

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: P638291

Luminaire Tested: **IFLD-M-SA4C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17377.3 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

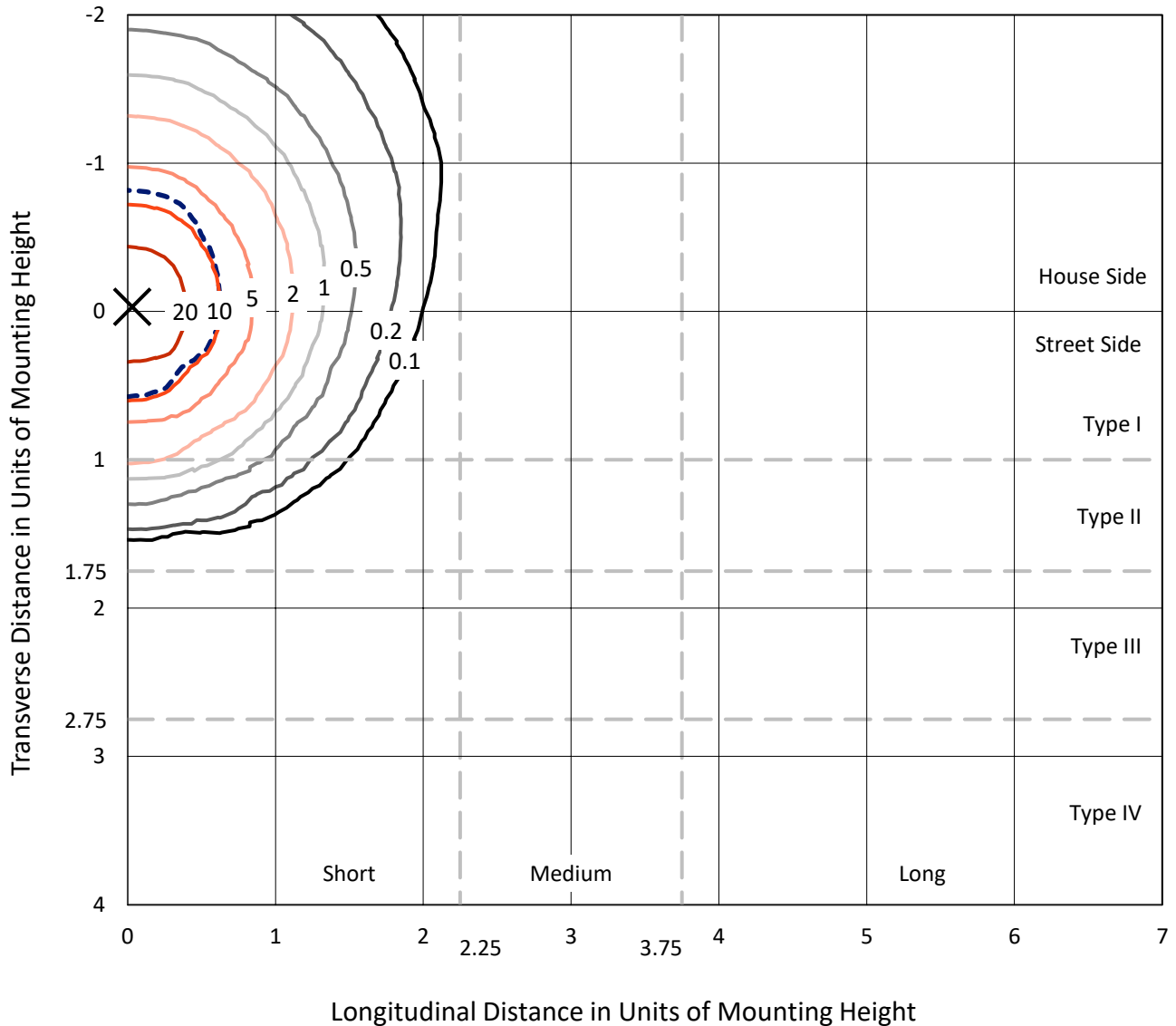
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

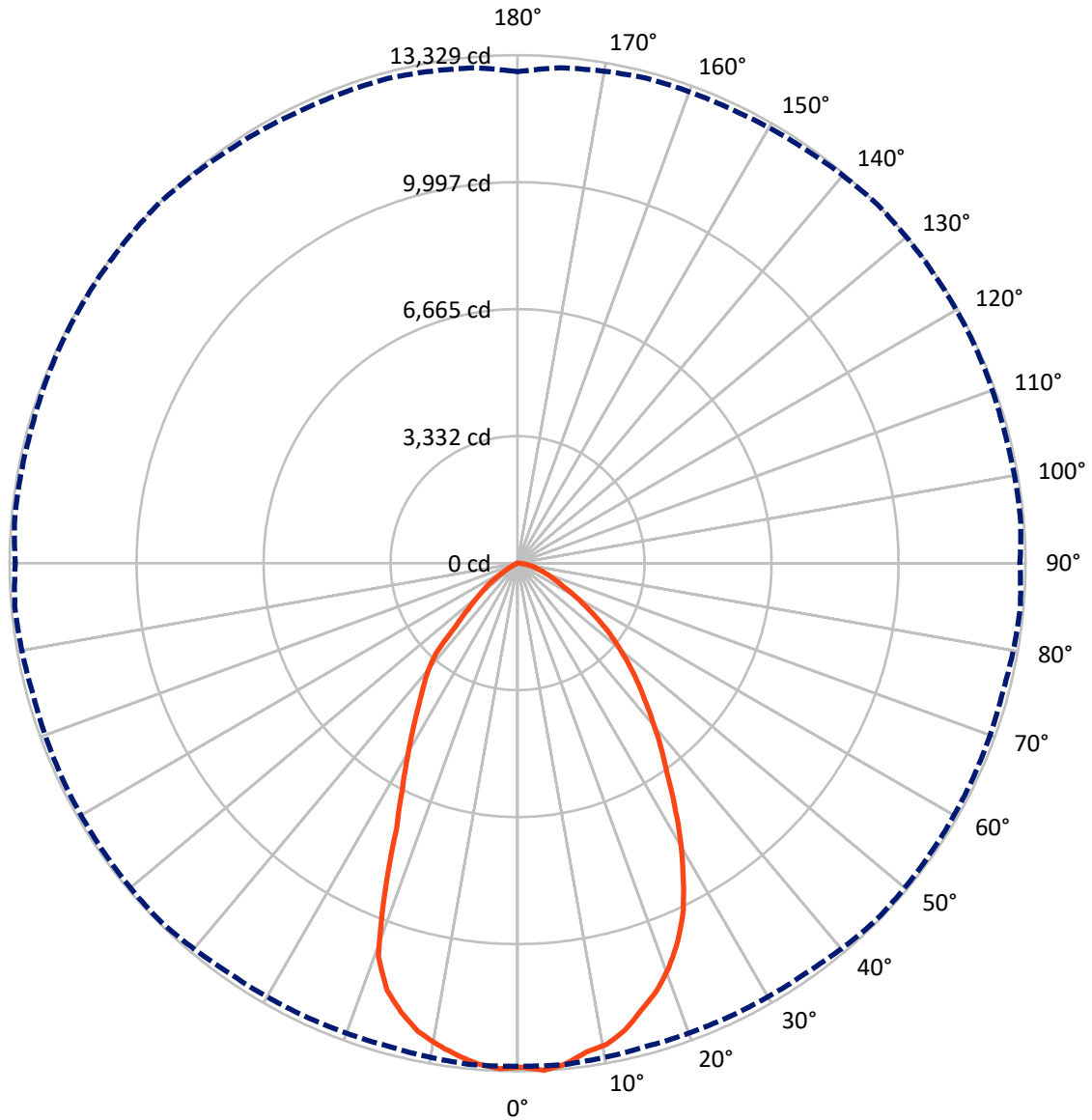
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 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
House Side	Lumens	10291.7	0.0	10291.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7085.6	0.0	7085.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	17377.3	0.0	17377.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.2	7.1
10°-20°	3325.7	19.1
20°-30°	4055.9	23.3
30°-40°	3703.0	21.3
40°-50°	2676.0	15.4
50°-60°	1461.2	8.4
60°-70°	604.1	3.5
70°-80°	244.7	1.4
80°-90°	66.6	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°	17377.3	100.0
0°-180°	17377.3	100.0

Coefficient of Utilization



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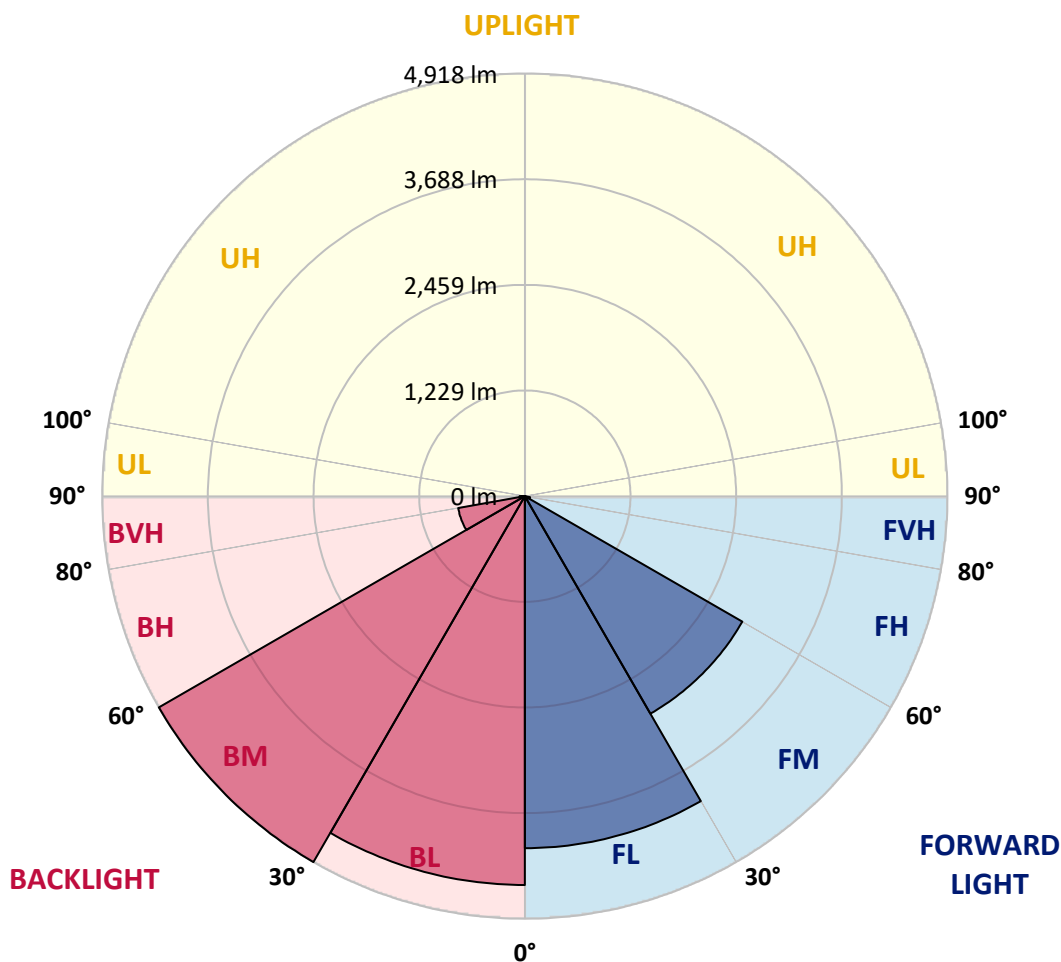
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4096.5	23.6			
FM (30°-60°)	2922.5	16.8			
FH (60°-80°)	61.2	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4525.3	26.0	B4/5000		
BM (30°-60°)	4917.6	28.3	B3/5000		
BH (60°-80°)	787.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0
2.5°	13199.6	13216.7	13123.7	13133.5	13150.6	13275.4	13243.6	13214.3	13172.7	13243.6
5°	13182.4	13192.2	13094.4	13060.1	13074.8	13187.3	13084.6	13084.6	13074.8	13062.5
7.5°	13050.3	13055.2	12979.3	12918.2	12957.3	13008.7	12932.8	12969.6	12915.7	12957.3
10°	12852.1	12820.3	12729.7	12712.6	12756.7	12805.6	12754.2	12788.5	12739.5	12771.3
12.5°	12560.9	12511.9	12438.5	12416.5	12492.4	12558.4	12516.8	12497.3	12433.6	12511.9
15°	11437.7	11401.0	11567.4	11858.6	12120.4	12176.7	12132.6	12152.2	12020.1	12042.1
17.5°	9413.9	9345.4	9524.1	10214.1	11197.9	11716.6	11677.5	11550.2	11354.5	11398.5
20°	8555.0	8535.4	8515.9	8679.8	9367.4	10940.9	10994.8	10671.7	10392.8	10331.6
22.5°	8070.5	8063.1	8043.6	8080.3	8261.4	9272.0	9888.7	9590.1	9404.1	9387.0
25°	7627.6	7615.3	7556.6	7603.1	7603.1	7661.8	8452.2	8633.3	8469.4	8449.8
27.5°	7177.3	7155.3	7145.5	7167.5	7054.9	6658.5	6859.2	7742.6	7656.9	7661.8
30°	6690.3	6683.0	6656.1	6702.6	6355.1	5863.2	5736.0	6935.0	6952.2	6947.3
32.5°	5966.0	5997.8	6120.2	6171.5	5598.9	5192.7	4979.8	6000.3	6350.2	6342.8
35°	4333.8	4333.8	4732.7	5474.1	4906.4	4600.5	4485.5	5087.5	5755.5	5780.0
37.5°	3563.0	3575.2	3653.5	3991.2	4233.5	4125.8	4091.5	4282.4	4992.1	5031.2
40°	3205.7	3205.7	3205.7	3066.2	3058.9	3717.1	3697.5	3636.4	4311.8	4397.4
42.5°	2880.2	2887.6	2892.5	2540.1	2344.3	3213.0	3169.0	3076.0	3702.4	3802.8
45°	2545.0	2557.2	2571.9	2124.1	2038.4	2312.5	2682.0	2579.2	3100.5	3230.2
47.5°	1553.9	1573.5	1906.3	1801.1	1810.8	1783.9	2187.7	2170.6	2542.5	2726.1
50°	1049.8	1057.1	1089.0	1142.8	1553.9	1402.2	1549.0	1796.2	1930.8	2209.7
52.5°	881.0	893.2	814.9	741.5	1020.4	1096.3	1081.6	1333.7	1387.5	1732.5
55°	619.1	658.3	621.6	614.2	580.0	851.6	819.8	1025.3	1059.6	1316.5
57.5°	63.6	73.4	127.2	457.6	379.3	482.1	584.9	751.3	785.5	971.5
60°	4.9	4.9	12.2	63.6	276.5	288.8	403.8	462.5	528.6	677.8
62.5°	0.0	2.4	4.9	9.8	44.0	154.2	203.1	242.3	318.1	438.0
65°	0.0	0.0	2.4	7.3	9.8	58.7	78.3	127.2	173.7	271.6
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.5	93.0	154.2
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.4	41.6	83.2
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.6	29.4	41.6
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.6	26.9
77.5°	0.0	0.0	2.4	4.9	7.3	14.7	12.2	14.7	14.7	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.7	14.7	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.6	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.5	24.5	19.6	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.5	19.6	7.3	2.4
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°
13224.0	0°	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0	13224.0
13182.4	2.5°	13248.5	13233.8	13282.8	13302.4	13329.3	13226.5	13162.9	13165.3	13047.9
13033.2	5°	13111.5	13113.9	13177.6	13172.7	13199.6	13143.3	13118.8	13077.2	12974.4
12844.7	7.5°	12937.7	12915.7	12976.9	13023.4	12954.9	12994.0	12937.7	12957.3	12896.1
12678.3	10°	12803.1	12751.8	12808.0	12839.9	12842.3	12803.1	12749.3	12697.9	12675.9
12419.0	12.5°	12504.6	12438.5	12534.0	12578.0	12570.7	12494.8	12433.6	12445.9	12374.9
11963.8	15°	12093.5	12095.9	12164.5	12206.1	12166.9	12149.8	12154.7	12125.3	12064.1
11334.9	17.5°	11464.6	11501.3	11682.4	11782.7	11804.7	11770.5	11753.3	11719.1	11657.9
10331.6	20°	10417.2	10637.5	10960.5	11271.3	11332.5	11322.7	11261.5	11246.8	11212.5
9338.1	22.5°	9497.1	9661.1	10035.5	10520.0	10769.6	10794.1	10720.7	10698.7	10661.9
8449.8	25°	8545.2	8721.4	9059.1	9585.2	10101.6	10206.8	10194.6	10128.5	10089.3
7661.8	27.5°	7742.6	7918.8	8224.7	8699.4	9252.4	9590.1	9621.9	9516.7	9514.3
6959.5	30°	7018.2	7260.5	7493.0	7879.6	8415.5	8922.1	8975.9	8902.5	8909.8
6315.9	32.5°	6450.5	6651.2	6849.4	7108.8	7554.2	8143.9	8354.3	8285.8	8258.9
5780.0	35°	5870.6	6007.6	6210.7	6448.1	6751.5	7336.4	7701.0	7649.6	7622.7
5055.7	37.5°	5209.8	5444.8	5591.6	5858.3	6095.7	6560.6	7074.5	7067.2	7010.9
4439.0	40°	4532.0	4779.2	5001.8	5271.0	5454.6	5824.1	6394.2	6391.8	6399.1
3800.3	42.5°	3917.8	4145.4	4414.5	4708.2	4884.4	5153.6	5765.3	5799.6	5841.2
3274.2	45°	3362.3	3567.9	3817.5	4174.7	4387.6	4541.8	5085.0	5241.7	5239.2
2804.4	47.5°	2863.1	3056.4	3266.9	3614.3	3886.0	4025.5	4475.7	4698.4	4683.7
2300.3	50°	2403.0	2574.3	2794.6	3046.6	3411.2	3533.6	3868.8	4162.5	4140.5
1832.9	52.5°	1933.2	2170.6	2356.5	2586.6	2970.8	3090.7	3350.1	3636.4	3619.2
1375.3	55°	1507.4	1737.4	1962.6	2160.8	2483.8	2662.4	2848.4	3142.1	3137.2
1076.7	57.5°	1140.3	1392.4	1605.3	1793.7	2050.7	2270.9	2420.2	2686.9	2721.2
736.6	60°	844.2	1037.6	1267.6	1478.0	1681.1	1908.7	2009.1	2270.9	2285.6
504.1	62.5°	575.1	788.0	1013.1	1204.0	1355.7	1590.6	1681.1	1896.5	1923.4
323.0	65°	398.9	535.9	792.9	929.9	1115.9	1316.5	1407.1	1578.4	1632.2
186.0	67.5°	264.3	381.7	619.1	743.9	927.4	1064.5	1179.5	1319.0	1377.7
117.5	70°	144.4	281.4	442.9	587.3	746.4	878.5	991.1	1103.6	1155.0
53.8	72.5°	97.9	188.4	308.3	464.9	602.0	731.7	832.0	915.2	917.7
31.8	75°	48.9	127.2	234.9	359.7	469.8	597.1	687.6	736.6	677.8
19.6	77.5°	29.4	93.0	190.9	288.8	381.7	482.1	533.5	560.4	464.9
14.7	80°	17.1	66.1	149.3	230.0	264.3	354.8	403.8	411.1	310.8
9.8	82.5°	12.2	48.9	117.5	168.8	161.5	249.6	303.4	293.7	198.2
7.3	85°	7.3	34.3	73.4	105.2	97.9	164.0	176.2	181.1	115.0
4.9	87.5°	4.9	19.6	39.2	56.3	46.5	71.0	71.0	85.6	56.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13224.0
12896.1
12950.0
12793.4
12578.0
12313.7
12003.0
11631.0
11134.2
10652.2
10047.7
9509.4
8873.1
8261.4
7586.0
7057.4
6399.1
5819.2
5244.1
4688.6
4160.0
3655.9
3149.4
2706.5
2307.6
1928.3
1620.0
1370.4
1135.4
895.6
633.8
447.8
291.2
183.5
105.2
48.9
0.0

(END OF REPORT)