

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: P638179

Luminaire Tested: **IFLD-L-SA7B-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638179  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27392.3 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

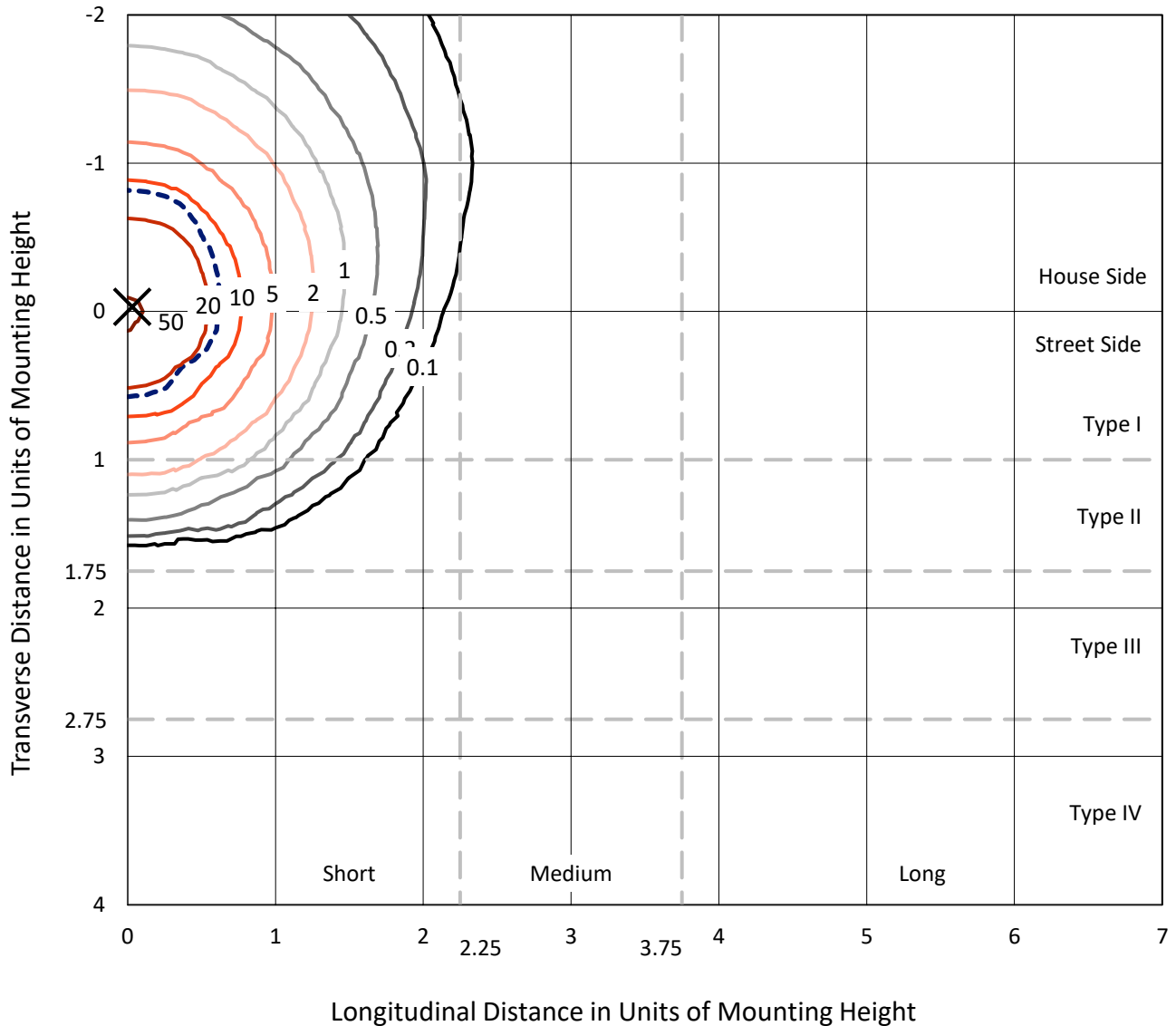
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

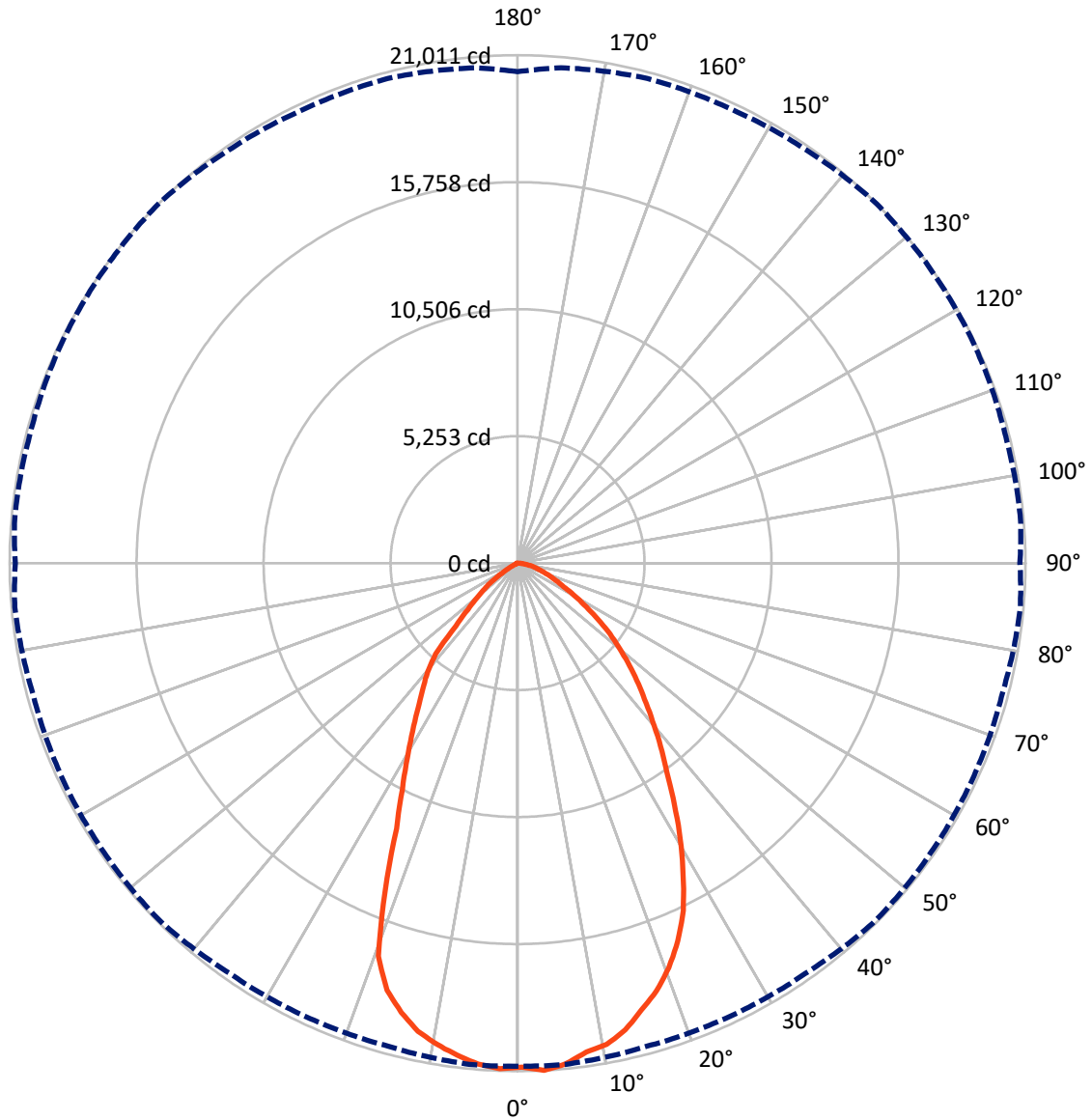
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.1 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
<b>House Side</b>	Lumens	16223.1	0.0	16223.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11169.2	0.0	11169.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27392.3	0.0	27392.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1955.0	7.1
10°-20°	5242.4	19.1
20°-30°	6393.4	23.3
30°-40°	5837.1	21.3
40°-50°	4218.3	15.4
50°-60°	2303.2	8.4
60°-70°	952.3	3.5
70°-80°	385.7	1.4
80°-90°	104.9	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°	27392.3	100.0
0°-180°	27392.3	100.0



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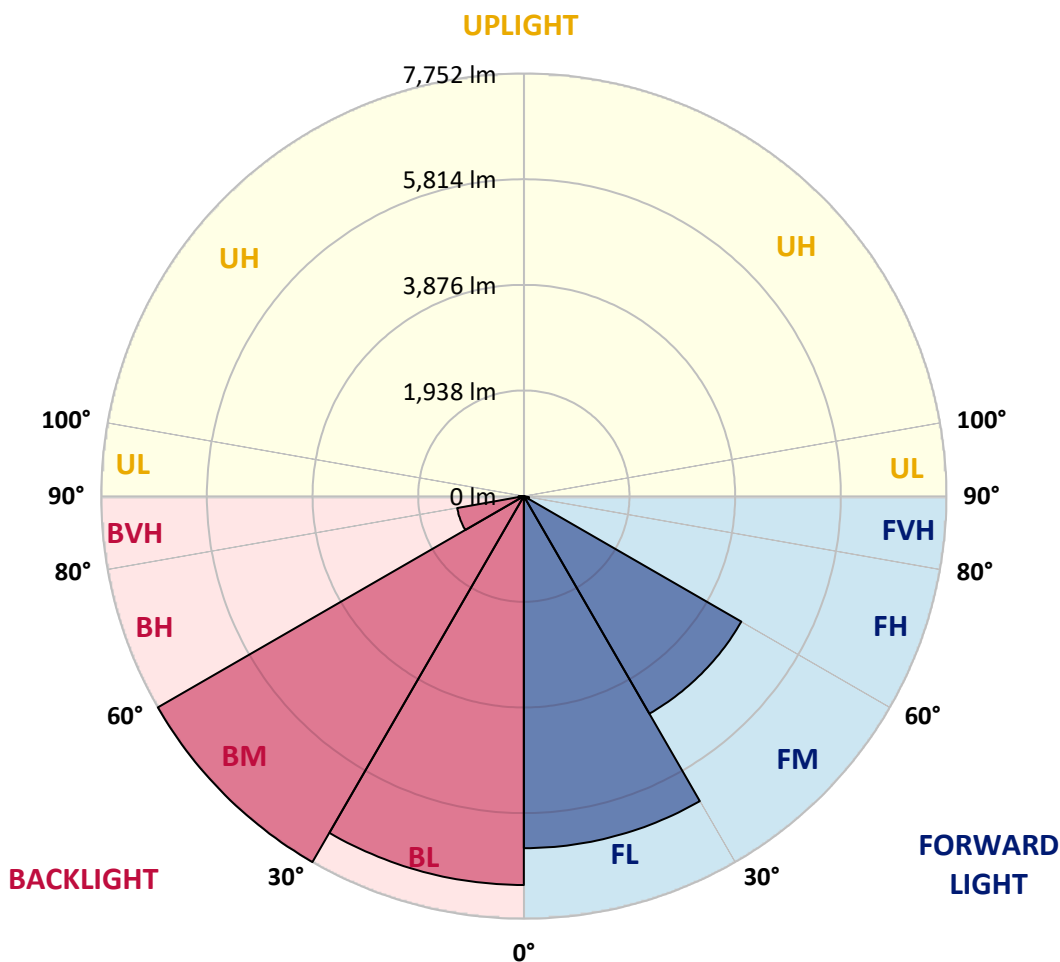
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6457.4	23.6			
FM (30°-60°)	4606.9	16.8			
FH (60°-80°)	96.5	0.4			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	7133.3	26.0	B5		
BM (30°-60°)	7751.8	28.3	B4/8500		
BH (60°-80°)	1241.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	96.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4
2.5°	20806.8	20833.8	20687.3	20702.7	20729.7	20926.4	20876.3	20830.0	20764.4	20876.3
5°	20779.8	20795.3	20641.0	20587.0	20610.1	20787.6	20625.5	20625.5	20610.1	20590.8
7.5°	20571.5	20579.3	20459.7	20363.2	20425.0	20506.0	20386.4	20444.2	20359.4	20425.0
10°	20259.1	20208.9	20066.2	20039.2	20108.7	20185.8	20104.8	20158.8	20081.7	20131.8
12.5°	19800.1	19722.9	19607.2	19572.5	19692.1	19796.2	19730.6	19699.8	19599.5	19722.9
15°	18029.5	17971.7	18234.0	18693.0	19105.7	19194.4	19125.0	19155.9	18947.6	18982.3
17.5°	14839.4	14731.4	15013.0	16100.8	17651.5	18469.3	18407.5	18207.0	17898.4	17967.8
20°	13485.5	13454.6	13423.8	13682.2	14766.1	17246.5	17331.3	16822.1	16382.4	16286.0
22.5°	12721.7	12710.2	12679.3	12737.2	13022.6	14615.7	15587.8	15117.2	14824.0	14797.0
25°	12023.5	12004.2	11911.7	11985.0	11985.0	12077.5	13323.5	13608.9	13350.5	13319.6
27.5°	11313.8	11279.1	11263.6	11298.3	11120.9	10496.0	10812.3	12204.8	12069.8	12077.5
30°	10546.1	10534.6	10492.1	10565.4	10017.7	9242.3	9041.8	10931.9	10958.9	10951.2
32.5°	9404.4	9454.5	9647.4	9728.4	8825.7	8185.4	7849.8	9458.4	10010.0	9998.4
35°	6831.5	6831.5	7460.2	8629.0	7734.1	7251.9	7070.6	8019.5	9072.6	9111.2
37.5°	5616.4	5635.7	5759.1	6291.4	6673.3	6503.6	6449.6	6750.5	7869.1	7930.8
40°	5053.2	5053.2	5053.2	4833.3	4821.8	5859.4	5828.5	5732.1	6796.7	6931.8
42.5°	4540.2	4551.7	4559.5	4004.0	3695.4	5064.8	4995.3	4848.8	5836.3	5994.4
45°	4011.7	4031.0	4054.1	3348.2	3213.2	3645.2	4227.7	4065.7	4887.3	5091.8
47.5°	2449.5	2480.3	3004.9	2839.1	2854.5	2812.0	3448.5	3421.5	4007.8	4297.1
50°	1654.8	1666.4	1716.5	1801.4	2449.5	2210.3	2441.7	2831.3	3043.5	3483.2
52.5°	1388.7	1408.0	1284.5	1168.8	1608.5	1728.1	1705.0	2102.3	2187.1	2731.0
55°	975.9	1037.6	979.8	968.2	914.2	1342.4	1292.2	1616.3	1670.3	2075.3
57.5°	100.3	115.7	200.6	721.3	597.9	759.9	921.9	1184.2	1238.2	1531.4
60°	7.7	7.7	19.3	100.3	435.9	455.2	636.5	729.0	833.2	1068.5
62.5°	0.0	3.9	7.7	15.4	69.4	243.0	320.2	381.9	501.5	690.5
65°	0.0	0.0	3.9	11.6	15.4	92.6	123.4	200.6	273.9	428.2
67.5°	0.0	0.0	3.9	7.7	11.6	23.1	42.4	73.3	146.6	243.0
70°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	46.3	65.6	131.2
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	23.1	30.9	46.3	65.6
75°	0.0	0.0	3.9	3.9	11.6	23.1	19.3	23.1	30.9	42.4
77.5°	0.0	0.0	3.9	7.7	11.6	23.1	19.3	23.1	23.1	27.0
80°	0.0	0.0	3.9	7.7	15.4	27.0	23.1	23.1	19.3	19.3
82.5°	0.0	0.0	3.9	11.6	15.4	34.7	34.7	30.9	15.4	11.6
85°	0.0	0.0	7.7	15.4	23.1	38.6	38.6	30.9	11.6	7.7
87.5°	0.0	0.0	7.7	11.6	19.3	27.0	38.6	30.9	11.6	3.9
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°
20845.4	0°	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4	20845.4
20779.8	2.5°	20884.0	20860.8	20938.0	20968.9	21011.3	20849.3	20749.0	20752.8	20567.7
20544.5	5°	20668.0	20671.8	20772.1	20764.4	20806.8	20718.1	20679.6	20614.0	20452.0
20247.5	7.5°	20394.1	20359.4	20455.8	20529.1	20421.1	20482.8	20394.1	20425.0	20328.5
19985.2	10°	20181.9	20100.9	20189.7	20239.8	20243.7	20181.9	20097.1	20016.1	19981.4
19576.3	12.5°	19711.3	19607.2	19757.6	19827.1	19815.5	19695.9	19599.5	19618.8	19506.9
18858.9	15°	19063.3	19067.2	19175.2	19240.7	19179.0	19152.0	19159.7	19113.4	19017.0
17867.5	17.5°	18071.9	18129.8	18415.3	18573.4	18608.1	18554.1	18527.1	18473.1	18376.7
16286.0	20°	16421.0	16768.1	17277.3	17767.2	17863.6	17848.2	17751.8	17728.6	17674.6
14719.9	22.5°	14970.6	15229.0	15819.2	16583.0	16976.4	17015.0	16899.3	16864.6	16806.7
13319.6	25°	13470.1	13747.8	14280.1	15109.5	15923.4	16089.2	16070.0	15965.8	15904.1
12077.5	27.5°	12204.8	12482.6	12964.7	13713.1	14584.9	15117.2	15167.3	15001.4	14997.6
10970.5	30°	11063.0	11444.9	11811.4	12420.8	13265.6	14064.1	14149.0	14033.2	14044.8
9956.0	32.5°	10168.1	10484.4	10796.9	11205.8	11907.8	12837.4	13169.2	13061.2	13018.7
9111.2	35°	9253.9	9469.9	9790.1	10164.3	10642.6	11564.5	12139.3	12058.2	12015.8
7969.4	37.5°	8212.4	8582.7	8814.2	9234.6	9608.8	10341.7	11151.8	11140.2	11051.5
6997.3	40°	7143.9	7533.5	7884.5	8308.9	8598.2	9180.6	10079.4	10075.5	10087.1
5990.6	42.5°	6175.7	6534.4	6958.8	7421.6	7699.4	8123.7	9088.0	9142.1	9207.6
5161.2	45°	5300.1	5624.1	6017.6	6580.7	6916.3	7159.3	8015.7	8262.6	8258.7
4420.6	47.5°	4513.2	4817.9	5149.6	5697.4	6125.6	6345.4	7055.2	7406.2	7383.1
3626.0	50°	3788.0	4058.0	4405.2	4802.5	5377.2	5570.1	6098.6	6561.4	6526.7
2889.2	52.5°	3047.4	3421.5	3714.7	4077.3	4682.9	4871.9	5280.8	5732.1	5705.1
2167.9	55°	2376.2	2738.8	3093.6	3406.1	3915.3	4196.9	4490.0	4952.9	4945.2
1697.3	57.5°	1797.6	2194.9	2530.5	2827.5	3232.5	3579.7	3815.0	4235.4	4289.4
1161.1	60°	1330.8	1635.5	1998.1	2329.9	2650.0	3008.8	3166.9	3579.7	3602.8
794.6	62.5°	906.5	1242.1	1597.0	1897.8	2137.0	2507.3	2650.0	2989.5	3031.9
509.2	65°	628.8	844.8	1249.8	1465.8	1759.0	2075.3	2218.0	2488.0	2572.9
293.2	67.5°	416.6	601.8	975.9	1172.7	1462.0	1678.0	1859.3	2079.1	2171.7
185.2	70°	227.6	443.6	698.2	925.8	1176.5	1384.8	1562.2	1739.7	1820.7
84.9	72.5°	154.3	297.0	486.0	732.9	948.9	1153.4	1311.5	1442.7	1446.5
50.1	75°	77.1	200.6	370.3	567.0	740.6	941.2	1083.9	1161.1	1068.5
30.9	77.5°	46.3	146.6	300.9	455.2	601.8	759.9	840.9	883.3	732.9
23.1	80°	27.0	104.1	235.3	362.6	416.6	559.3	636.5	648.0	489.9
15.4	82.5°	19.3	77.1	185.2	266.2	254.6	393.5	478.3	462.9	312.4
11.6	85°	11.6	54.0	115.7	165.9	154.3	258.4	277.7	285.4	181.3
7.7	87.5°	7.7	30.9	61.7	88.7	73.3	111.9	111.9	135.0	88.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
20845.4
20328.5
20413.4
20166.5
19827.1
19410.5
18920.6
18334.2
17551.2
16791.3
15838.5
14989.9
13987.0
13022.6
11958.0
11124.8
10087.1
9172.9
8266.4
7390.8
6557.6
5763.0
4964.5
4266.3
3637.5
3039.6
2553.6
2160.1
1789.8
1411.8
999.1
705.9
459.0
289.3
165.9
77.1
0.0

(END OF REPORT)