

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: P637092

Luminaire Tested: **IFLD-S-SA3C-735-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637092  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20776.5 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

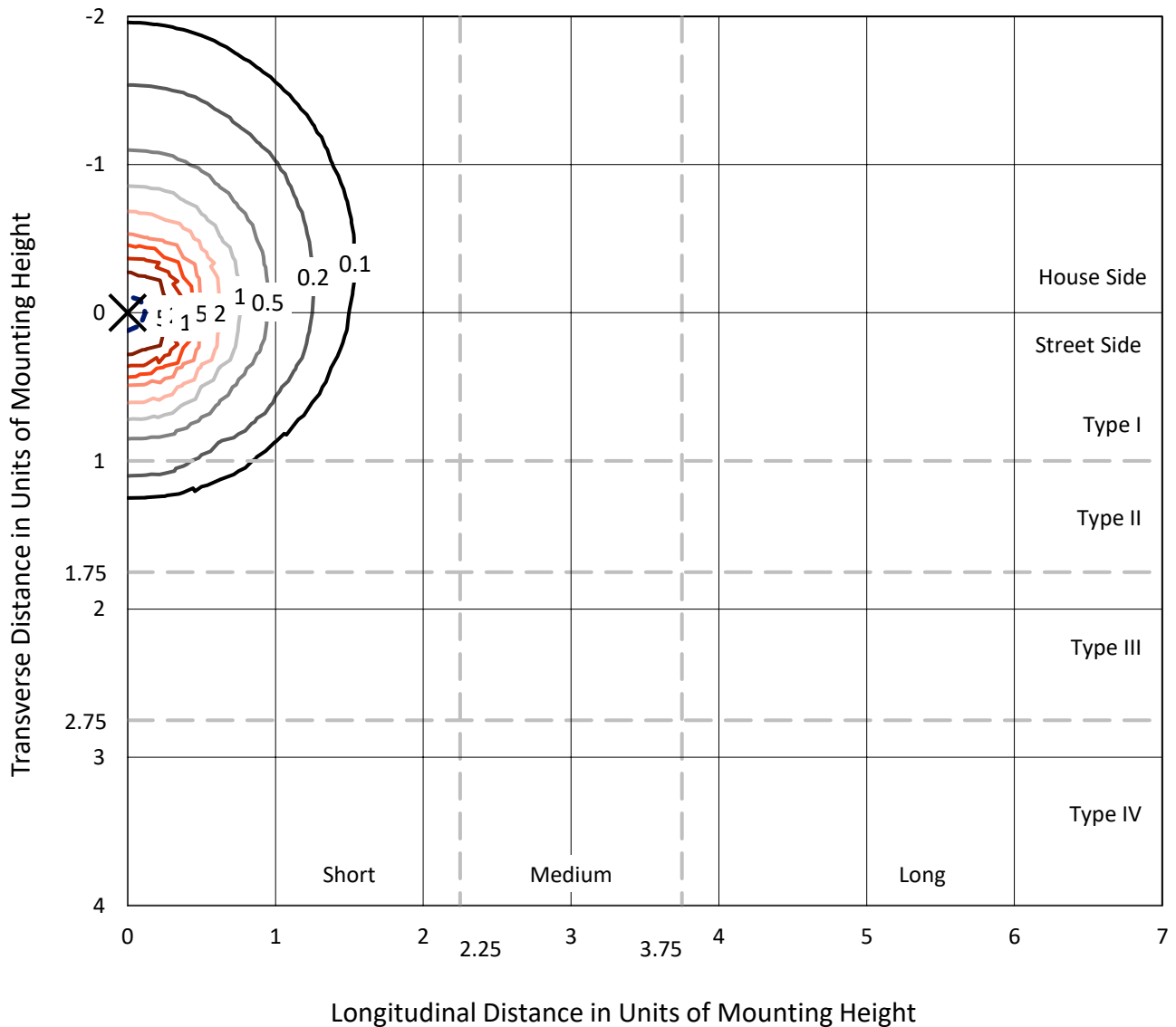
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

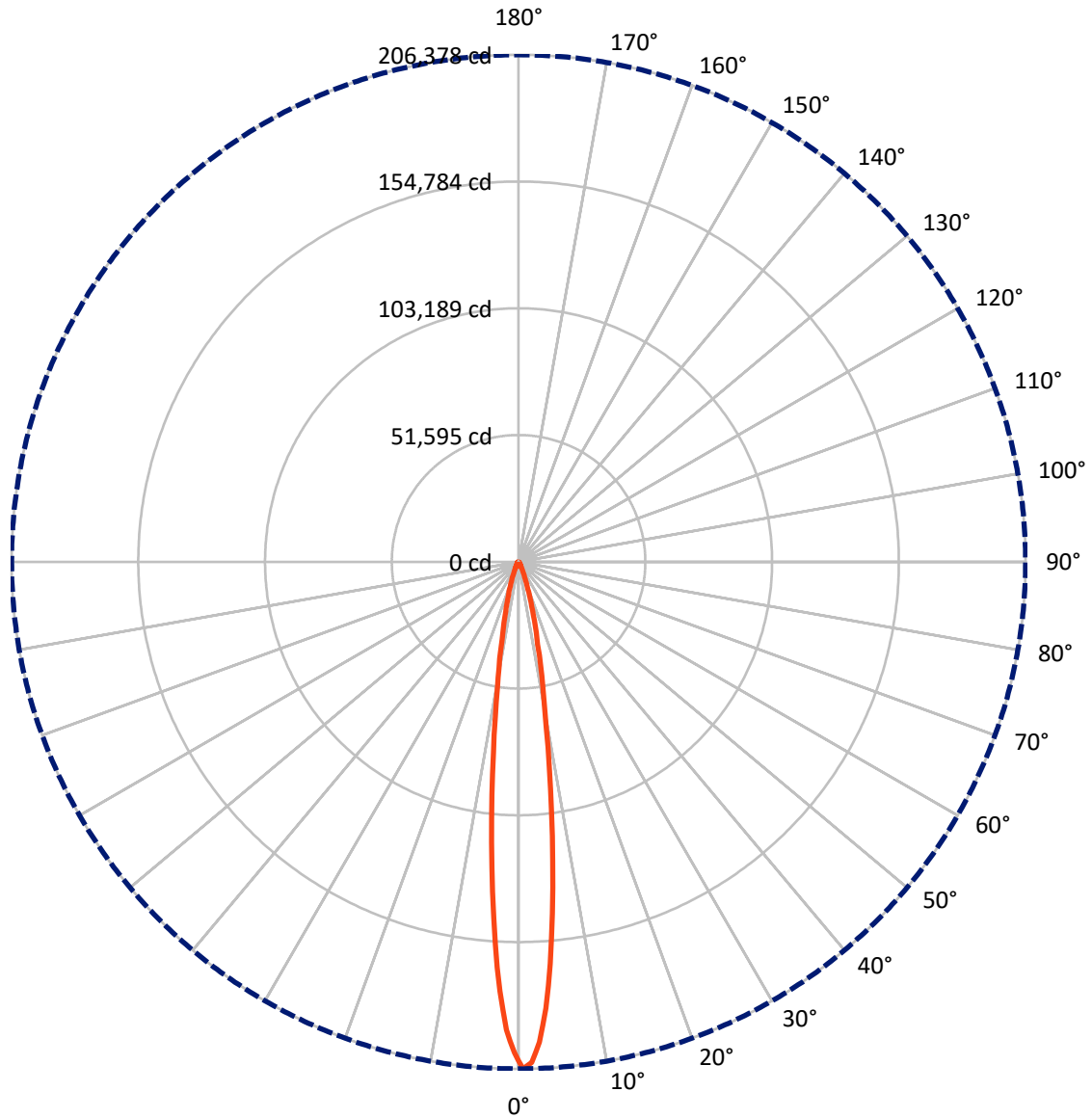
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 515.9 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	10641.3	0.0	10641.3
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10135.2	0.0	10135.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	20776.5	0.0	20776.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10488.6	50.5
10°-20°	6714.8	32.3
20°-30°	2018.3	9.7
30°-40°	657.2	3.2
40°-50°	382.4	1.8
50°-60°	254.0	1.2
60°-70°	152.9	0.7
70°-80°	78.6	0.4
80°-90°	29.9	0.1
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°	20776.5	100.0
0°-180°	20776.5	100.0

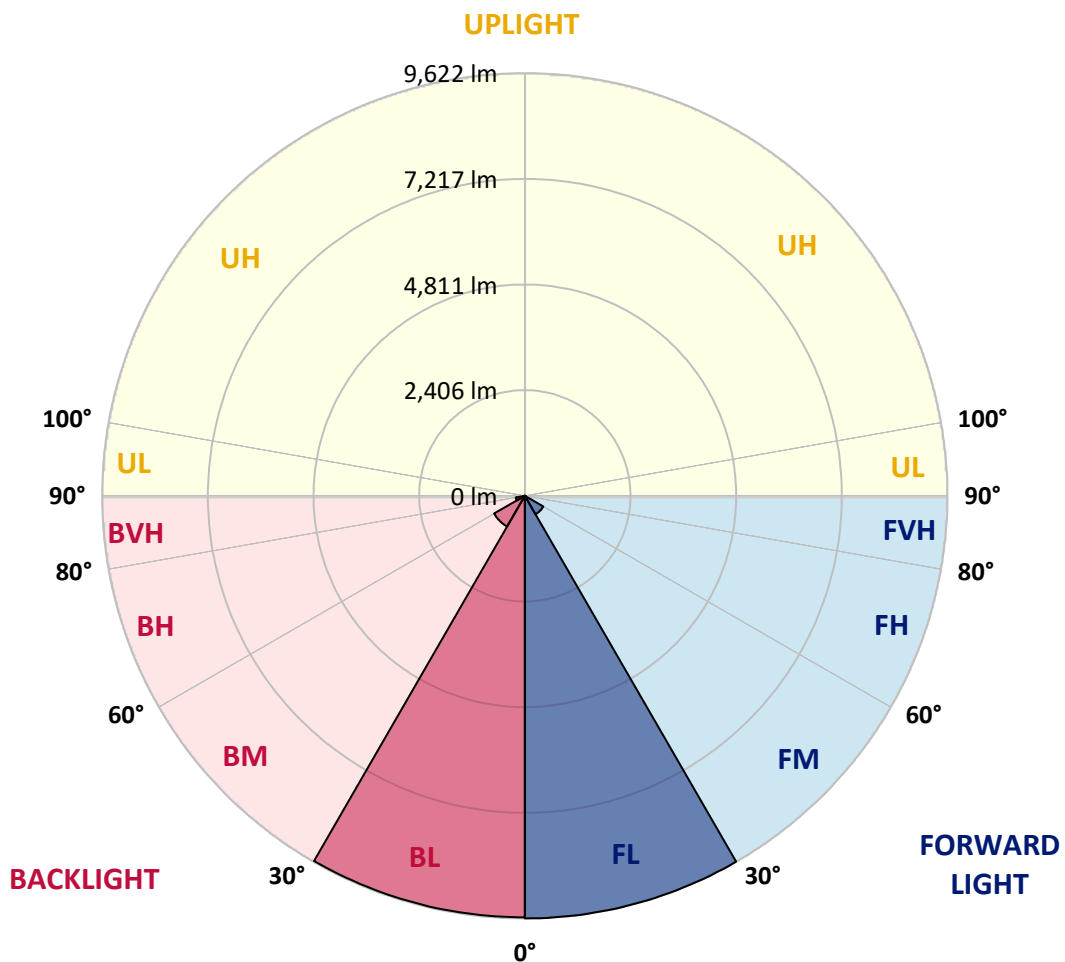


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9622.2	46.3			
FM (30°-60°)	485.6	2.3			
FH (60°-80°)	22.9	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9599.4	46.2	B5		
BM (30°-60°)	808.0	3.9	B1/1000		
BH (60°-80°)	208.6	1.0	B1/500		G0/660
BVH (80°-90°)	25.3	0.1			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°	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0
1°	203906.9	203284.6	201678.0	202820.7	203825.5	203533.5	203513.2	203404.6	203253.0	204443.2
2°	195756.0	195353.2	192977.2	193957.0	195384.9	194343.9	194995.7	194423.1	194434.5	195855.6
3°	182015.7	182235.2	178444.9	180225.8	182210.3	179687.2	180470.2	181941.0	180400.0	179936.1
4°	164157.0	162251.6	160181.1	161991.4	162505.1	161036.4	162480.2	164281.4	162140.7	162235.8
5°	143768.3	142360.8	139910.1	141027.9	139753.9	140217.8	142381.2	143123.4	141629.9	139749.4
6°	122804.9	121804.7	118740.7	120351.9	119899.3	119636.8	122368.1	120105.3	120919.9	119781.7
7°	102149.2	100280.1	98775.2	100318.5	100418.1	99628.3	103174.3	102762.4	101280.3	100936.3
8°	84632.2	82767.5	81493.5	82643.1	83394.4	82154.3	83822.0	84917.3	83758.7	83862.8
9°	68260.1	67932.0	66160.2	67662.7	68479.6	67151.3	68997.8	69393.8	68309.9	68837.2
10°	56047.3	55664.9	54250.6	54859.3	56212.5	54628.5	56400.3	56529.3	55664.9	55911.5
12.5°	34635.8	34481.9	34443.5	34531.7	34513.6	34794.2	35246.8	34730.9	34663.0	33809.9
15°	22386.8	22615.3	22380.0	22832.6	22898.2	23163.0	22886.9	22470.5	21676.2	21282.5
17.5°	13971.1	14263.0	14665.8	15328.8	15991.9	16068.8	15702.2	15213.4	14828.7	14407.8
20°	8037.8	8180.4	8119.3	8913.5	10628.8	11095.0	10622.0	10108.3	9644.4	9219.0
22.5°	4994.2	4942.2	5037.2	5304.2	5863.2	7304.6	6917.7	6404.0	6066.8	5716.1
25°	3061.7	3118.3	3082.1	3229.1	3480.3	4091.3	4179.6	3957.8	3785.8	3604.8
27.5°	1971.0	1971.0	1986.8	2068.3	2240.3	2219.9	2690.6	2518.6	2425.8	2337.6
30°	1369.0	1373.6	1373.6	1421.1	1459.6	1391.7	1513.9	1735.6	1692.6	1624.8
32.5°	1016.0	1029.6	1040.9	1065.8	1034.1	961.7	991.1	1249.1	1224.2	1199.3
35°	773.9	785.2	812.4	826.0	780.7	735.4	708.3	918.7	930.0	923.3
37.5°	563.5	570.2	620.0	672.1	620.0	579.3	563.5	706.0	760.3	753.5
40°	432.2	434.5	443.5	502.4	502.4	470.7	475.2	527.3	622.3	622.3
42.5°	371.1	371.1	380.2	371.1	373.4	407.3	418.6	425.4	527.3	527.3
45°	321.3	321.3	325.9	303.2	280.6	350.7	359.8	362.1	443.5	454.8
47.5°	269.3	269.3	278.3	248.9	237.6	278.3	303.2	310.0	382.4	391.5
50°	199.1	201.4	228.6	203.7	210.4	215.0	262.5	267.0	323.6	344.0
52.5°	133.5	133.5	138.0	158.4	183.3	176.5	212.7	228.6	258.0	285.1
55°	108.6	108.6	106.4	101.8	135.8	147.1	156.1	190.1	210.4	244.4
57.5°	74.7	79.2	72.4	83.7	88.3	110.9	117.7	149.4	160.7	205.9
60°	9.1	11.3	15.8	61.1	58.8	74.7	88.3	117.7	131.2	158.4
62.5°	2.3	2.3	4.5	11.3	40.7	49.8	70.1	81.5	95.0	122.2
65°	0.0	0.0	2.3	4.5	9.1	27.2	36.2	47.5	67.9	86.0
67.5°	0.0	0.0	2.3	4.5	4.5	11.3	18.1	29.4	36.2	63.4
70°	0.0	0.0	2.3	4.5	4.5	9.1	11.3	13.6	24.9	33.9
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	11.3	22.6
75°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	9.1	9.1
77.5°	0.0	0.0	2.3	4.5	9.1	11.3	13.6	11.3	6.8	6.8
80°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	13.6	6.8	4.5
82.5°	0.0	0.0	4.5	9.1	13.6	18.1	24.9	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	36.2	24.9	11.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	13.6	9.1	4.5	2.3
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):**

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
206378.0	0°	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0	206378.0
203069.7	1°	204488.5	204631.1	204164.9	204886.8	204633.3	203148.9	202657.8	201239.0
195020.6	2°	194423.1	195149.5	195185.7	195986.8	195975.5	194244.4	193708.1	192766.7
180877.5	3°	180329.9	181176.2	180413.6	181836.9	181409.3	179309.3	178763.9	178483.3
162987.1	4°	162500.5	162339.9	162077.4	161267.3	162265.2	160832.8	159753.4	158275.7
142243.1	5°	141958.0	141600.5	141089.0	140849.2	141591.4	140674.9	138455.0	135327.7
121840.9	6°	121990.2	120451.5	120376.8	120243.3	120318.0	117751.8	117905.7	115108.8
99752.8	7°	100807.3	101090.2	100513.1	101438.7	100732.6	98994.7	98324.9	96921.9
84319.9	8°	83731.5	83374.0	82932.7	84315.4	83091.1	81950.6	81169.9	80210.5
68923.2	9°	68794.2	68176.4	67728.4	67658.2	67848.3	65707.6	66142.1	65777.7
56047.3	10°	56067.7	55053.9	55300.6	55366.2	55158.0	53755.0	53768.6	54128.4
34375.6	12.5°	34253.4	33755.6	33880.0	33947.9	34371.1	33877.8	33180.8	32678.4
21674.0	15°	21529.2	21171.6	21902.5	22393.6	22294.0	21855.0	21526.9	21072.0
14407.8	17.5°	14274.3	14742.7	14745.0	15193.1	15238.3	14799.3	14545.9	14136.3
9370.6	20°	9336.7	9531.3	9936.4	10253.2	10436.5	10101.5	9798.3	9517.7
5842.8	22.5°	5842.8	6182.2	6435.7	6847.5	7015.0	6770.6	6555.6	6327.0
3647.8	25°	3586.7	3828.8	4039.3	4396.8	4625.4	4507.7	4310.8	4150.1
2355.7	27.5°	2391.9	2493.7	2597.8	2844.5	3082.1	3016.4	2937.2	2839.9
1661.0	30°	1685.9	1694.9	1805.8	1943.8	2102.2	2143.0	2106.8	2057.0
1219.7	32.5°	1242.3	1278.5	1330.6	1416.6	1522.9	1620.2	1602.1	1579.5
932.3	35°	959.5	1013.8	1056.8	1122.4	1179.0	1271.7	1287.6	1280.8
767.1	37.5°	783.0	830.5	873.5	911.9	959.5	1022.8	1072.6	1074.9
633.6	40°	649.4	692.4	749.0	778.4	812.4	859.9	921.0	925.5
536.3	42.5°	547.6	588.4	644.9	681.1	706.0	751.3	812.4	821.4
459.4	45°	470.7	495.6	554.4	597.4	622.3	651.7	717.3	726.4
396.0	47.5°	409.6	434.5	470.7	531.8	554.4	581.6	633.6	649.4
350.7	50°	359.8	384.7	416.4	470.7	504.6	527.3	570.2	592.9
305.5	52.5°	319.1	344.0	377.9	420.9	459.4	479.7	520.5	549.9
248.9	55°	267.0	310.0	334.9	373.4	425.4	443.5	475.2	513.7
217.2	57.5°	233.1	269.3	305.5	337.2	389.2	411.8	443.5	479.7
172.0	60°	196.9	230.8	273.8	301.0	350.7	380.2	414.1	448.1
131.2	62.5°	156.1	201.4	230.8	269.3	316.8	355.3	382.4	416.4
101.8	65°	115.4	165.2	199.1	239.9	285.1	325.9	348.5	384.7
72.4	67.5°	83.7	129.0	169.7	208.2	251.2	291.9	314.5	346.2
45.3	70°	65.6	95.0	140.3	174.2	219.5	253.4	278.3	298.7
29.4	72.5°	38.5	72.4	113.1	151.6	192.3	215.0	233.1	251.2
13.6	75°	24.9	56.6	92.8	126.7	156.1	176.5	192.3	208.2
6.8	77.5°	15.8	40.7	74.7	106.4	119.9	144.8	158.4	167.5
4.5	80°	9.1	31.7	65.6	86.0	97.3	113.1	126.7	138.0
4.5	82.5°	6.8	27.2	54.3	72.4	72.4	90.5	97.3	97.3
2.3	85°	4.5	22.6	43.0	67.9	54.3	67.9	63.4	63.4
2.3	87.5°	4.5	15.8	20.4	29.4	24.9	29.4	29.4	33.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
206378.0  
199772.6  
190508.3  
174901.2  
155763.9  
134818.6  
114760.3  
95324.3  
78612.9  
63926.7  
51679.9  
32372.9  
20839.0  
14034.5  
9420.4  
6204.8  
4057.4  
2783.4  
2023.0  
1561.4  
1258.2  
1059.0  
918.7  
814.6  
724.1  
651.7  
595.1  
549.9  
515.9  
482.0  
457.1  
432.2  
391.5  
348.5  
305.5  
255.7  
208.2  
162.9  
124.5  
90.5  
61.1  
33.9  
0.0

(END OF REPORT)