

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: P636845

Luminaire Tested: **IFLD-L-SA7B-950-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636845
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-950-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19793.6 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

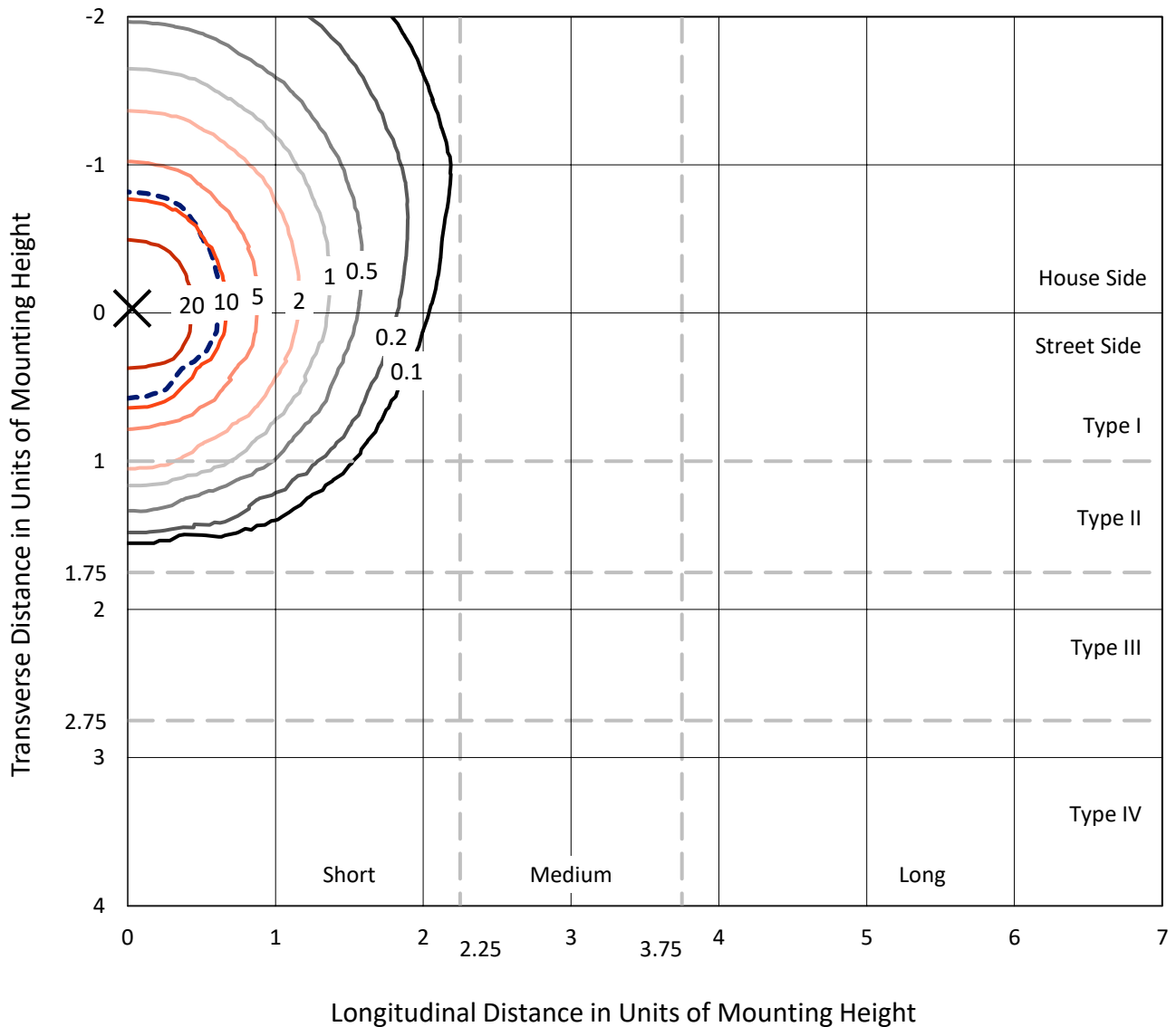
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

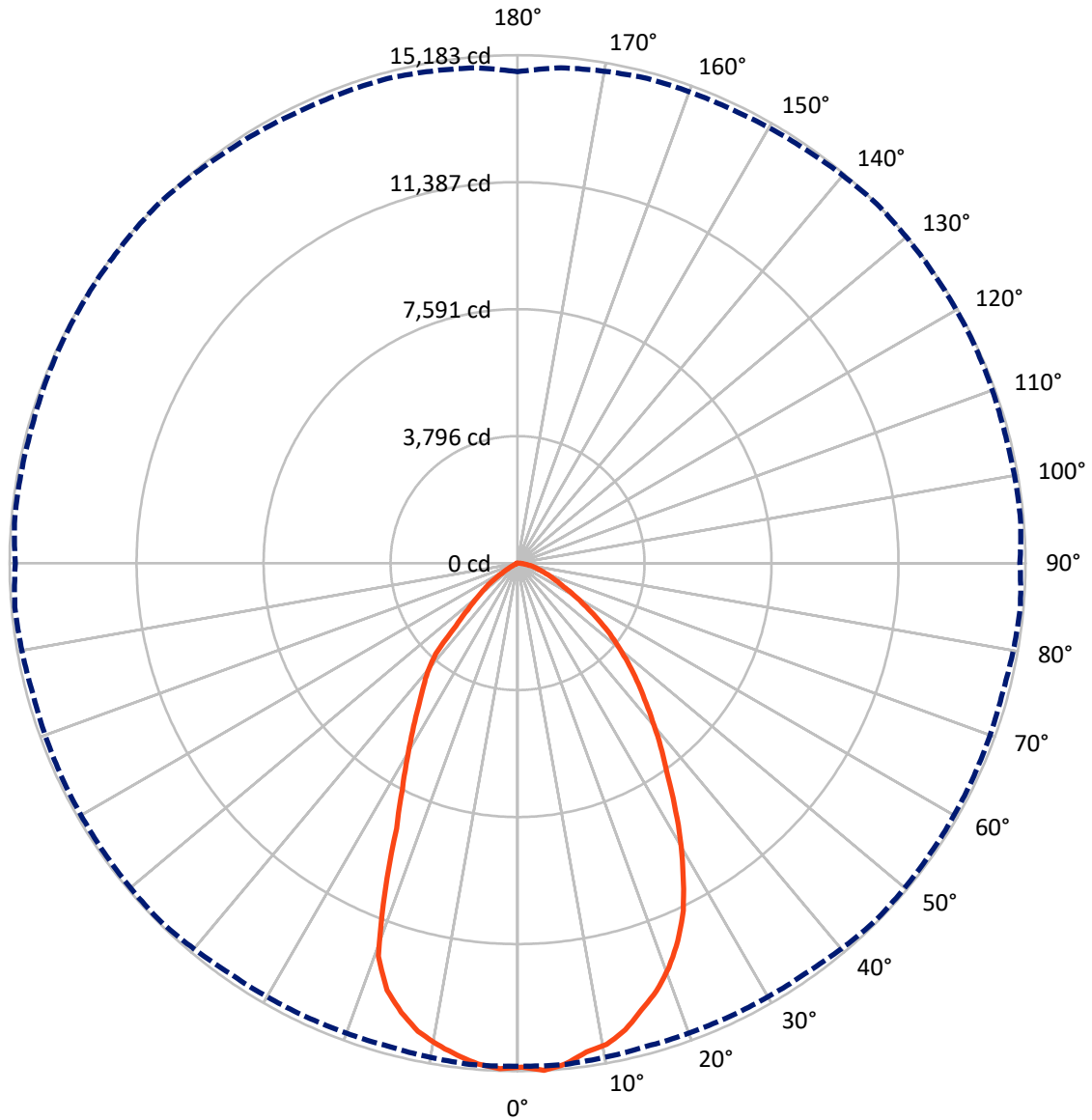
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.7 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	11722.8	0.0	11722.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8070.8	0.0	8070.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	19793.6	0.0	19793.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.7	7.1
10°-20°	3788.1	19.1
20°-30°	4619.8	23.3
30°-40°	4217.9	21.3
40°-50°	3048.2	15.4
50°-60°	1664.3	8.4
60°-70°	688.1	3.5
70°-80°	278.7	1.4
80°-90°	75.8	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°	19793.6	100.0
0°-180°	19793.6	100.0



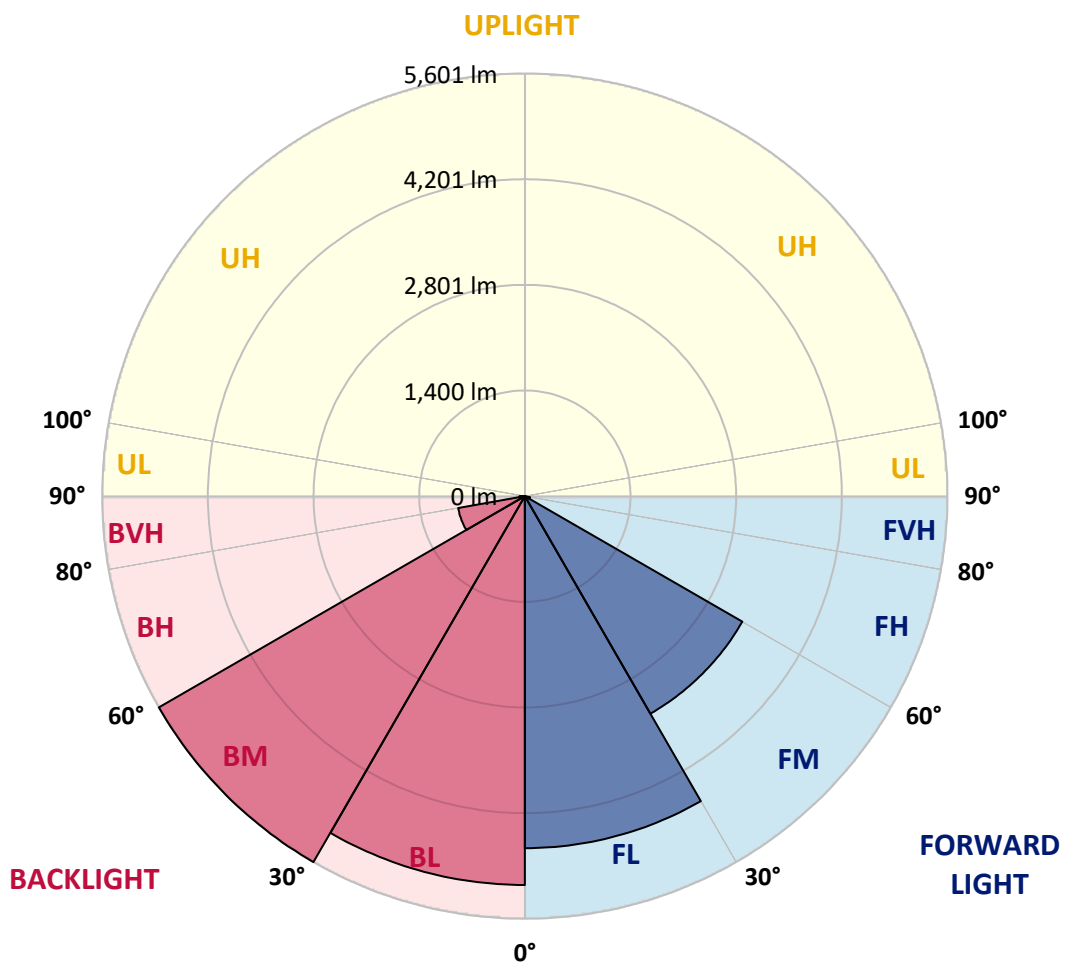
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4666.1	23.6			
FM	(30°-60°)	3328.9	16.8			
FH	(60°-80°)	69.7	0.4			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	5154.5	26.0	B5		
BM	(30°-60°)	5601.4	28.3	B4/8500		
BH	(60°-80°)	897.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	69.7	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9
2.5°	15035.0	15054.5	14948.6	14959.8	14979.3	15121.4	15085.2	15051.8	15004.4	15085.2
5°	15015.5	15026.7	14915.2	14876.1	14892.9	15021.1	14904.0	14904.0	14892.9	14878.9
7.5°	14865.0	14870.6	14784.2	14714.5	14759.1	14817.6	14731.2	14773.0	14711.7	14759.1
10°	14639.2	14603.0	14499.9	14480.3	14530.5	14586.3	14527.7	14566.7	14511.0	14547.2
12.5°	14307.5	14251.8	14168.2	14143.1	14229.5	14304.7	14257.4	14235.1	14162.6	14251.8
15°	13028.1	12986.3	13175.9	13507.6	13805.8	13869.9	13819.7	13842.0	13691.5	13716.6
17.5°	10723.0	10644.9	10848.4	11634.4	12755.0	13345.9	13301.3	13156.3	12933.4	12983.5
20°	9744.6	9722.3	9700.0	9886.8	10670.0	12462.3	12523.6	12155.7	11837.9	11768.2
22.5°	9192.7	9184.4	9162.1	9203.9	9410.1	10561.3	11263.7	10923.7	10711.8	10692.3
25°	8688.2	8674.3	8607.4	8660.3	8660.3	8727.2	9627.5	9833.8	9647.1	9624.8
27.5°	8175.3	8150.2	8139.1	8164.2	8036.0	7584.4	7813.0	8819.2	8721.7	8727.2
30°	7620.6	7612.3	7581.6	7634.6	7238.8	6678.5	6533.6	7899.4	7918.9	7913.3
32.5°	6795.6	6831.8	6971.2	7029.7	6377.5	5914.8	5672.3	6834.6	7233.2	7224.8
35°	4936.4	4936.4	5390.8	6235.3	5588.7	5240.2	5109.2	5794.9	6555.9	6583.7
37.5°	4058.4	4072.3	4161.5	4546.2	4822.1	4699.5	4660.5	4877.9	5686.2	5730.8
40°	3651.4	3651.4	3651.4	3492.6	3484.2	4234.0	4211.7	4142.0	4911.3	5008.9
42.5°	3280.7	3289.1	3294.7	2893.3	2670.3	3659.8	3609.6	3503.7	4217.3	4331.6
45°	2898.9	2912.8	2929.5	2419.4	2321.9	2634.1	3054.9	2937.9	3531.6	3679.3
47.5°	1770.0	1792.3	2171.4	2051.5	2062.6	2032.0	2491.9	2472.4	2896.1	3105.1
50°	1195.8	1204.1	1240.4	1301.7	1770.0	1597.2	1764.4	2045.9	2199.2	2517.0
52.5°	1003.5	1017.4	928.2	844.6	1162.3	1248.7	1232.0	1519.1	1580.4	1973.5
55°	705.2	749.8	708.0	699.6	660.6	970.0	933.8	1167.9	1206.9	1499.6
57.5°	72.5	83.6	144.9	521.2	432.0	549.1	666.2	855.7	894.7	1106.6
60°	5.6	5.6	13.9	72.5	315.0	328.9	459.9	526.8	602.1	772.1
62.5°	0.0	2.8	5.6	11.1	50.2	175.6	231.4	275.9	362.4	498.9
65°	0.0	0.0	2.8	8.4	11.1	66.9	89.2	144.9	197.9	309.4
67.5°	0.0	0.0	2.8	5.6	8.4	16.7	30.7	53.0	105.9	175.6
70°	0.0	0.0	2.8	5.6	8.4	13.9	22.3	33.4	47.4	94.8
72.5°	0.0	0.0	2.8	2.8	5.6	13.9	16.7	22.3	33.4	47.4
75°	0.0	0.0	2.8	2.8	8.4	16.7	13.9	16.7	22.3	30.7
77.5°	0.0	0.0	2.8	5.6	8.4	16.7	13.9	16.7	16.7	19.5
80°	0.0	0.0	2.8	5.6	11.1	19.5	16.7	16.7	13.9	13.9
82.5°	0.0	0.0	2.8	8.4	11.1	25.1	25.1	22.3	11.1	8.4
85°	0.0	0.0	5.6	11.1	16.7	27.9	27.9	22.3	8.4	5.6
87.5°	0.0	0.0	5.6	8.4	13.9	19.5	27.9	22.3	8.4	2.8
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°
15062.9	0°	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9	15062.9
15015.5	2.5°	15090.8	15074.0	15129.8	15152.1	15182.8	15065.7	14993.2	14996.0	14862.2
14845.5	5°	14934.7	14937.5	15009.9	15004.4	15035.0	14970.9	14943.0	14895.7	14778.6
14630.9	7.5°	14736.8	14711.7	14781.4	14834.3	14756.3	14800.9	14736.8	14759.1	14689.4
14441.3	10°	14583.5	14524.9	14589.0	14625.3	14628.1	14583.5	14522.2	14463.6	14438.5
14145.9	12.5°	14243.4	14168.2	14276.9	14327.0	14318.7	14232.3	14162.6	14176.5	14095.7
13627.4	15°	13775.1	13777.9	13856.0	13903.4	13858.8	13839.2	13844.8	13811.4	13741.7
12911.1	17.5°	13058.8	13100.6	13306.9	13421.1	13446.2	13407.2	13387.7	13348.7	13279.0
11768.2	20°	11865.8	12116.7	12484.6	12838.6	12908.3	12897.1	12827.4	12810.7	12771.7
10636.6	22.5°	10817.7	11004.5	11431.0	11982.9	12267.2	12295.1	12211.4	12186.3	12144.5
9624.8	25°	9733.5	9934.2	10318.8	10918.1	11506.2	11626.1	11612.1	11536.9	11492.3
8727.2	27.5°	8819.2	9019.9	9368.3	9909.1	10539.0	10923.7	10959.9	10840.0	10837.3
7927.3	30°	7994.2	8270.1	8534.9	8975.3	9585.7	10162.7	10224.0	10140.4	10148.8
7194.2	32.5°	7347.5	7576.0	7801.8	8097.3	8604.6	9276.3	9516.1	9438.0	9407.3
6583.7	35°	6686.9	6843.0	7074.3	7344.7	7690.3	8356.5	8771.8	8713.3	8682.6
5758.7	37.5°	5934.3	6201.9	6369.1	6672.9	6943.3	7472.9	8058.3	8049.9	7985.8
5056.3	40°	5162.2	5443.7	5697.4	6004.0	6213.0	6633.9	7283.4	7280.6	7288.9
4328.8	42.5°	4462.6	4721.8	5028.4	5362.9	5563.6	5870.2	6567.0	6606.0	6653.4
3729.5	45°	3829.8	4064.0	4348.3	4755.2	4997.7	5173.3	5792.1	5970.5	5967.7
3194.3	47.5°	3261.2	3481.4	3721.1	4116.9	4426.3	4585.2	5098.1	5351.7	5335.0
2620.1	50°	2737.2	2932.3	3183.2	3470.3	3885.6	4024.9	4406.8	4741.3	4716.2
2087.7	52.5°	2202.0	2472.4	2684.2	2946.2	3383.9	3520.4	3815.9	4142.0	4122.5
1566.5	55°	1717.0	1979.0	2235.5	2461.2	2829.2	3032.6	3244.5	3579.0	3573.4
1226.4	57.5°	1298.9	1586.0	1828.5	2043.1	2335.8	2586.7	2756.7	3060.5	3099.5
839.0	60°	961.6	1181.8	1443.9	1683.6	1914.9	2174.1	2288.4	2586.7	2603.4
574.2	62.5°	655.0	897.5	1154.0	1371.4	1544.2	1811.8	1914.9	2160.2	2190.9
367.9	65°	454.3	610.4	903.1	1059.2	1271.0	1499.6	1602.7	1797.8	1859.2
211.8	67.5°	301.0	434.8	705.2	847.4	1056.4	1212.5	1343.5	1502.4	1569.3
133.8	70°	164.5	320.5	504.5	669.0	850.1	1000.7	1128.9	1257.1	1315.6
61.3	72.5°	111.5	214.6	351.2	529.6	685.7	833.4	947.7	1042.5	1045.3
36.2	75°	55.7	144.9	267.6	409.7	535.2	680.1	783.2	839.0	772.1
22.3	77.5°	33.4	105.9	217.4	328.9	434.8	549.1	607.6	638.3	529.6
16.7	80°	19.5	75.3	170.0	262.0	301.0	404.2	459.9	468.3	354.0
11.1	82.5°	13.9	55.7	133.8	192.3	184.0	284.3	345.6	334.5	225.8
8.4	85°	8.4	39.0	83.6	119.9	111.5	186.8	200.7	206.3	131.0
5.6	87.5°	5.6	22.3	44.6	64.1	53.0	80.8	80.8	97.6	64.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15062.9
14689.4
14750.7
14572.3
14327.0
14026.0
13672.0
13248.3
12682.5
12133.4
11444.9
10831.7
10107.0
9410.1
8640.8
8038.7
7288.9
6628.3
5973.3
5340.6
4738.5
4164.3
3587.3
3082.8
2628.5
2196.4
1845.2
1560.9
1293.3
1020.2
721.9
510.1
331.7
209.1
119.9
55.7
0.0

(END OF REPORT)