

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: P638080

Luminaire Tested: **IFLD-S-SA3E-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638080
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17351.1 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

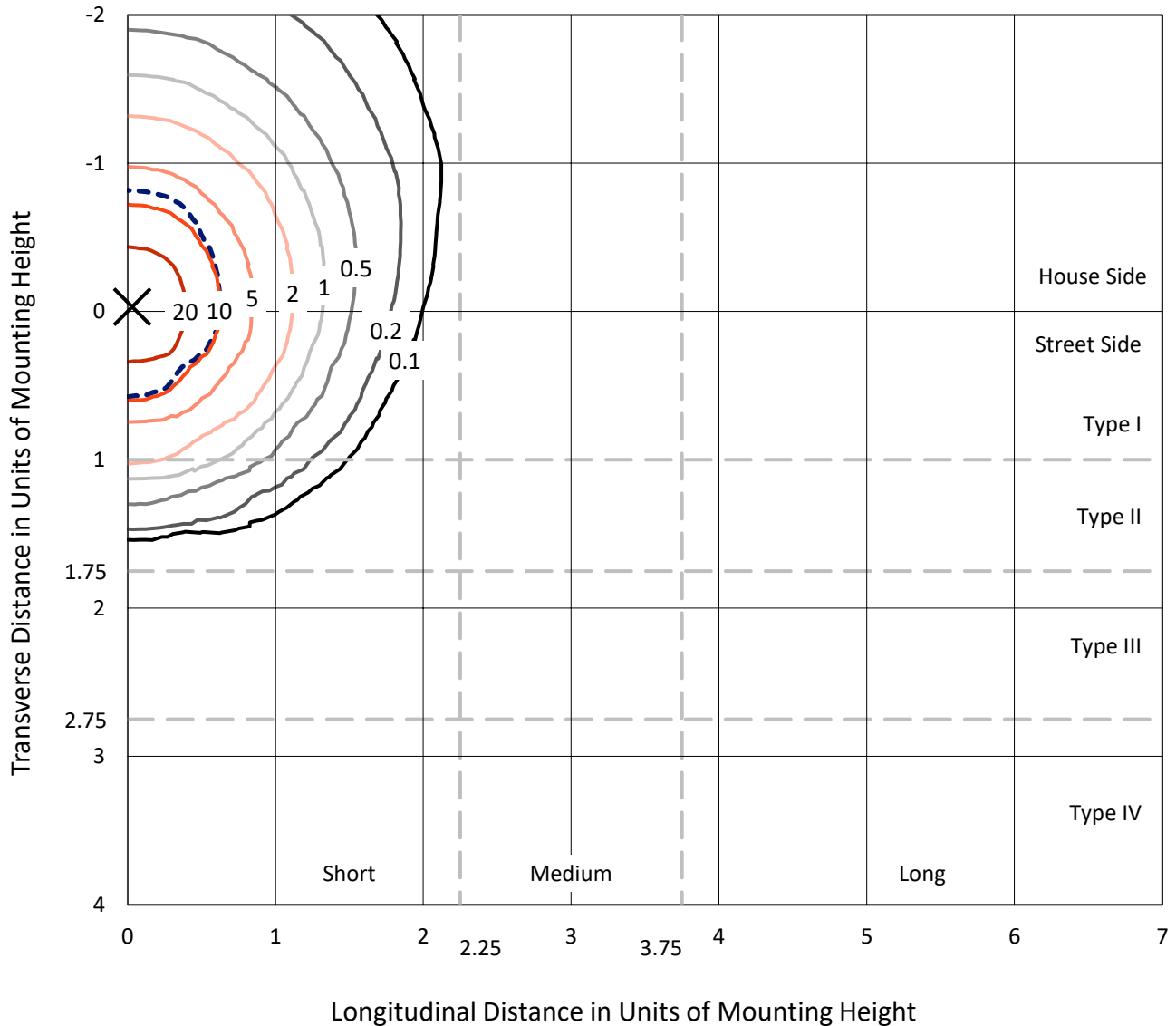
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

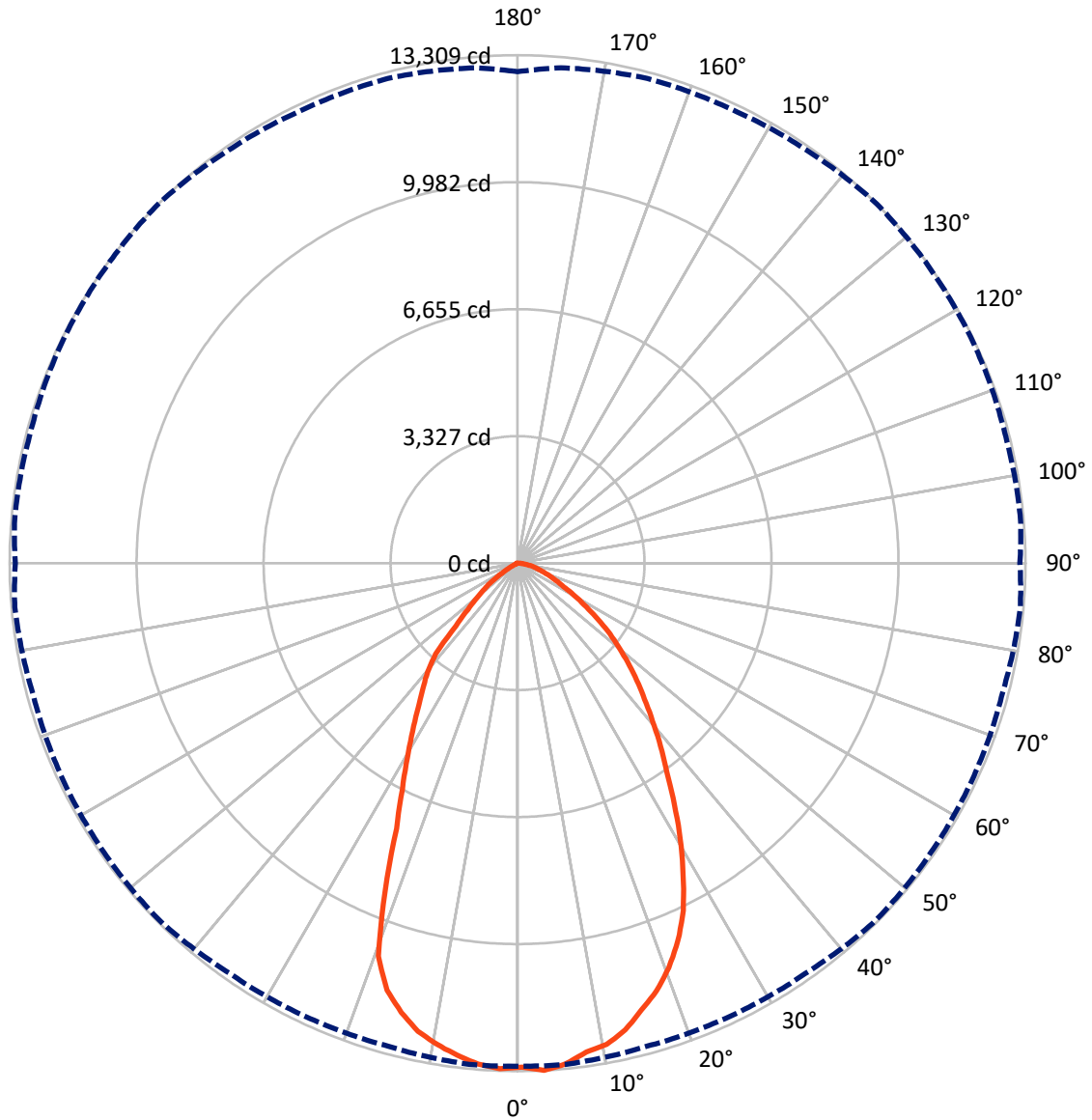
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33 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	10276.2	0.0	10276.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7074.9	0.0	7074.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	17351.1	0.0	17351.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.3	7.1
10°-20°	3320.7	19.1
20°-30°	4049.8	23.3
30°-40°	3697.4	21.3
40°-50°	2672.0	15.4
50°-60°	1459.0	8.4
60°-70°	603.2	3.5
70°-80°	244.3	1.4
80°-90°	66.5	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°	17351.1	100.0
0°-180°	17351.1	100.0



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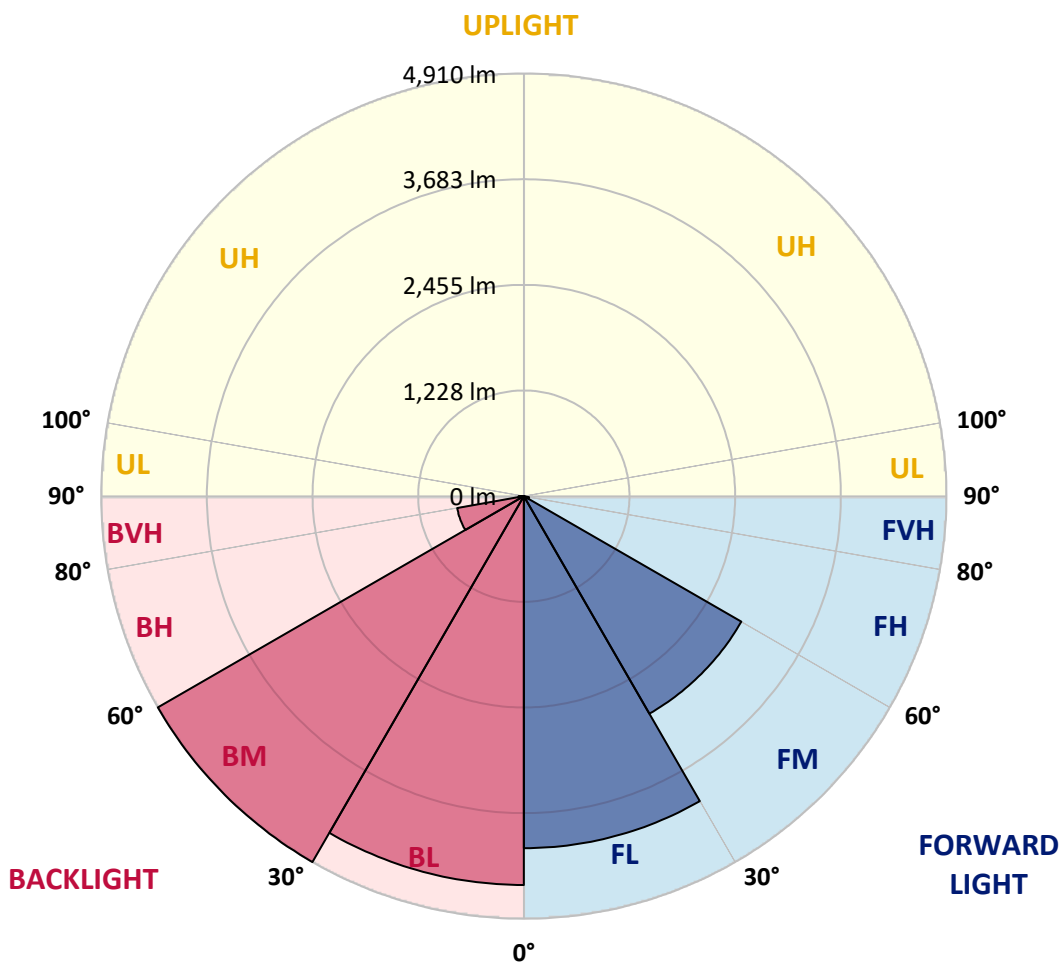
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.3	23.6			
FM (30°-60°)	2918.1	16.8			
FH (60°-80°)	61.1	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4518.5	26.0	B4/5000		
BM (30°-60°)	4910.2	28.3	B3/5000		
BH (60°-80°)	786.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.1	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°	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1
2.5°	13179.7	13196.8	13104.0	13113.7	13130.8	13255.5	13223.7	13194.4	13152.8	13223.7
5°	13162.6	13172.4	13074.6	13040.4	13055.1	13167.5	13064.9	13064.9	13055.1	13042.9
7.5°	13030.7	13035.5	12959.8	12898.7	12937.8	12989.1	12913.4	12950.0	12896.3	12937.8
10°	12832.7	12801.0	12710.6	12693.5	12737.5	12786.3	12735.0	12769.2	12720.3	12752.1
12.5°	12542.0	12493.1	12419.8	12397.8	12473.6	12539.5	12498.0	12478.5	12414.9	12493.1
15°	11420.5	11383.8	11550.0	11840.7	12102.2	12158.4	12114.4	12133.9	12002.0	12024.0
17.5°	9399.8	9331.4	9509.7	10198.8	11181.0	11699.0	11659.9	11532.9	11337.4	11381.4
20°	8542.1	8522.6	8503.0	8666.7	9353.3	10924.4	10978.2	10655.7	10377.1	10316.0
22.5°	8058.3	8051.0	8031.5	8068.1	8248.9	9258.0	9873.8	9575.7	9390.0	9372.9
25°	7616.1	7603.9	7545.2	7591.6	7591.6	7650.3	8439.5	8620.3	8456.6	8437.1
27.5°	7166.5	7144.5	7134.7	7156.7	7044.3	6648.5	6848.9	7730.9	7645.4	7650.3
30°	6680.3	6672.9	6646.1	6692.5	6345.5	5854.4	5727.3	6924.6	6941.7	6936.8
32.5°	5957.0	5988.8	6110.9	6162.3	5590.5	5184.9	4972.3	5991.2	6340.6	6333.3
35°	4327.3	4327.3	4725.5	5465.9	4899.0	4593.6	4478.8	5079.8	5746.9	5771.3
37.5°	3557.6	3569.8	3648.0	3985.2	4227.1	4119.6	4085.4	4276.0	4984.5	5023.6
40°	3200.9	3200.9	3200.9	3061.6	3054.3	3711.5	3692.0	3630.9	4305.3	4390.8
42.5°	2875.9	2883.2	2888.1	2536.3	2340.8	3208.2	3164.2	3071.4	3696.9	3797.0
45°	2541.1	2553.4	2568.0	2120.9	2035.4	2309.0	2678.0	2575.3	3095.8	3225.3
47.5°	1551.6	1571.1	1903.4	1798.3	1808.1	1781.2	2184.4	2167.3	2538.7	2721.9
50°	1048.2	1055.5	1087.3	1141.1	1551.6	1400.1	1546.7	1793.5	1927.8	2206.4
52.5°	879.6	891.8	813.7	740.4	1018.9	1094.6	1080.0	1331.7	1385.4	1729.9
55°	618.2	657.3	620.6	613.3	579.1	850.3	818.5	1023.8	1058.0	1314.6
57.5°	63.5	73.3	127.1	456.9	378.7	481.4	584.0	750.1	784.3	970.0
60°	4.9	4.9	12.2	63.5	276.1	288.3	403.2	461.8	527.8	676.8
62.5°	0.0	2.4	4.9	9.8	44.0	153.9	202.8	241.9	317.6	437.4
65°	0.0	0.0	2.4	7.3	9.8	58.6	78.2	127.1	173.5	271.2
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.4	92.8	153.9
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	41.5	83.1
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.5	29.3	41.5
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.5	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	19.5	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.4	24.4	19.5	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.4	19.5	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°
13204.1	0°	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1	13204.1
13162.6	2.5°	13228.6	13213.9	13262.8	13282.3	13309.2	13206.6	13143.1	13145.5	13028.2
13013.6	5°	13091.7	13094.2	13157.7	13152.8	13179.7	13123.5	13099.1	13057.5	12954.9
12825.4	7.5°	12918.3	12896.3	12957.4	13003.8	12935.4	12974.5	12918.3	12937.8	12876.7
12659.3	10°	12783.9	12732.6	12788.8	12820.5	12823.0	12783.9	12730.1	12678.8	12656.8
12400.3	12.5°	12485.8	12419.8	12515.1	12559.1	12551.8	12476.0	12414.9	12427.1	12356.3
11945.8	15°	12075.3	12077.7	12146.2	12187.7	12148.6	12131.5	12136.4	12107.1	12046.0
11317.8	17.5°	11447.3	11484.0	11664.8	11765.0	11787.0	11752.8	11735.7	11701.5	11640.4
10316.0	20°	10401.6	10621.5	10944.0	11254.3	11315.4	11305.6	11244.5	11229.9	11195.7
9324.0	22.5°	9482.8	9646.6	10020.4	10504.2	10753.4	10777.8	10704.5	10682.6	10645.9
8437.1	25°	8532.4	8708.3	9045.5	9570.8	10086.4	10191.4	10179.2	10113.2	10074.1
7650.3	27.5°	7730.9	7906.8	8212.3	8686.3	9238.5	9575.7	9607.5	9502.4	9499.9
6949.0	30°	7007.7	7249.6	7481.7	7867.8	8402.9	8908.6	8962.4	8889.1	8896.4
6306.4	32.5°	6440.8	6641.2	6839.1	7098.1	7542.8	8131.6	8341.8	8273.4	8246.5
5771.3	35°	5861.7	5998.6	6201.4	6438.4	6741.3	7325.3	7689.4	7638.1	7611.2
5048.1	37.5°	5202.0	5436.6	5583.2	5849.5	6086.5	6550.8	7063.9	7056.5	7000.3
4432.3	40°	4525.2	4772.0	4994.3	5263.1	5446.3	5815.3	6384.6	6382.2	6389.5
3794.6	42.5°	3911.9	4139.1	4407.9	4701.1	4877.0	5145.8	5756.7	5790.9	5832.4
3269.3	45°	3357.2	3562.5	3811.7	4168.4	4381.0	4535.0	5077.4	5233.8	5231.3
2800.1	47.5°	2858.8	3051.8	3261.9	3608.9	3880.1	4019.4	4469.0	4691.3	4676.7
2296.8	50°	2399.4	2570.5	2790.4	3042.0	3406.1	3528.3	3863.0	4156.2	4134.2
1830.1	52.5°	1930.3	2167.3	2353.0	2582.7	2966.3	3086.0	3345.0	3630.9	3613.8
1373.2	55°	1505.1	1734.8	1959.6	2157.5	2480.1	2658.4	2844.1	3137.3	3132.4
1075.1	57.5°	1138.6	1390.3	1602.9	1791.0	2047.6	2267.5	2416.5	2682.9	2717.1
735.5	60°	843.0	1036.0	1265.7	1475.8	1678.6	1905.9	2006.0	2267.5	2282.1
503.3	62.5°	574.2	786.8	1011.6	1202.2	1353.6	1588.2	1678.6	1893.6	1920.5
322.5	65°	398.3	535.1	791.7	928.5	1114.2	1314.6	1405.0	1576.0	1629.7
185.7	67.5°	263.9	381.2	618.2	742.8	926.0	1062.9	1177.7	1317.0	1375.6
117.3	70°	144.2	281.0	442.3	586.4	745.2	877.2	989.6	1102.0	1153.3
53.8	72.5°	97.7	188.1	307.9	464.2	601.1	730.6	830.8	913.8	916.3
31.8	75°	48.9	127.1	234.6	359.2	469.1	596.2	686.6	735.5	676.8
19.5	77.5°	29.3	92.8	190.6	288.3	381.2	481.4	532.7	559.5	464.2
14.7	80°	17.1	66.0	149.0	229.7	263.9	354.3	403.2	410.5	310.3
9.8	82.5°	12.2	48.9	117.3	168.6	161.3	249.2	303.0	293.2	197.9
7.3	85°	7.3	34.2	73.3	105.1	97.7	163.7	175.9	180.8	114.8
4.9	87.5°	4.9	19.5	39.1	56.2	46.4	70.9	70.9	85.5	56.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13204.1
12876.7
12930.5
12774.1
12559.1
12295.2
11984.9
11613.5
11117.5
10636.1
10032.6
9495.1
8859.8
8248.9
7574.5
7046.8
6389.5
5810.4
5236.2
4681.6
4153.8
3650.4
3144.7
2702.4
2304.1
1925.4
1617.5
1368.3
1133.7
894.3
632.8
447.1
290.8
183.3
105.1
48.9
0.0

(END OF REPORT)