

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: P636759

Luminaire Tested: **IFLD-L-SA7C-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21823.1 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

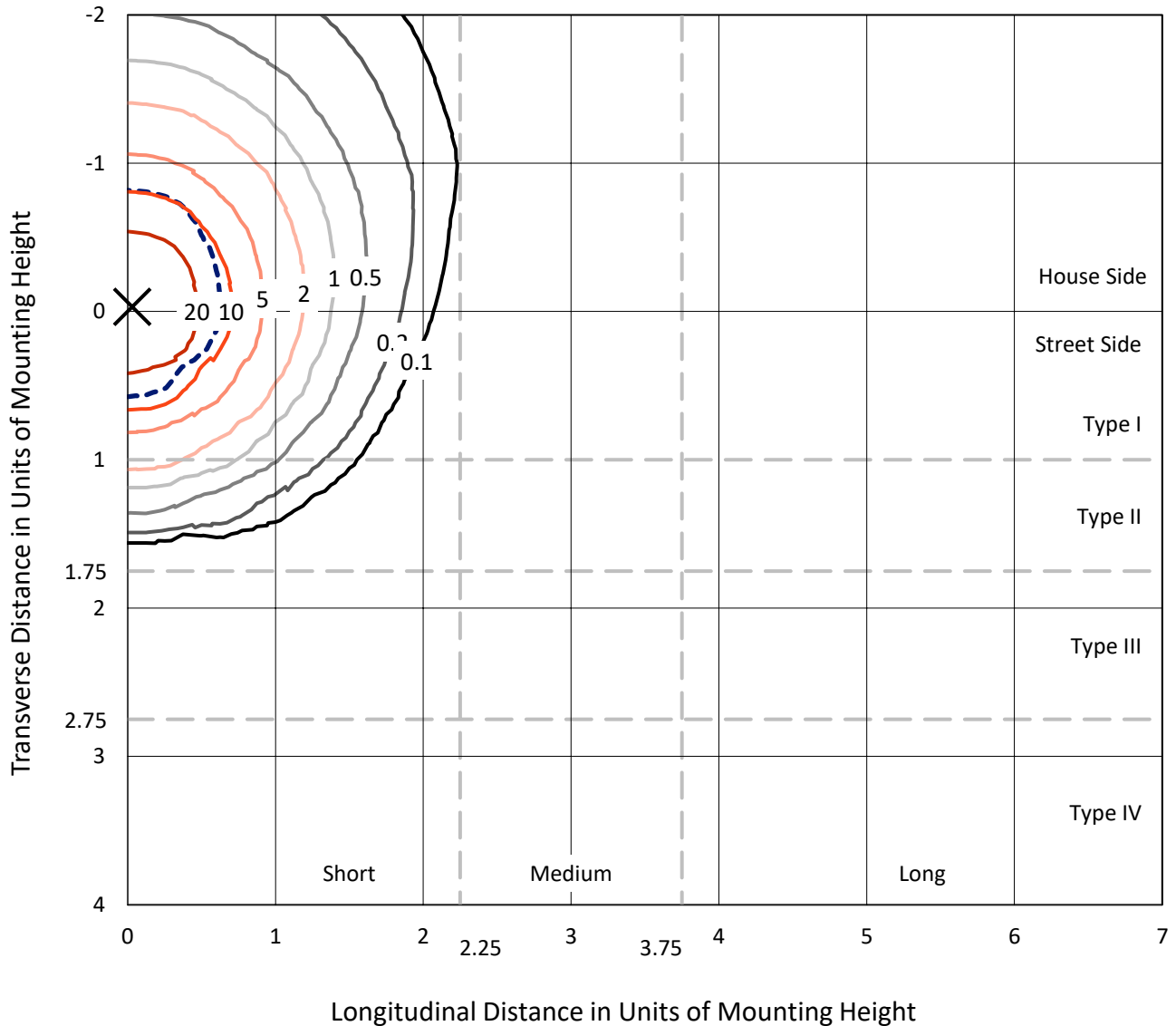
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

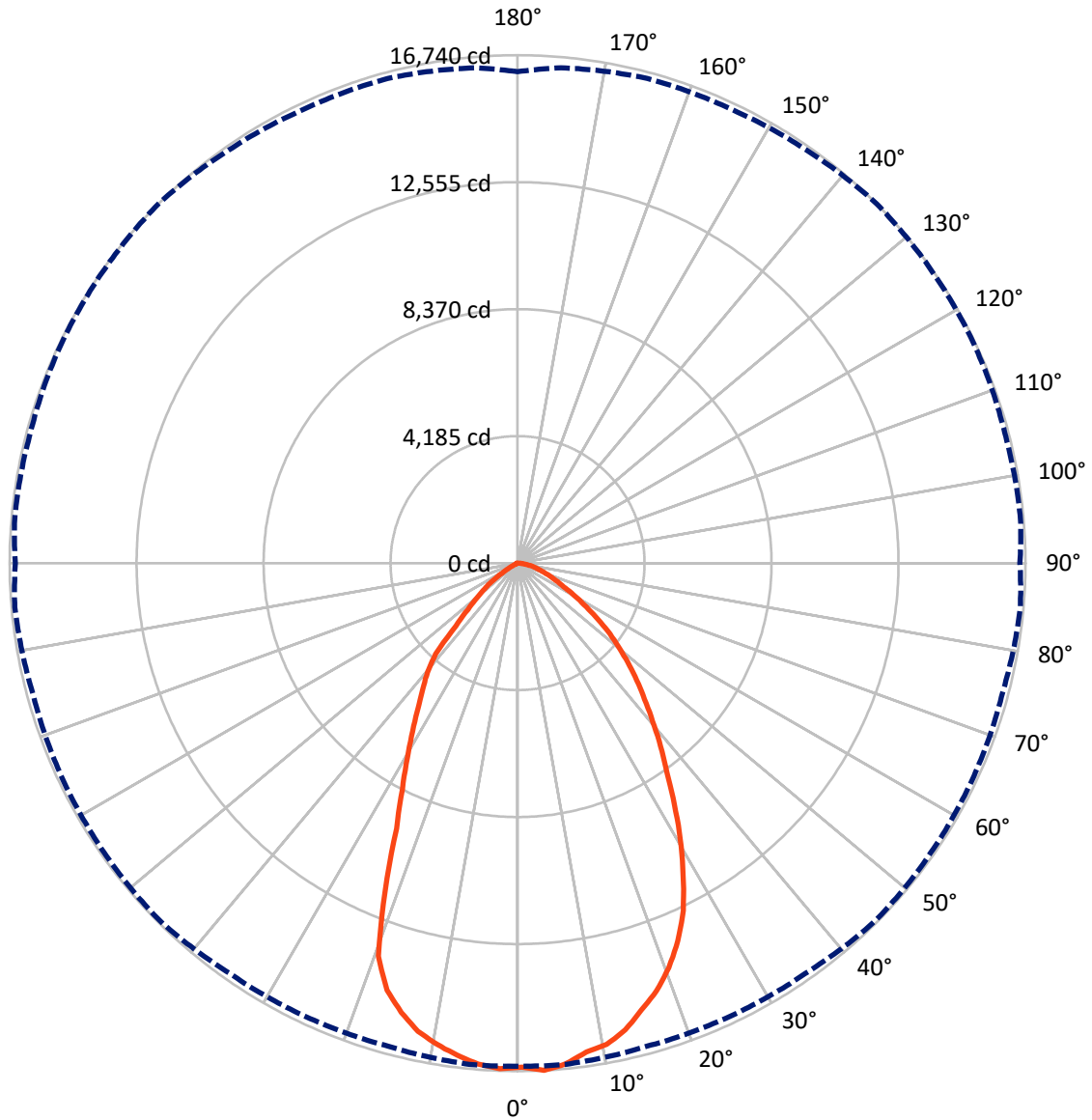
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.5 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	12924.8	0.0	12924.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8898.3	0.0	8898.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	21823.1	0.0	21823.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1557.5	7.1
10°-20°	4176.5	19.1
20°-30°	5093.5	23.3
30°-40°	4650.3	21.3
40°-50°	3360.7	15.4
50°-60°	1835.0	8.4
60°-70°	758.7	3.5
70°-80°	307.3	1.4
80°-90°	83.6	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°	21823.1	100.0
0°-180°	21823.1	100.0



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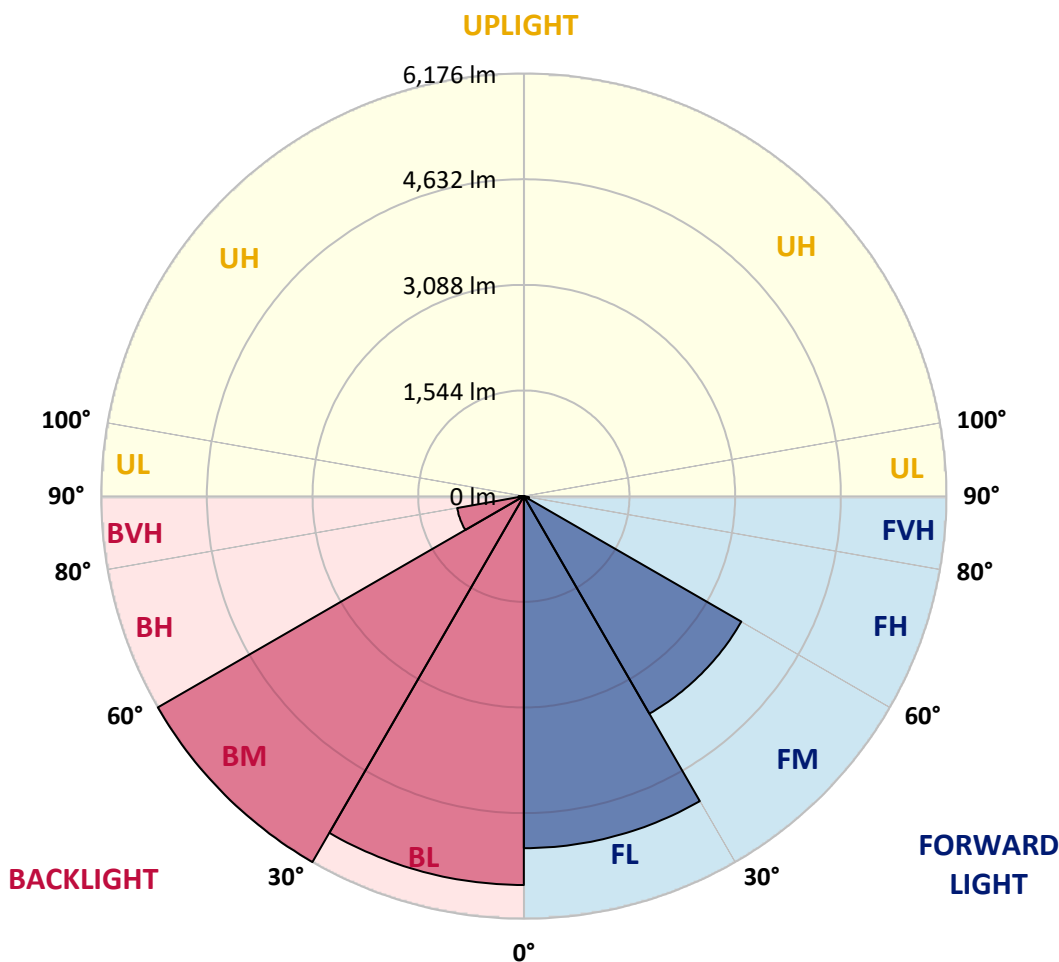
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5144.5	23.6			
FM (30°-60°)	3670.2	16.8			
FH (60°-80°)	76.9	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	5683.0	26.0	B5		
BM (30°-60°)	6175.8	28.3	B4/8500		
BH (60°-80°)	989.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	76.9	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°	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3
2.5°	16576.6	16598.1	16481.3	16493.6	16515.1	16671.8	16631.9	16595.0	16542.8	16631.9
5°	16555.1	16567.4	16444.4	16401.4	16419.9	16561.2	16432.1	16432.1	16419.9	16404.5
7.5°	16389.1	16395.3	16300.0	16223.2	16272.3	16336.9	16241.6	16287.7	16220.1	16272.3
10°	16140.2	16100.2	15986.5	15965.0	16020.3	16081.8	16017.3	16060.3	15998.8	16038.8
12.5°	15774.5	15713.0	15620.8	15593.2	15688.4	15771.4	15719.2	15694.6	15614.7	15713.0
15°	14363.9	14317.8	14526.8	14892.5	15221.3	15292.0	15236.7	15261.3	15095.3	15123.0
17.5°	11822.4	11736.4	11960.7	12827.3	14062.7	14714.3	14665.1	14505.3	14259.4	14314.7
20°	10743.7	10719.2	10694.6	10900.5	11764.0	13740.1	13807.7	13402.0	13051.7	12974.8
22.5°	10135.3	10126.0	10101.5	10147.5	10375.0	11644.2	12418.6	12043.7	11810.1	11788.6
25°	9579.0	9563.6	9489.9	9548.3	9548.3	9622.0	10614.7	10842.1	10636.2	10611.6
27.5°	9013.6	8985.9	8973.6	9001.3	8859.9	8362.0	8614.0	9723.5	9615.9	9622.0
30°	8402.0	8392.8	8359.0	8417.4	7981.0	7363.3	7203.5	8709.3	8730.8	8724.7
32.5°	7492.3	7532.3	7686.0	7750.5	7031.4	6521.2	6253.9	7535.4	7974.8	7965.6
35°	5442.6	5442.6	5943.5	6874.6	6161.7	5777.5	5633.1	6389.1	7228.1	7258.8
37.5°	4474.5	4489.9	4588.2	5012.3	5316.6	5181.3	5138.3	5378.0	6269.2	6318.4
40°	4025.8	4025.8	4025.8	3850.7	3841.4	4668.1	4643.5	4566.7	5414.9	5522.5
42.5°	3617.1	3626.3	3632.5	3189.9	2944.1	4035.0	3979.7	3863.0	4649.7	4775.7
45°	3196.1	3211.4	3229.9	2667.5	2559.9	2904.1	3368.2	3239.1	3893.7	4056.6
47.5°	1951.5	1976.0	2394.0	2261.8	2274.1	2240.3	2747.4	2725.9	3193.0	3423.5
50°	1318.4	1327.6	1367.6	1435.2	1951.5	1760.9	1945.3	2255.7	2424.7	2775.1
52.5°	1106.3	1121.7	1023.4	931.2	1281.5	1376.8	1358.3	1674.9	1742.5	2175.8
55°	777.5	826.7	780.6	771.4	728.3	1069.5	1029.5	1287.7	1330.7	1653.4
57.5°	79.9	92.2	159.8	574.7	476.3	605.4	734.5	943.5	986.5	1220.0
60°	6.1	6.1	15.4	79.9	347.3	362.6	507.1	580.8	663.8	851.3
62.5°	0.0	3.1	6.1	12.3	55.3	193.6	255.1	304.2	399.5	550.1
65°	0.0	0.0	3.1	9.2	12.3	73.8	98.3	159.8	218.2	341.1
67.5°	0.0	0.0	3.1	6.1	9.2	18.4	33.8	58.4	116.8	193.6
70°	0.0	0.0	3.1	6.1	9.2	15.4	24.6	36.9	52.2	104.5
72.5°	0.0	0.0	3.1	3.1	6.1	15.4	18.4	24.6	36.9	52.2
75°	0.0	0.0	3.1	3.1	9.2	18.4	15.4	18.4	24.6	33.8
77.5°	0.0	0.0	3.1	6.1	9.2	18.4	15.4	18.4	18.4	21.5
80°	0.0	0.0	3.1	6.1	12.3	21.5	18.4	18.4	15.4	15.4
82.5°	0.0	0.0	3.1	9.2	12.3	27.7	27.7	24.6	12.3	9.2
85°	0.0	0.0	6.1	12.3	18.4	30.7	30.7	24.6	9.2	6.1
87.5°	0.0	0.0	6.1	9.2	15.4	21.5	30.7	24.6	9.2	3.1
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°
16607.3	0°	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3	16607.3
16555.1	2.5°	16638.0	16619.6	16681.1	16705.7	16739.5	16610.4	16530.5	16533.6	16386.0
16367.6	5°	16465.9	16469.0	16548.9	16542.8	16576.6	16505.9	16475.2	16422.9	16293.9
16131.0	7.5°	16247.8	16220.1	16296.9	16355.3	16269.3	16318.4	16247.8	16272.3	16195.5
15922.0	10°	16078.7	16014.2	16084.9	16124.8	16127.9	16078.7	16011.1	15946.6	15918.9
15596.2	12.5°	15703.8	15620.8	15740.7	15796.0	15786.8	15691.5	15614.7	15630.1	15540.9
15024.6	15°	15187.5	15190.6	15276.6	15328.9	15279.7	15258.2	15264.3	15227.5	15150.6
14234.8	17.5°	14397.7	14443.8	14671.2	14797.2	14824.9	14781.9	14760.3	14717.3	14640.5
12974.8	20°	13082.4	13359.0	13764.6	14154.9	14231.8	14219.5	14142.6	14124.2	14081.2
11727.1	22.5°	11926.9	12132.8	12603.0	13211.5	13524.9	13555.7	13463.5	13435.8	13389.7
10611.6	25°	10731.4	10952.7	11376.8	12037.5	12686.0	12818.1	12802.8	12719.8	12670.6
9622.0	27.5°	9723.5	9944.7	10328.9	10925.1	11619.6	12043.7	12083.6	11951.5	11948.4
8740.0	30°	8813.8	9118.0	9410.0	9895.5	10568.6	11204.7	11272.3	11180.1	11189.3
7931.8	32.5°	8100.8	8352.8	8601.8	8927.5	9486.8	10227.4	10491.7	10405.7	10371.9
7258.8	35°	7372.5	7544.6	7799.7	8097.8	8478.8	9213.3	9671.2	9606.7	9572.9
6349.1	37.5°	6542.7	6837.8	7022.2	7357.1	7655.2	8239.1	8884.5	8875.3	8804.6
5574.7	40°	5691.5	6001.9	6281.5	6619.6	6850.1	7314.1	8030.1	8027.1	8036.3
4772.6	42.5°	4920.1	5205.9	5544.0	5912.7	6134.0	6472.1	7240.3	7283.4	7335.6
4111.9	45°	4222.5	4480.7	4794.1	5242.8	5510.2	5703.8	6386.0	6582.7	6579.6
3521.8	47.5°	3595.6	3838.4	4102.7	4539.0	4880.2	5055.3	5620.8	5900.5	5882.0
2888.8	50°	3017.8	3233.0	3509.5	3826.1	4284.0	4437.6	4858.7	5227.4	5199.8
2301.8	52.5°	2427.8	2725.9	2959.4	3248.3	3730.8	3881.4	4207.1	4566.7	4545.2
1727.1	55°	1893.1	2181.9	2464.7	2713.6	3119.2	3343.6	3577.1	3945.9	3939.8
1352.2	57.5°	1432.1	1748.6	2016.0	2252.6	2575.3	2851.9	3039.3	3374.3	3417.3
925.0	60°	1060.2	1303.0	1591.9	1856.2	2111.3	2397.1	2523.1	2851.9	2870.3
633.1	62.5°	722.2	989.6	1272.3	1512.0	1702.5	1997.5	2111.3	2381.7	2415.5
405.7	65°	500.9	673.0	995.7	1167.8	1401.4	1653.4	1767.1	1982.2	2049.8
233.6	67.5°	331.9	479.4	777.5	934.2	1164.7	1336.8	1481.3	1656.4	1730.2
147.5	70°	181.3	353.4	556.2	737.6	937.3	1103.3	1244.6	1386.0	1450.5
67.6	72.5°	122.9	236.6	387.2	583.9	756.0	918.9	1044.9	1149.4	1152.4
40.0	75°	61.5	159.8	295.0	451.8	590.0	749.8	863.6	925.0	851.3
24.6	77.5°	36.9	116.8	239.7	362.6	479.4	605.4	669.9	703.8	583.9
18.4	80°	21.5	83.0	187.5	288.9	331.9	445.6	507.1	516.3	390.3
12.3	82.5°	15.4	61.5	147.5	212.0	202.8	313.5	381.1	368.8	248.9
9.2	85°	9.2	43.0	92.2	132.1	122.9	205.9	221.3	227.4	144.4
6.1	87.5°	6.1	24.6	49.2	70.7	58.4	89.1	89.1	107.6	70.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16607.3
16195.5
16263.1
16066.4
15796.0
15464.1
15073.8
14606.7
13982.8
13377.4
12618.4
11942.3
11143.2
10375.0
9526.8
8863.0
8036.3
7308.0
6585.8
5888.2
5224.4
4591.3
3955.1
3398.9
2898.0
2421.6
2034.4
1721.0
1425.9
1124.8
795.9
562.4
365.7
230.5
132.1
61.5
0.0

(END OF REPORT)