

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: P637315

Luminaire Tested: **IFLD-L-SA8C-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637315  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40865.4 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

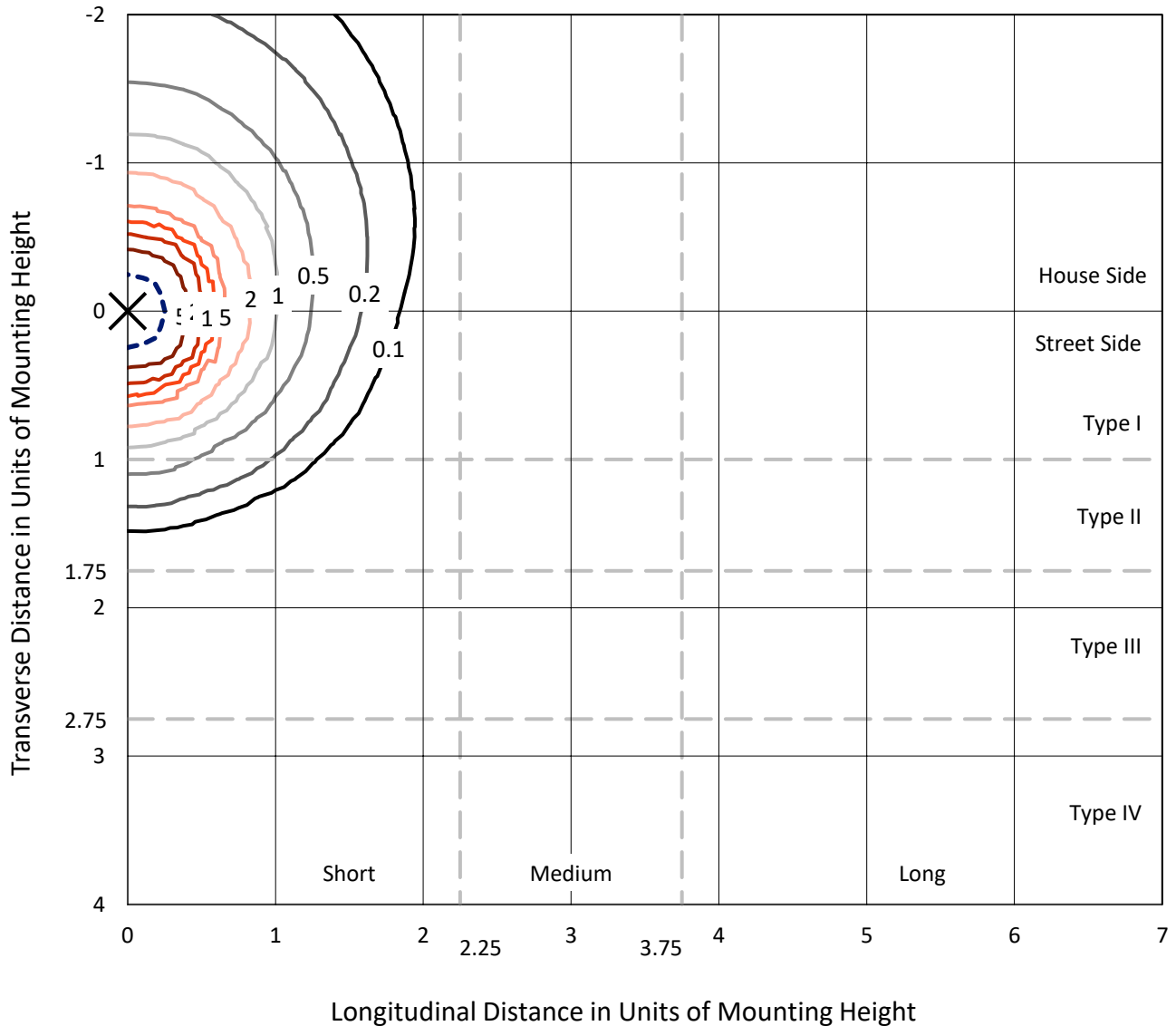
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

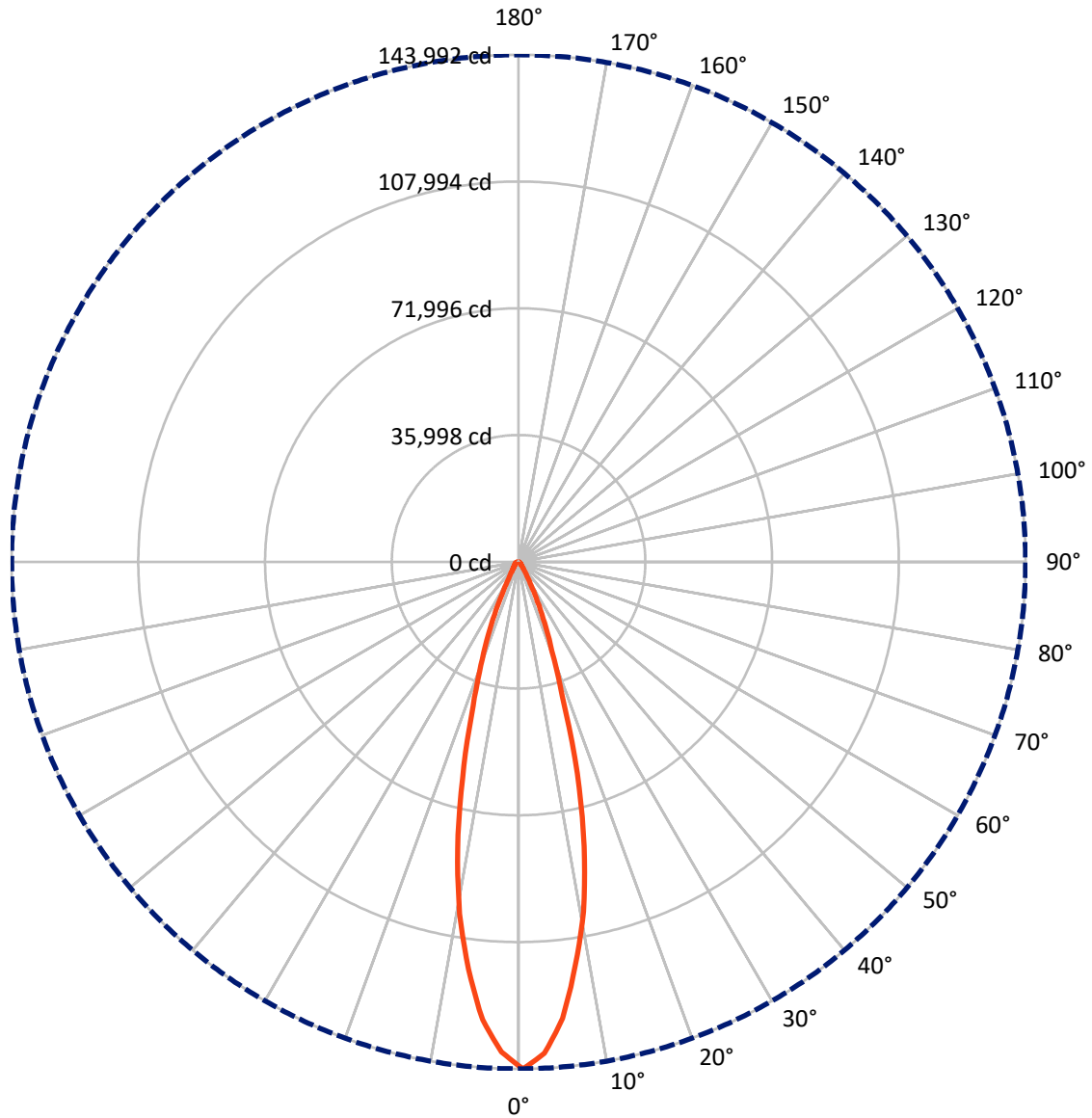
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 360 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
<b>House Side</b>	Lumens	21547.0	0.0	21547.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	19318.4	0.0	19318.4
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	40865.4	0.0	40865.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11621.4	28.4
10°-20°	17600.6	43.1
20°-30°	7427.5	18.2
30°-40°	1937.2	4.7
40°-50°	979.8	2.4
50°-60°	640.4	1.6
60°-70°	383.7	0.9
70°-80°	201.8	0.5
80°-90°	72.9	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°	40865.4	100.0
0°-180°	40865.4	100.0

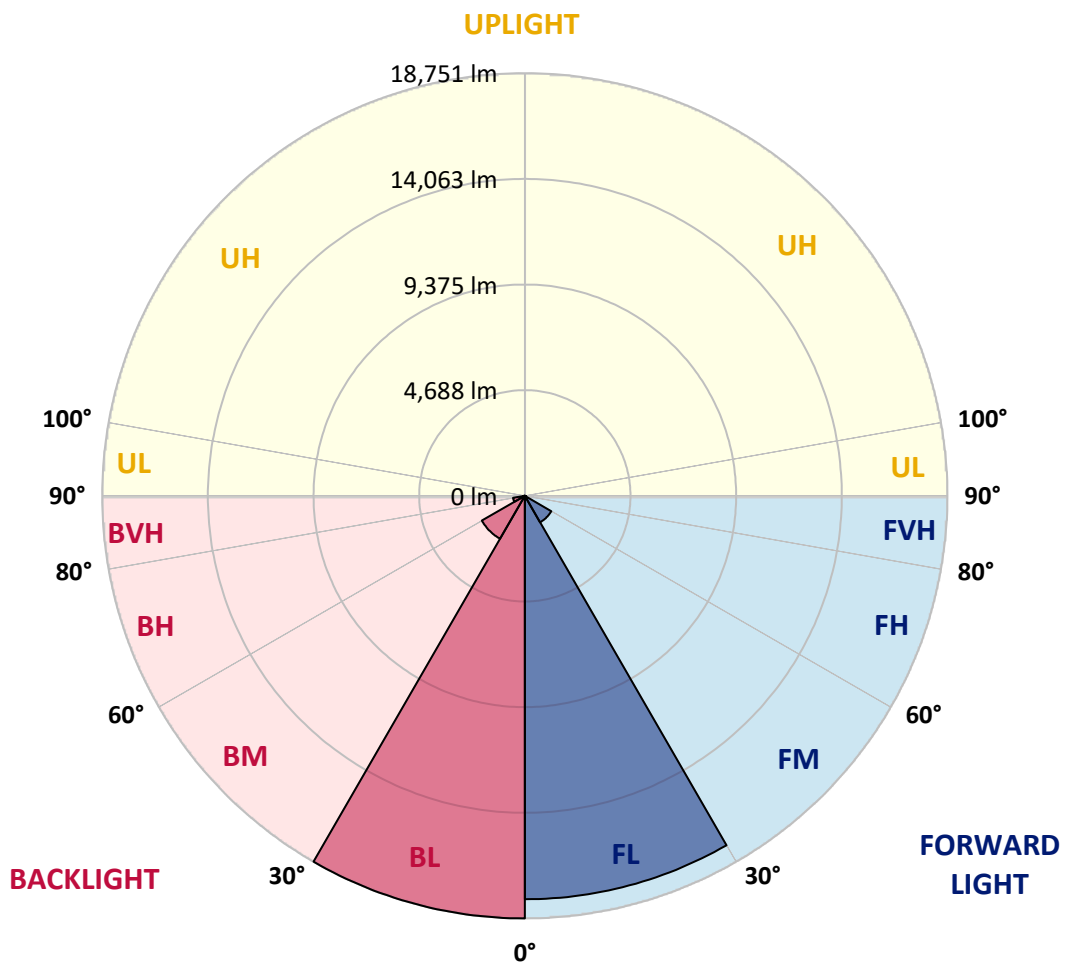


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17898.8	43.8			
FM (30°-60°)	1355.5	3.3			
FH (60°-80°)	55.2	0.1			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	18750.8	45.9	B5		
BM (30°-60°)	2201.9	5.4	B2/2500		
BH (60°-80°)	530.3	1.3	B2/1000		G0/660
BVH (80°-90°)	64.0	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°	143992.1	143992.1	143992.1	143992.1	143992.1	143992.1	143992.1	143992.1	143992.1	143992.1
2.5°	139797.5	139875.5	139586.4	140210.5	139724.1	141027.4	140380.3	141390.0	141050.4	141614.8
5°	130251.9	130123.4	130040.8	131009.1	130729.1	132128.9	131234.0	130940.3	131848.9	131683.7
7.5°	115837.1	116176.7	115983.9	116236.3	116378.6	117975.6	118480.5	118085.8	118099.6	118329.0
10°	101059.7	100559.5	99848.1	100320.8	101321.3	102018.8	101738.9	102317.2	102188.7	102734.8
12.5°	82877.1	83271.8	82872.5	82450.3	84198.8	84006.1	84492.5	84809.2	84015.3	85782.1
15°	62427.5	62634.0	63120.4	63088.3	64433.0	64703.7	64639.5	64974.5	64354.9	64648.7
17.5°	40105.4	40803.0	42110.9	44322.9	46810.3	47099.4	47026.0	46750.6	46452.3	46121.9
20°	26938.9	26865.4	27338.1	27985.2	33134.3	34497.3	34456.0	33593.3	32345.0	32106.3
22.5°	18871.0	19008.6	18944.4	19586.9	20651.6	24410.2	23946.7	23070.1	22661.7	22395.5
25°	12413.9	12363.4	12684.7	12877.4	13790.7	14249.6	15874.2	15548.4	14919.6	14988.5
27.5°	7567.7	7631.9	7751.2	7916.4	8563.5	8416.7	9343.7	9467.6	9265.7	9050.0
30°	4644.3	4690.2	4786.6	4905.9	5130.8	4970.1	5227.1	5672.3	5598.9	5447.4
32.5°	3152.8	3157.4	3226.2	3272.1	3244.6	3093.1	3175.8	3598.0	3607.1	3593.4
35°	2267.1	2267.1	2331.3	2368.0	2290.0	2166.1	2179.9	2441.5	2556.2	2579.2
37.5°	1564.9	1569.5	1679.7	1789.8	1702.6	1670.5	1615.4	1789.8	1973.4	2000.9
40°	1188.6	1184.0	1239.1	1321.7	1330.9	1271.2	1289.6	1399.7	1587.9	1610.8
42.5°	963.7	968.3	995.9	986.7	991.3	1069.3	1096.8	1147.3	1321.7	1363.0
45°	812.3	816.9	830.7	784.8	766.4	885.7	922.4	950.0	1096.8	1147.3
47.5°	670.0	679.2	693.0	642.5	633.3	711.3	775.6	803.1	931.6	986.7
50°	481.9	491.0	541.5	514.0	541.5	559.9	647.1	688.4	775.6	849.0
52.5°	348.8	358.0	371.7	376.3	445.2	454.3	518.6	582.8	624.1	706.7
55°	275.4	284.5	275.4	266.2	325.8	376.3	399.3	468.1	500.2	596.6
57.5°	156.0	165.2	179.0	206.5	215.7	289.1	312.1	371.7	399.3	491.0
60°	27.5	32.1	50.5	123.9	151.4	183.6	234.1	284.5	321.2	385.5
62.5°	4.6	4.6	9.2	27.5	87.2	128.5	169.8	201.9	234.1	293.7
65°	0.0	0.0	4.6	9.2	22.9	73.4	91.8	119.3	160.6	211.1
67.5°	0.0	0.0	4.6	9.2	13.8	27.5	41.3	73.4	91.8	142.3
70°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	32.1	55.1	87.2
72.5°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	27.5	27.5	55.1
75°	0.0	0.0	4.6	9.2	13.8	22.9	27.5	27.5	22.9	22.9
77.5°	0.0	0.0	4.6	9.2	18.4	27.5	32.1	27.5	18.4	18.4
80°	0.0	0.0	9.2	13.8	22.9	32.1	41.3	32.1	18.4	9.2
82.5°	0.0	0.0	9.2	18.4	22.9	36.7	50.5	41.3	18.4	9.2
85°	0.0	0.0	4.6	13.8	27.5	36.7	50.5	36.7	18.4	4.6
87.5°	0.0	0.0	4.6	4.6	9.2	13.8	27.5	22.9	9.2	4.6
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°
<b>143992.1</b>	0°	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>	<b>143992.1</b>
140545.5	2.5°	141353.2	142087.5	142239.0	142037.0	142330.8	141803.0	141399.1	140352.8	139724.1
131633.2	5°	132482.2	132372.1	133138.5	133390.9	133358.8	132954.9	132390.5	131757.1	131142.2
117883.9	7.5°	118618.1	118760.4	119458.0	119903.1	119678.3	119173.4	118783.4	118306.1	117893.0
102932.1	10°	103872.9	102895.4	103762.8	103762.8	104364.0	102936.7	103069.8	101867.4	101922.5
85750.0	12.5°	86043.7	86397.1	86539.3	86947.8	86245.6	85488.4	84561.4	84377.8	83804.1
64088.8	15°	65011.2	66020.8	65153.5	66635.8	65919.9	65130.5	64988.3	63565.6	64015.3
46484.4	17.5°	46255.0	47370.2	47718.9	48567.9	47916.3	47448.2	46856.2	46424.8	46392.6
32542.3	20°	32799.3	33919.1	34176.1	35194.9	35121.5	34974.6	34474.4	33928.3	33336.3
22152.3	22.5°	22487.3	23400.5	24254.1	25626.3	25603.4	25172.0	25121.5	24350.5	24364.3
14965.5	25°	15121.6	15787.0	15988.9	17393.2	17549.3	17503.4	17241.8	16525.9	16796.6
9141.8	27.5°	9150.9	9733.8	10417.6	10913.2	11381.3	11307.9	11046.3	10647.0	10472.7
5493.3	30°	5640.2	5901.8	6154.2	6750.8	7030.7	7177.6	7053.7	6681.9	6709.5
3616.3	32.5°	3694.3	3914.6	4098.2	4474.5	4621.4	4892.1	4841.7	4763.6	4671.8
2602.1	35°	2693.9	2854.5	2978.4	3152.8	3341.0	3570.4	3607.1	3575.0	3538.3
2010.1	37.5°	2056.0	2221.2	2363.5	2436.9	2583.7	2762.7	2863.7	2859.1	2831.6
1638.4	40°	1670.5	1794.4	1922.9	2019.3	2120.2	2253.3	2377.2	2391.0	2391.0
1376.8	42.5°	1395.1	1500.7	1629.2	1730.1	1803.6	1927.5	2056.0	2065.2	2056.0
1165.7	45°	1193.2	1285.0	1408.9	1528.2	1587.9	1679.7	1803.6	1831.1	1812.8
1000.5	47.5°	1037.2	1119.8	1225.3	1353.8	1418.1	1500.7	1615.4	1647.5	1642.9
862.8	50°	890.3	986.7	1092.2	1197.8	1280.4	1358.4	1468.6	1505.3	1491.5
734.3	52.5°	784.8	872.0	963.7	1078.5	1174.8	1243.7	1330.9	1395.1	1376.8
619.5	55°	656.3	761.8	858.2	954.6	1073.9	1147.3	1229.9	1307.9	1289.6
523.2	57.5°	569.1	656.3	766.4	853.6	972.9	1060.1	1142.7	1225.3	1220.7
426.8	60°	477.3	569.1	674.6	766.4	876.5	972.9	1055.5	1147.3	1156.5
321.2	62.5°	376.3	486.5	578.2	683.8	793.9	899.5	972.9	1064.7	1078.5
243.2	65°	284.5	399.3	500.2	601.2	711.3	826.1	890.3	968.3	982.1
179.0	67.5°	211.1	307.5	426.8	518.6	633.3	743.5	803.1	867.4	890.3
110.1	70°	160.6	234.1	358.0	445.2	564.5	651.7	715.9	771.0	789.3
73.4	72.5°	101.0	183.6	289.1	380.9	486.5	564.5	610.4	642.5	670.0
41.3	75°	68.8	142.3	234.1	325.8	403.9	463.5	504.8	532.4	555.3
18.4	77.5°	41.3	110.1	192.7	270.8	321.2	367.1	408.4	426.8	440.6
13.8	80°	22.9	82.6	160.6	220.3	252.4	284.5	316.7	339.6	348.8
9.2	82.5°	13.8	64.2	128.5	169.8	183.6	215.7	247.8	261.6	261.6
4.6	85°	9.2	45.9	87.2	123.9	133.1	156.0	165.2	174.4	183.6
4.6	87.5°	9.2	27.5	55.1	68.8	73.4	82.6	87.2	96.4	105.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
143992.1  
139260.5  
130453.8  
116493.3  
101385.5  
83281.0  
63565.6  
45539.0  
33079.3  
24098.1  
16369.8  
10321.2  
6590.2  
4639.7  
3524.5  
2817.8  
2363.5  
2046.8  
1812.8  
1633.8  
1482.3  
1372.2  
1298.8  
1225.3  
1161.1  
1087.7  
995.9  
899.5  
798.5  
665.4  
550.7  
436.0  
339.6  
257.0  
179.0  
101.0  
0.0

(END OF REPORT)