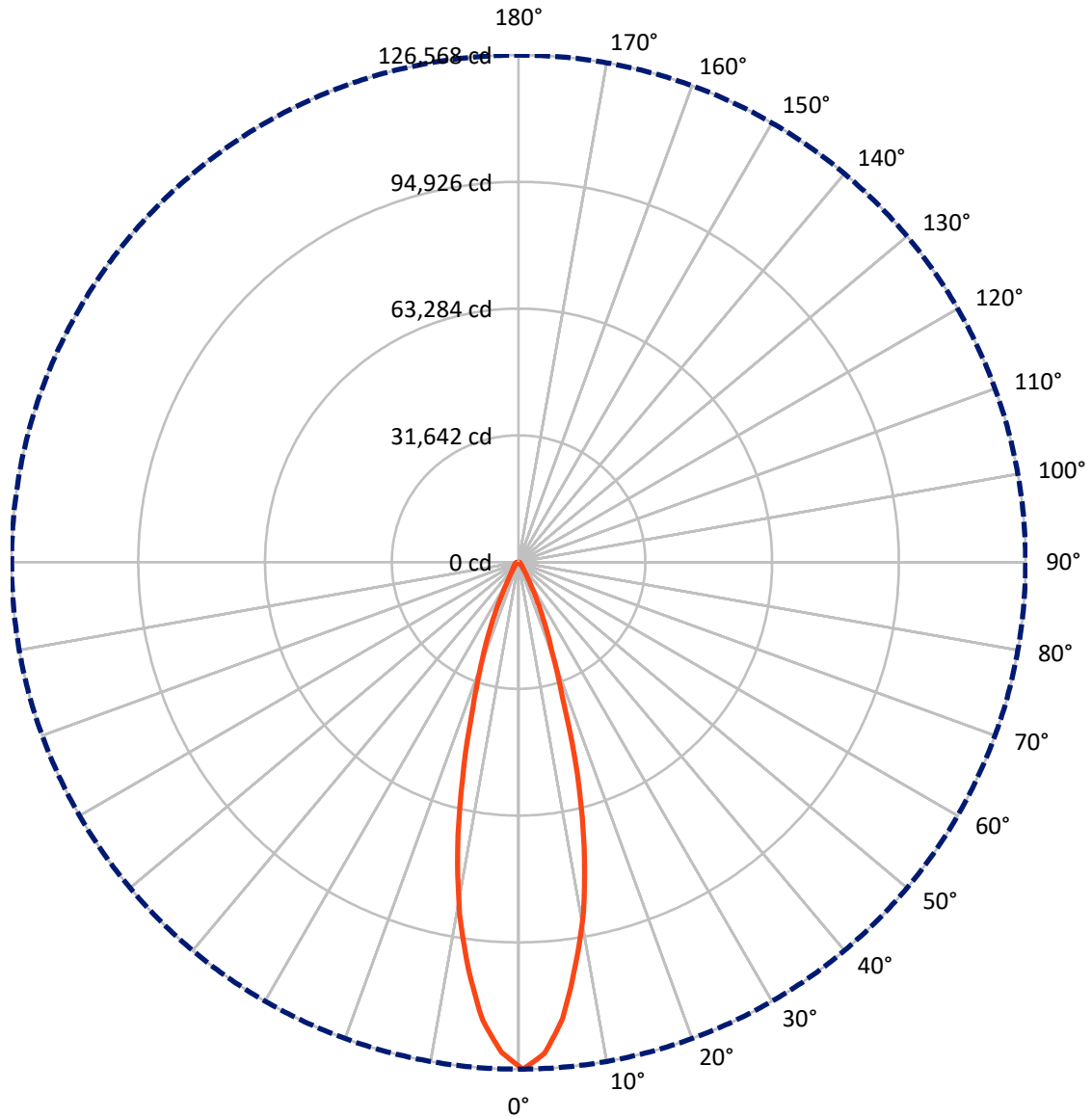
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 316.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18939.6	0.0	18939.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16980.7	0.0	16980.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	35920.3	0.0	35920.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10215.1	28.4
10°-20°	15470.7	43.1
20°-30°	6528.7	18.2
30°-40°	1702.7	4.7
40°-50°	861.2	2.4
50°-60°	562.9	1.6
60°-70°	337.3	0.9
70°-80°	177.4	0.5
80°-90°	64.1	0.2
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°	35920.3	100.0
0°-180°	35920.3	100.0



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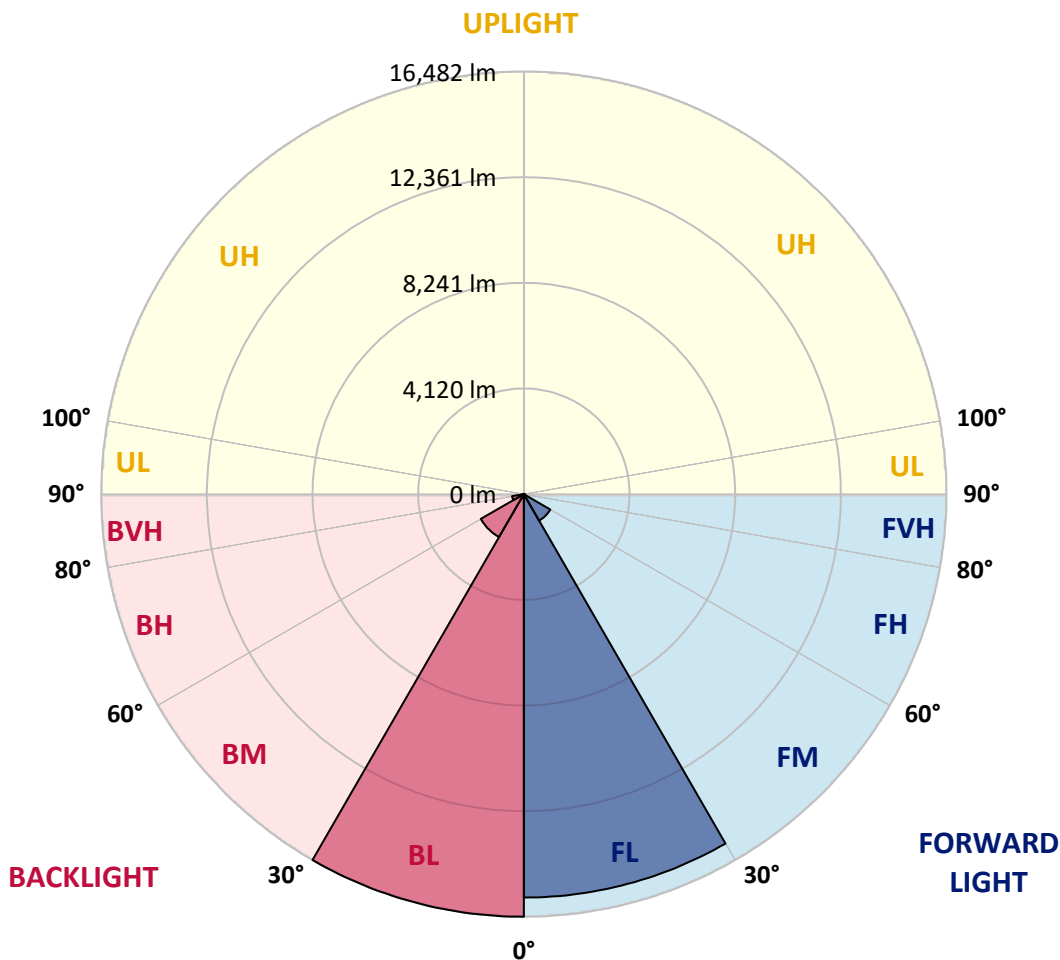
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15732.9	43.8			
FM (30°-60°)	1191.5	3.3			
FH (60°-80°)	48.6	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16481.8	45.9	B5		
BM (30°-60°)	1935.4	5.4	B2/2500		
BH (60°-80°)	466.1	1.3	B1/500		G0/660
BVH (80°-90°)	56.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7
2.5°	122880.7	122949.3	122695.1	123243.8	122816.2	123961.8	123393.0	124280.5	123982.0	124478.1
5°	114490.2	114377.2	114304.6	115155.8	114909.7	116140.1	115353.4	115095.3	115894.0	115748.8
7.5°	101819.7	102118.2	101948.8	102170.7	102295.7	103699.5	104143.2	103796.3	103808.4	104010.1
10°	88830.5	88390.8	87765.6	88181.1	89060.5	89673.6	89427.6	89935.8	89822.9	90302.9
12.5°	72848.2	73195.1	72844.2	72473.1	74010.0	73840.6	74268.2	74546.5	73848.6	75401.7
15°	54873.2	55054.7	55482.3	55454.0	56636.0	56874.0	56817.5	57112.0	56567.4	56825.6
17.5°	35252.3	35865.4	37015.1	38959.4	41145.8	41399.9	41335.4	41093.4	40831.2	40540.7
20°	23679.0	23614.5	24030.0	24598.7	29124.8	30322.8	30286.5	29528.2	28430.9	28221.2
22.5°	16587.4	16708.4	16651.9	17216.7	18152.6	21456.3	21048.9	20278.4	19919.4	19685.4
25°	10911.7	10867.3	11149.7	11319.1	12121.9	12525.3	13953.3	13666.9	13114.2	13174.7
27.5°	6651.9	6708.4	6813.3	6958.5	7527.3	7398.2	8213.0	8321.9	8144.4	7954.9
30°	4082.3	4122.6	4207.4	4312.2	4509.9	4368.7	4594.6	4985.9	4921.4	4788.2
32.5°	2771.3	2775.3	2835.8	2876.2	2852.0	2718.8	2791.5	3162.6	3170.6	3158.5
35°	1992.7	1992.7	2049.2	2081.5	2012.9	1904.0	1916.1	2146.0	2246.9	2267.1
37.5°	1375.6	1379.6	1476.4	1573.2	1496.6	1468.3	1419.9	1573.2	1734.6	1758.8
40°	1044.8	1040.7	1089.2	1161.8	1169.8	1117.4	1133.5	1230.3	1395.7	1415.9
42.5°	847.1	851.2	875.4	867.3	871.3	939.9	964.1	1008.5	1161.8	1198.1
45°	714.0	718.0	730.1	689.8	673.7	778.5	810.8	835.0	964.1	1008.5
47.5°	588.9	597.0	609.1	564.7	556.7	625.3	681.7	705.9	818.9	867.3
50°	423.6	431.6	476.0	451.8	476.0	492.1	568.8	605.1	681.7	746.3
52.5°	306.6	314.6	326.7	330.8	391.3	399.4	455.8	512.3	548.6	621.2
55°	242.0	250.1	242.0	234.0	286.4	330.8	350.9	411.5	439.7	524.4
57.5°	137.2	145.2	157.3	181.5	189.6	254.1	274.3	326.7	350.9	431.6
60°	24.2	28.2	44.4	108.9	133.1	161.4	205.7	250.1	282.4	338.8
62.5°	4.0	4.0	8.1	24.2	76.6	112.9	149.3	177.5	205.7	258.2
65°	0.0	0.0	4.0	8.1	20.2	64.5	80.7	104.9	141.2	185.6
67.5°	0.0	0.0	4.0	8.1	12.1	24.2	36.3	64.5	80.7	125.1
70°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	28.2	48.4	76.6
72.5°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	24.2	24.2	48.4
75°	0.0	0.0	4.0	8.1	12.1	20.2	24.2	24.2	20.2	20.2
77.5°	0.0	0.0	4.0	8.1	16.1	24.2	28.2	24.2	16.1	16.1
80°	0.0	0.0	8.1	12.1	20.2	28.2	36.3	28.2	16.1	8.1
82.5°	0.0	0.0	8.1	16.1	20.2	32.3	44.4	36.3	16.1	8.1
85°	0.0	0.0	4.0	12.1	24.2	32.3	44.4	32.3	16.1	4.0
87.5°	0.0	0.0	4.0	4.0	8.1	12.1	24.2	20.2	8.1	4.0
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°
126567.7	0°	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7	126567.7
123538.2	2.5°	124248.2	124893.6	125026.7	124849.2	125107.4	124643.5	124288.5	123368.8	122816.2
115704.4	5°	116450.7	116353.9	117027.5	117249.4	117221.1	116866.2	116370.0	115813.3	115272.8
103618.8	7.5°	104264.3	104389.3	105002.5	105393.7	105196.1	104752.4	104409.5	103989.9	103626.9
90476.4	10°	91303.3	90444.1	91206.5	91206.5	91735.0	90480.4	90597.4	89540.5	89588.9
75373.4	12.5°	75631.6	75942.2	76067.3	76426.3	75809.1	75143.5	74328.7	74167.3	73663.1
56333.4	15°	57144.2	58031.7	57269.3	58572.2	57943.0	57249.1	57124.1	55873.6	56268.9
40859.4	17.5°	40657.7	41637.9	41944.5	42690.8	42118.0	41706.5	41186.1	40806.9	40778.7
28604.4	20°	28830.3	29814.6	30040.5	30936.0	30871.4	30742.4	30302.7	29822.6	29302.3
19471.6	22.5°	19766.1	20568.9	21319.2	22525.3	22505.1	22125.9	22081.6	21403.9	21416.0
13154.6	25°	13291.7	13876.6	14054.1	15288.5	15425.6	15385.3	15155.4	14526.1	14764.1
8035.5	27.5°	8043.6	8555.9	9157.0	9592.6	10004.1	9939.5	9709.6	9358.7	9205.4
4828.6	30°	4957.7	5187.6	5409.5	5933.9	6179.9	6309.0	6200.1	5873.4	5897.6
3178.7	32.5°	3247.3	3440.9	3602.3	3933.1	4062.1	4300.1	4255.8	4187.2	4106.5
2287.2	35°	2367.9	2509.1	2618.0	2771.3	2936.7	3138.4	3170.6	3142.4	3110.1
1766.8	37.5°	1807.2	1952.4	2077.5	2142.0	2271.1	2428.4	2517.2	2513.1	2488.9
1440.1	40°	1468.3	1577.3	1690.2	1774.9	1863.7	1980.6	2089.6	2101.7	2101.7
1210.2	42.5°	1226.3	1319.1	1432.0	1520.8	1585.3	1694.2	1807.2	1815.3	1807.2
1024.6	45°	1048.8	1129.5	1238.4	1343.3	1395.7	1476.4	1585.3	1609.5	1593.4
879.4	47.5°	911.7	984.3	1077.1	1190.0	1246.5	1319.1	1419.9	1448.2	1444.1
758.4	50°	782.6	867.3	960.1	1052.8	1125.5	1194.0	1290.8	1323.1	1311.0
645.4	52.5°	689.8	766.4	847.1	948.0	1032.7	1093.2	1169.8	1226.3	1210.2
544.6	55°	576.8	669.6	754.3	839.1	943.9	1008.5	1081.1	1149.7	1133.5
459.9	57.5°	500.2	576.8	673.7	750.3	855.2	931.8	1004.4	1077.1	1073.0
375.2	60°	419.5	500.2	593.0	673.7	770.5	855.2	927.8	1008.5	1016.5
282.4	62.5°	330.8	427.6	508.3	601.1	697.9	790.6	855.2	935.9	948.0
213.8	65°	250.1	350.9	439.7	528.4	625.3	726.1	782.6	851.2	863.3
157.3	67.5°	185.6	270.3	375.2	455.8	556.7	653.5	705.9	762.4	782.6
96.8	70°	141.2	205.7	314.6	391.3	496.2	572.8	629.3	677.7	693.8
64.5	72.5°	88.7	161.4	254.1	334.8	427.6	496.2	536.5	564.7	588.9
36.3	75°	60.5	125.1	205.7	286.4	355.0	407.4	443.7	467.9	488.1
16.1	77.5°	36.3	96.8	169.4	238.0	282.4	322.7	359.0	375.2	387.3
12.1	80°	20.2	72.6	141.2	193.6	221.9	250.1	278.3	298.5	306.6
8.1	82.5°	12.1	56.5	112.9	149.3	161.4	189.6	217.8	229.9	229.9
4.0	85°	8.1	40.3	76.6	108.9	117.0	137.2	145.2	153.3	161.4
4.0	87.5°	8.1	24.2	48.4	60.5	64.5	72.6	76.6	84.7	92.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
126567.7
122408.7
114667.7
102396.6
89117.0
73203.2
55873.6
40028.4
29076.4
21182.0
14388.9
9072.2
5792.7
4078.3
3098.0
2476.8
2077.5
1799.1
1593.4
1436.1
1303.0
1206.1
1141.6
1077.1
1020.6
956.0
875.4
790.6
701.9
584.9
484.1
383.2
298.5
225.9
157.3
88.7
0.0

(END OF REPORT)