

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: P637382

Luminaire Tested: **IFLD-S-SA3C-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20429.7 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

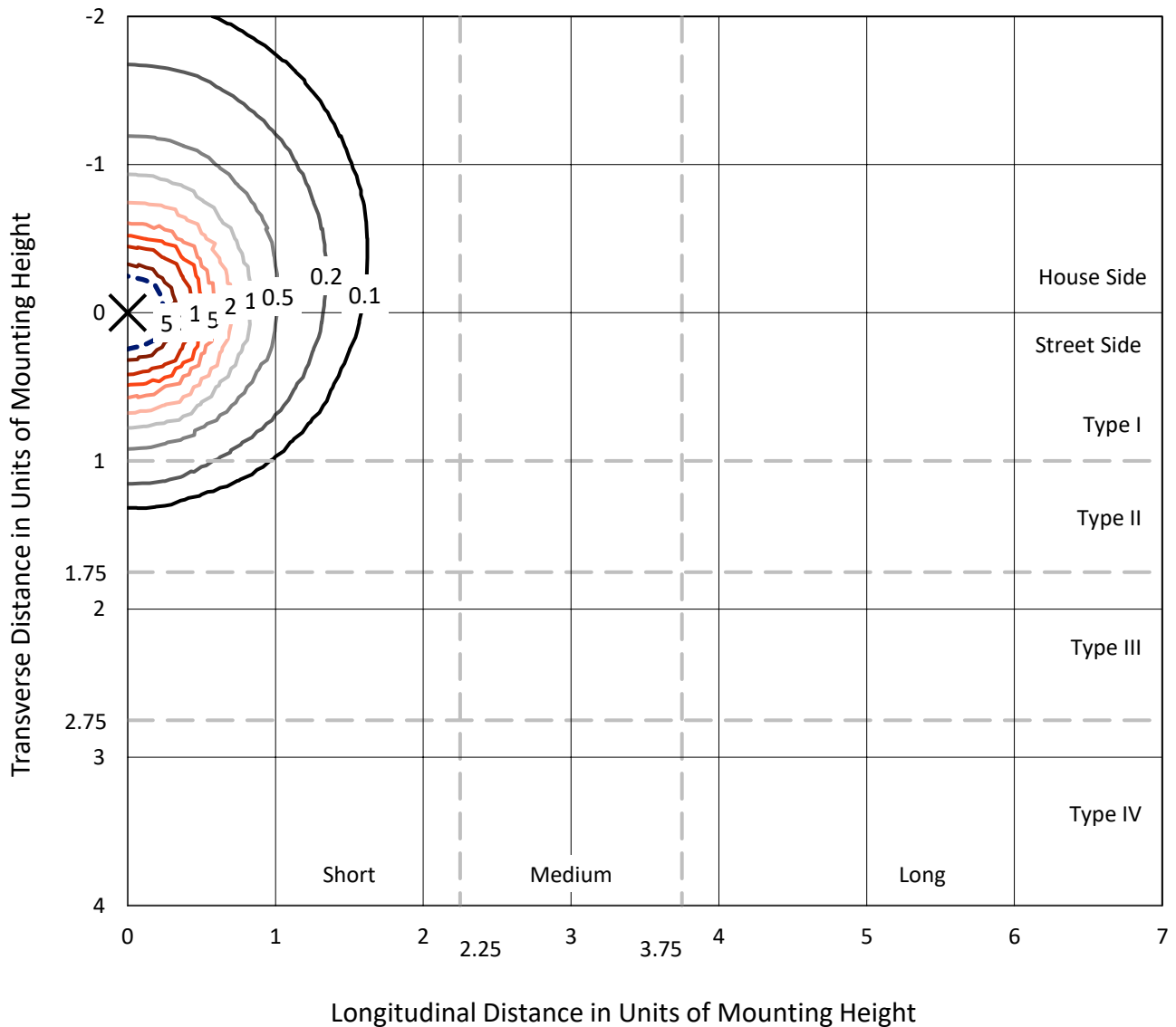
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

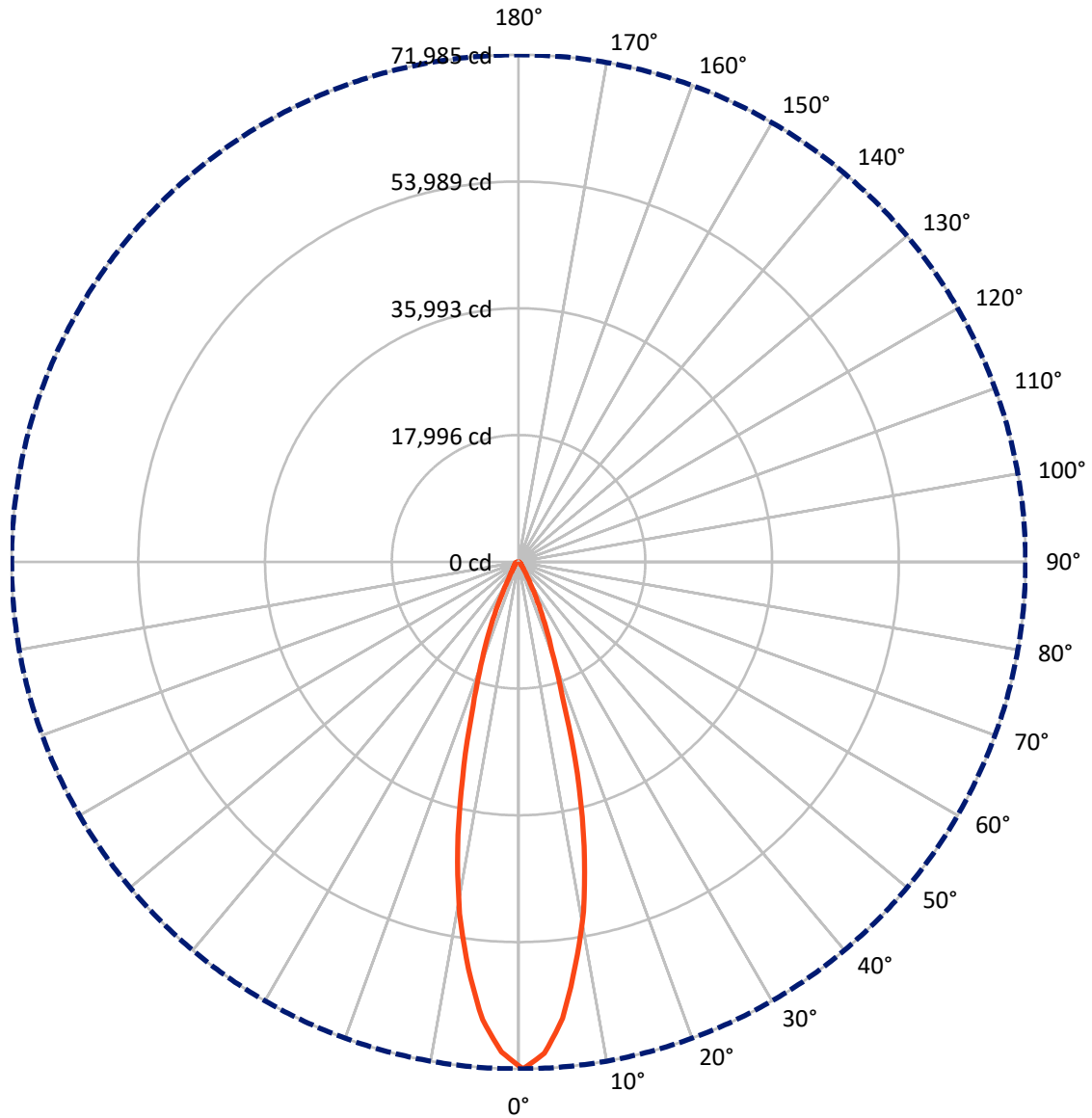
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 180 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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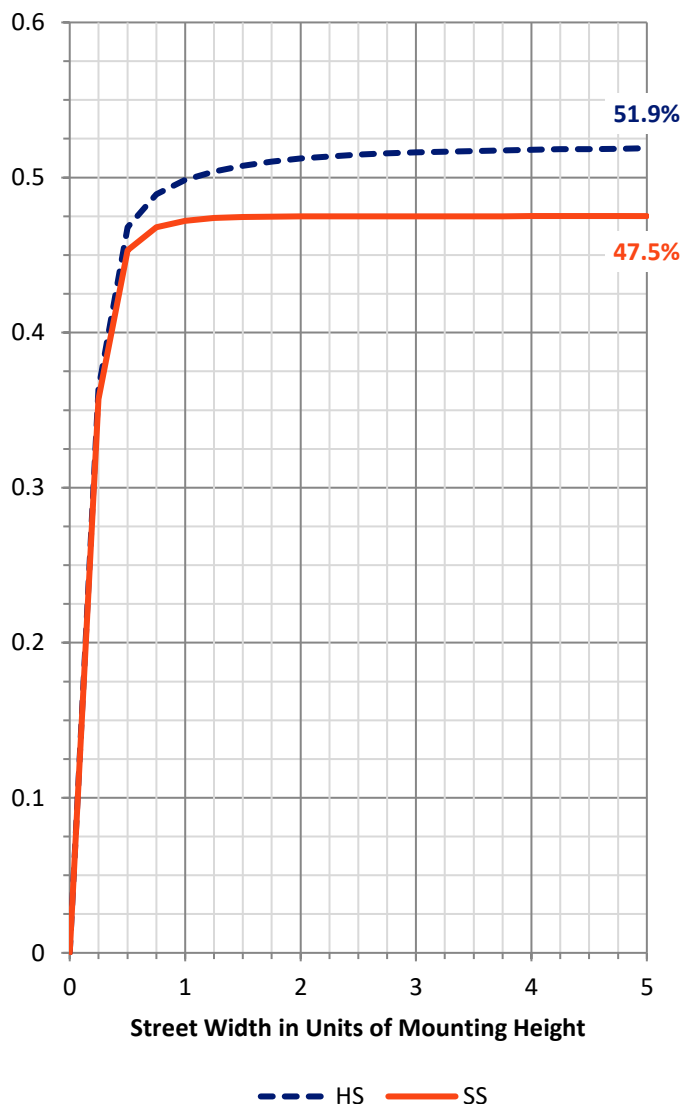
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10771.9	0.0	10771.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9657.8	0.0	9657.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	20429.7	0.0	20429.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5809.9	28.4
10°-20°	8799.0	43.1
20°-30°	3713.2	18.2
30°-40°	968.4	4.7
40°-50°	489.8	2.4
50°-60°	320.2	1.6
60°-70°	191.8	0.9
70°-80°	100.9	0.5
80°-90°	36.5	0.2
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°	20429.7	100.0
0°-180°	20429.7	100.0

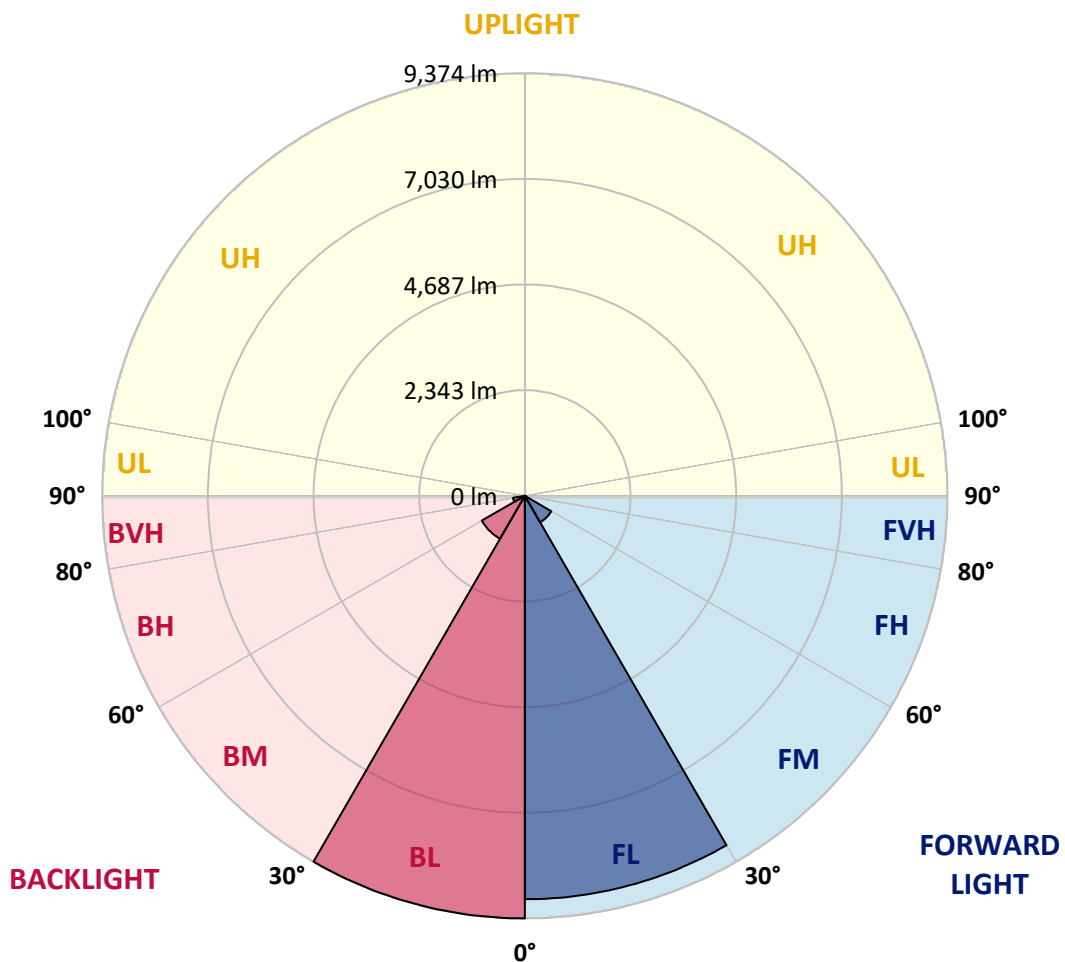


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8948.1	43.8			
FM (30°-60°)	677.7	3.3			
FH (60°-80°)	27.6	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9374.0	45.9	B5		
BM (30°-60°)	1100.8	5.4	B2/2500		
BH (60°-80°)	265.1	1.3	B1/500		G0/660
BVH (80°-90°)	32.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3
2.5°	69888.3	69927.3	69782.8	70094.8	69851.6	70503.2	70179.7	70684.4	70514.6	70796.8
5°	65116.2	65052.0	65010.7	65494.8	65354.8	66054.6	65607.2	65460.4	65914.6	65832.0
7.5°	57909.9	58079.7	57983.3	58109.5	58180.6	58979.0	59231.4	59034.1	59041.0	59155.7
10°	50522.3	50272.2	49916.6	50152.9	50653.1	51001.8	50861.9	51150.9	51086.7	51359.7
12.5°	41432.4	41629.7	41430.1	41219.0	42093.1	41996.8	42240.0	42398.3	42001.4	42884.7
15°	31209.1	31312.3	31555.5	31539.4	32211.7	32347.0	32314.9	32482.4	32172.7	32319.5
17.5°	20049.7	20398.4	21052.3	22158.1	23401.6	23546.2	23509.5	23371.8	23222.7	23057.5
20°	13467.4	13430.7	13667.0	13990.5	16564.7	17246.1	17225.4	16794.1	16170.1	16050.8
22.5°	9434.1	9502.9	9470.8	9792.0	10324.3	12203.3	11971.5	11533.3	11329.1	11196.1
25°	6206.0	6180.8	6341.4	6437.7	6894.3	7123.7	7935.9	7773.0	7458.7	7493.1
27.5°	3783.3	3815.4	3875.0	3957.6	4281.1	4207.7	4671.2	4733.1	4632.1	4524.3
30°	2321.8	2344.8	2392.9	2452.6	2565.0	2484.7	2613.2	2835.7	2799.0	2723.3
32.5°	1576.2	1578.5	1612.9	1635.8	1622.1	1546.3	1587.6	1798.7	1803.3	1796.4
35°	1133.4	1133.4	1165.5	1183.8	1144.8	1082.9	1089.8	1220.6	1277.9	1289.4
37.5°	782.3	784.6	839.7	894.8	851.2	835.1	807.6	894.8	986.5	1000.3
40°	594.2	591.9	619.5	660.8	665.3	635.5	644.7	699.8	793.8	805.3
42.5°	481.8	484.1	497.9	493.3	495.6	534.6	548.3	573.6	660.8	681.4
45°	406.1	408.4	415.3	392.3	383.1	442.8	461.1	474.9	548.3	573.6
47.5°	335.0	339.6	346.4	321.2	316.6	355.6	387.7	401.5	465.7	493.3
50°	240.9	245.5	270.7	257.0	270.7	279.9	323.5	344.1	387.7	424.4
52.5°	174.4	179.0	185.8	188.1	222.5	227.1	259.3	291.4	312.0	353.3
55°	137.7	142.2	137.7	133.1	162.9	188.1	199.6	234.0	250.1	298.3
57.5°	78.0	82.6	89.5	103.2	107.8	144.5	156.0	185.8	199.6	245.5
60°	13.8	16.1	25.2	61.9	75.7	91.8	117.0	142.2	160.6	192.7
62.5°	2.3	2.3	4.6	13.8	43.6	64.2	84.9	100.9	117.0	146.8
65°	0.0	0.0	2.3	4.6	11.5	36.7	45.9	59.7	80.3	105.5
67.5°	0.0	0.0	2.3	4.6	6.9	13.8	20.6	36.7	45.9	71.1
70°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	16.1	27.5	43.6
72.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	13.8	13.8	27.5
75°	0.0	0.0	2.3	4.6	6.9	11.5	13.8	13.8	11.5	11.5
77.5°	0.0	0.0	2.3	4.6	9.2	13.8	16.1	13.8	9.2	9.2
80°	0.0	0.0	4.6	6.9	11.5	16.1	20.6	16.1	9.2	4.6
82.5°	0.0	0.0	4.6	9.2	11.5	18.4	25.2	20.6	9.2	4.6
85°	0.0	0.0	2.3	6.9	13.8	18.4	25.2	18.4	9.2	2.3
87.5°	0.0	0.0	2.3	2.3	4.6	6.9	13.8	11.5	4.6	2.3
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°
71985.3	0°	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3	71985.3
70262.3	2.5°	70666.1	71033.2	71108.9	71007.9	71154.8	70890.9	70689.0	70165.9	69851.6
65806.8	5°	66231.2	66176.2	66559.3	66685.5	66669.4	66467.5	66185.3	65868.7	65561.3
58933.1	7.5°	59300.2	59371.3	59720.1	59942.6	59830.2	59577.8	59382.8	59144.2	58937.7
51458.4	10°	51928.7	51440.0	51873.6	51873.6	52174.2	51460.7	51527.2	50926.1	50953.6
42868.6	12.5°	43015.4	43192.1	43263.2	43467.4	43116.4	42737.8	42274.4	42182.6	41895.8
32039.6	15°	32500.7	33005.5	32571.9	33312.9	32955.0	32560.4	32489.3	31778.1	32002.9
23238.7	17.5°	23124.0	23681.5	23855.9	24280.3	23954.6	23720.5	23424.6	23208.9	23192.9
16268.7	20°	16397.2	16957.0	17085.5	17594.8	17558.1	17484.7	17234.6	16961.6	16665.6
11074.5	22.5°	11242.0	11698.5	12125.3	12811.3	12799.8	12584.1	12558.9	12173.4	12180.3
7481.6	25°	7559.6	7892.3	7993.3	8695.3	8773.3	8750.4	8619.6	8261.7	8397.1
4570.2	27.5°	4574.8	4866.2	5208.0	5455.8	5689.8	5653.1	5522.3	5322.7	5235.5
2746.3	30°	2819.7	2950.4	3076.6	3374.9	3514.8	3588.3	3526.3	3340.5	3354.2
1807.9	32.5°	1846.9	1957.0	2048.8	2236.9	2310.3	2445.7	2420.5	2381.5	2335.6
1300.9	35°	1346.7	1427.0	1489.0	1576.2	1670.2	1784.9	1803.3	1787.2	1768.9
1004.9	37.5°	1027.8	1110.4	1181.6	1218.3	1291.7	1381.2	1431.6	1429.3	1415.6
819.1	40°	835.1	897.1	961.3	1009.5	1060.0	1126.5	1188.4	1195.3	1195.3
688.3	42.5°	697.5	750.2	814.5	864.9	901.7	963.6	1027.8	1032.4	1027.8
582.7	45°	596.5	642.4	704.3	764.0	793.8	839.7	901.7	915.4	906.2
500.2	47.5°	518.5	559.8	612.6	676.8	708.9	750.2	807.6	823.6	821.4
431.3	50°	445.1	493.3	546.0	598.8	640.1	679.1	734.2	752.5	745.6
367.1	52.5°	392.3	435.9	481.8	539.2	587.3	621.7	665.3	697.5	688.3
309.7	55°	328.1	380.9	429.0	477.2	536.9	573.6	614.9	653.9	644.7
261.5	57.5°	284.5	328.1	383.1	426.7	486.4	530.0	571.3	612.6	610.3
213.4	60°	238.6	284.5	337.3	383.1	438.2	486.4	527.7	573.6	578.2
160.6	62.5°	188.1	243.2	289.1	341.8	396.9	449.7	486.4	532.3	539.2
121.6	65°	142.2	199.6	250.1	300.6	355.6	413.0	445.1	484.1	491.0
89.5	67.5°	105.5	153.7	213.4	259.3	316.6	371.7	401.5	433.6	445.1
55.1	70°	80.3	117.0	179.0	222.5	282.2	325.8	357.9	385.4	394.6
36.7	72.5°	50.5	91.8	144.5	190.4	243.2	282.2	305.1	321.2	335.0
20.6	75°	34.4	71.1	117.0	162.9	201.9	231.7	252.4	266.1	277.6
9.2	77.5°	20.6	55.1	96.4	135.4	160.6	183.5	204.2	213.4	220.3
6.9	80°	11.5	41.3	80.3	110.1	126.2	142.2	158.3	169.8	174.4
4.6	82.5°	6.9	32.1	64.2	84.9	91.8	107.8	123.9	130.8	130.8
2.3	85°	4.6	22.9	43.6	61.9	66.5	78.0	82.6	87.2	91.8
2.3	87.5°	4.6	13.8	27.5	34.4	36.7	41.3	43.6	48.2	52.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>71985.3</u>
69619.9
65217.2
58238.0
50685.2
41634.3
31778.1
22766.1
16537.2
12047.3
8183.7
5159.8
3294.6
2319.5
1762.0
1408.7
1181.6
1023.2
906.2
816.8
741.1
686.0
649.3
612.6
580.5
543.7
497.9
449.7
399.2
332.7
275.3
218.0
169.8
128.5
89.5
50.5
0.0

(END OF REPORT)