

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: P637478

Luminaire Tested: **IFLD-M-SA4B-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637478
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16193 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

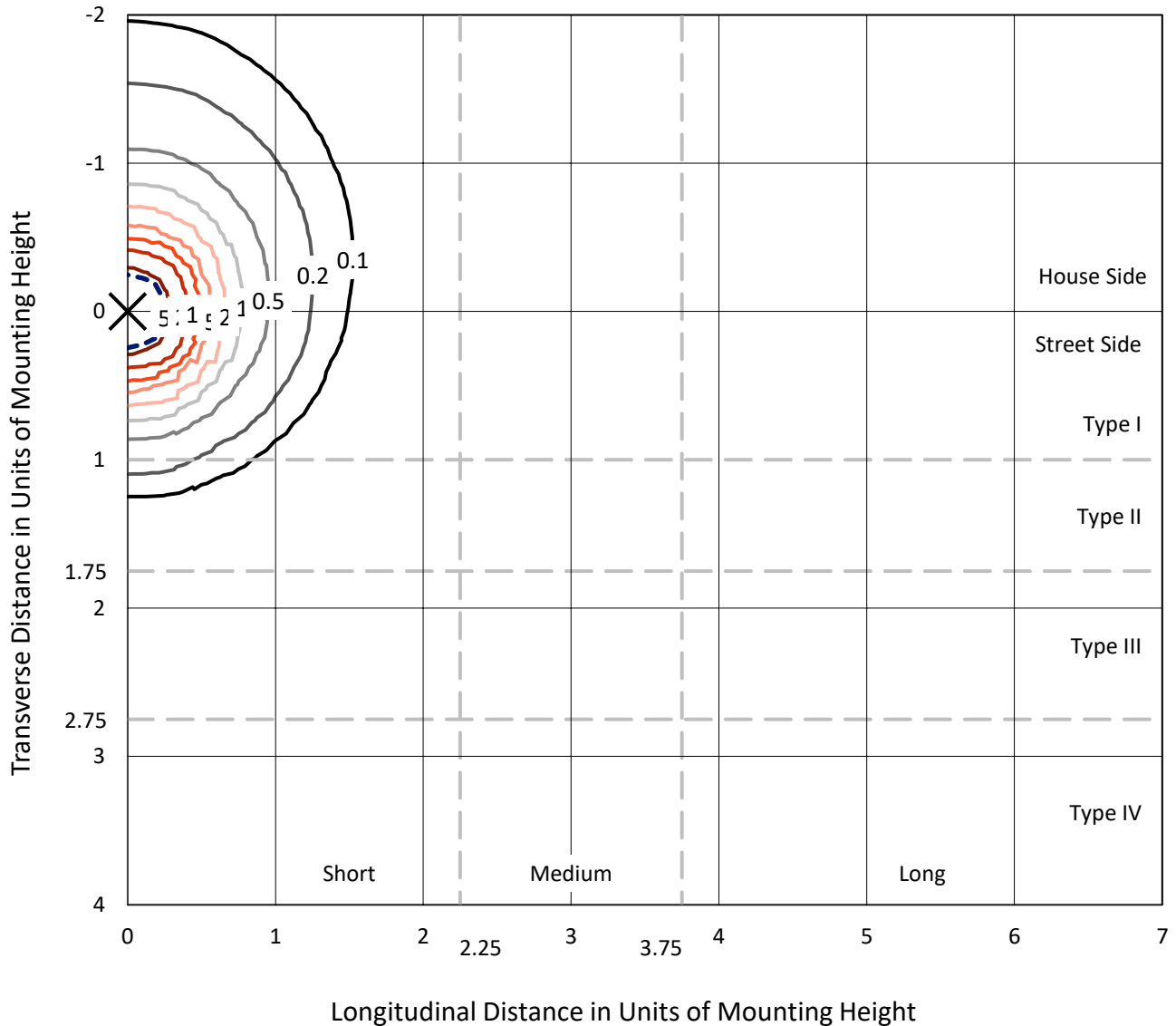
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637478
 CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

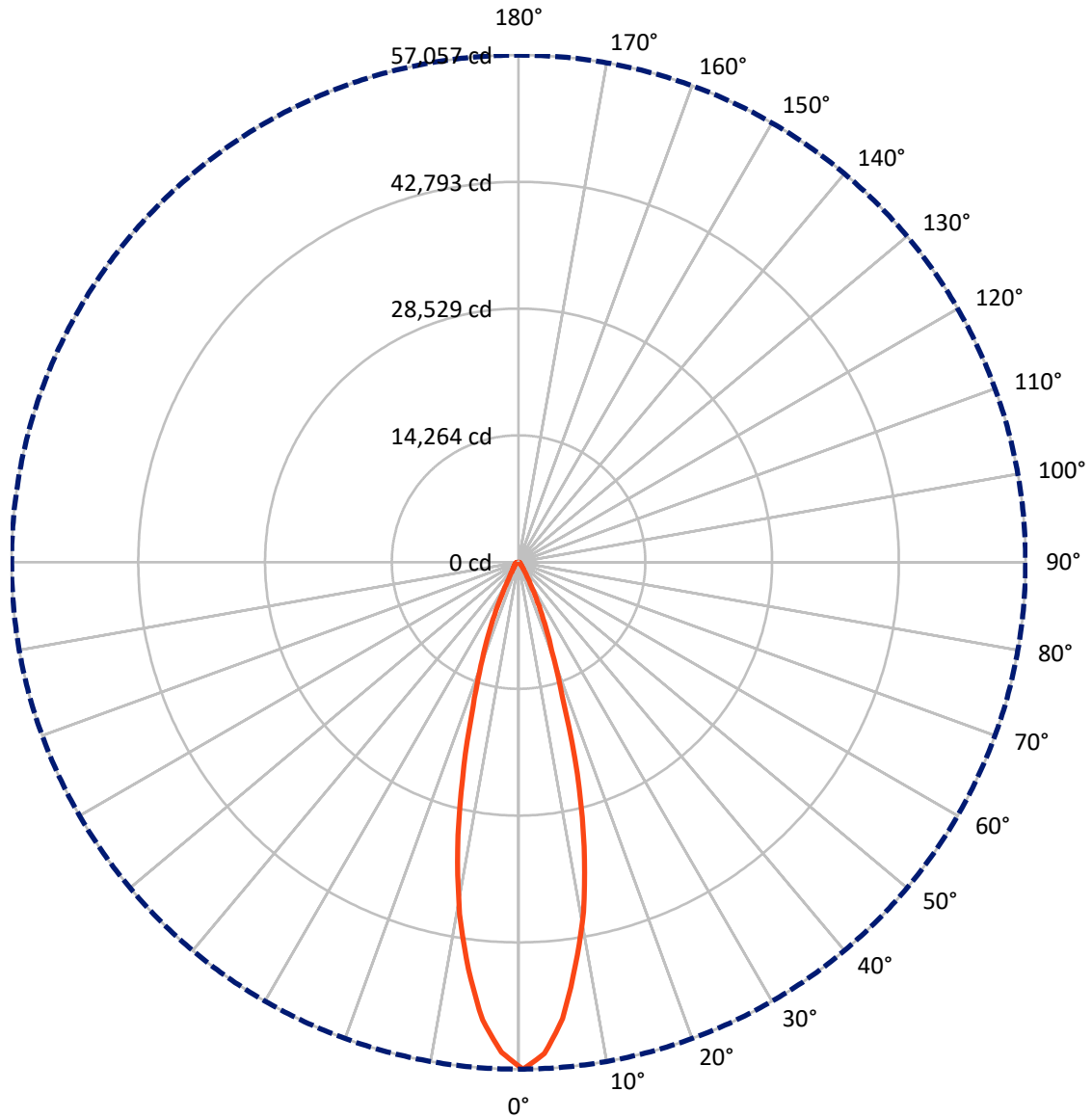
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 142.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637478
CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637478
 CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

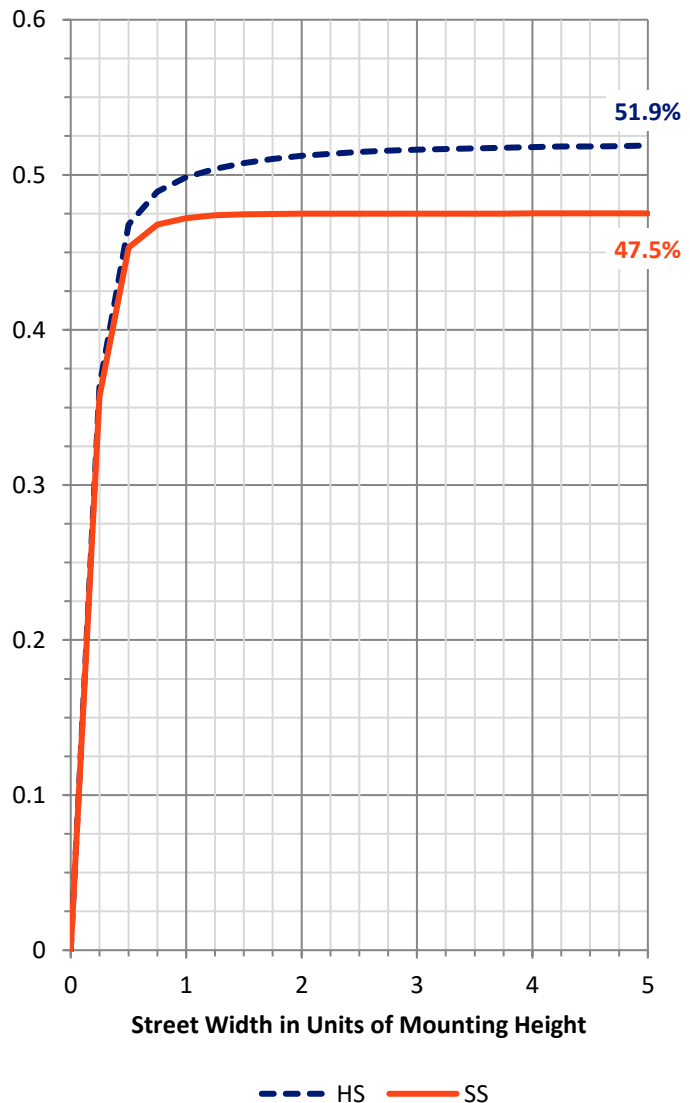
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8538.0	0.0	8538.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7654.9	0.0	7654.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	16193.0	0.0	16193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4605.0	28.4
10°-20°	6974.2	43.1
20°-30°	2943.2	18.2
30°-40°	767.6	4.7
40°-50°	388.2	2.4
50°-60°	253.8	1.6
60°-70°	152.0	0.9
70°-80°	80.0	0.5
80°-90°	28.9	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°	16193.0	100.0
0°-180°	16193.0	100.0



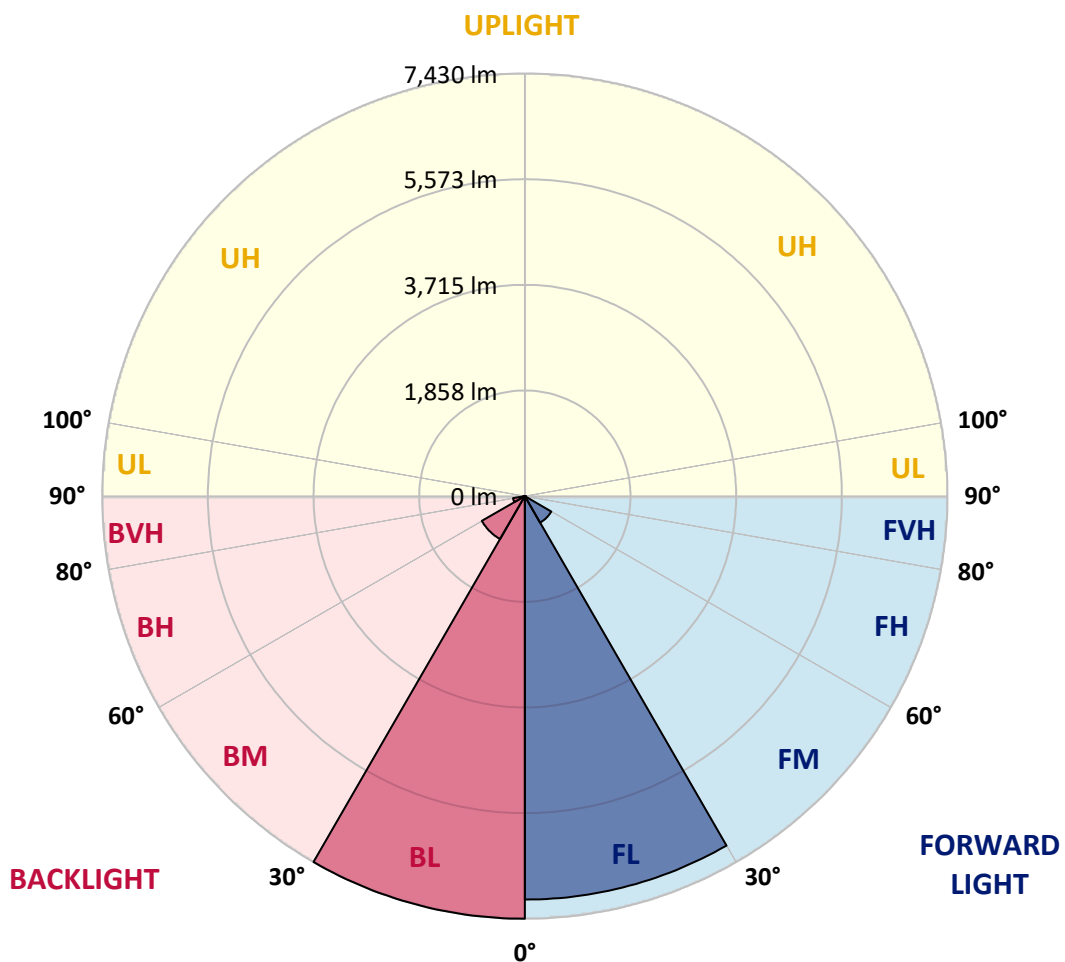
REPORT NUMBER: P637478
 CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7092.4	43.8			
FM (30°-60°)	537.1	3.3			
FH (60°-80°)	21.9	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	7430.0	45.9	B5		
BM (30°-60°)	872.5	5.4	B1/1000		
BH (60°-80°)	210.1	1.3	B1/500		G0/660
BVH (80°-90°)	25.4	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





REPORT NUMBER: P637478
 CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0
2.5°	55394.9	55425.8	55311.3	55558.6	55365.8	55882.3	55625.9	56025.9	55891.4	56115.0
5°	51612.5	51561.5	51528.8	51912.5	51801.6	52356.2	52001.6	51885.2	52245.3	52179.8
7.5°	45900.6	46035.1	45958.8	46058.8	46115.2	46748.0	46948.0	46791.6	46797.1	46888.0
10°	40045.0	39846.8	39564.9	39752.3	40148.7	40425.1	40314.2	40543.3	40492.4	40708.8
12.5°	32840.2	32996.5	32838.3	32671.0	33363.9	33287.5	33480.3	33605.7	33291.1	33991.3
15°	24737.0	24818.8	25011.5	24998.8	25531.6	25638.9	25613.5	25746.2	25500.7	25617.1
17.5°	15891.8	16168.2	16686.5	17563.0	18548.6	18663.2	18634.1	18525.0	18406.8	18275.9
20°	10674.6	10645.5	10832.8	11089.2	13129.5	13669.6	13653.2	13311.4	12816.7	12722.2
22.5°	7477.6	7532.2	7506.7	7761.3	8183.2	9672.6	9488.9	9141.6	8979.7	8874.2
25°	4919.0	4899.0	5026.3	5102.7	5464.6	5646.4	6290.2	6161.1	5911.9	5939.2
27.5°	2998.7	3024.2	3071.4	3136.9	3393.3	3335.1	3702.5	3751.6	3671.5	3586.1
30°	1840.3	1858.5	1896.7	1944.0	2033.1	1969.4	2071.3	2247.7	2218.6	2158.6
32.5°	1249.3	1251.1	1278.4	1296.6	1285.7	1225.7	1258.4	1425.7	1429.3	1423.9
35°	898.3	898.3	923.8	938.3	907.4	858.3	863.8	967.4	1012.9	1022.0
37.5°	620.1	621.9	665.6	709.2	674.7	661.9	640.1	709.2	782.0	792.9
40°	471.0	469.2	491.0	523.7	527.4	503.7	511.0	554.6	629.2	638.3
42.5°	381.9	383.7	394.6	391.0	392.8	423.7	434.6	454.6	523.7	540.1
45°	321.9	323.7	329.1	311.0	303.7	351.0	365.5	376.4	434.6	454.6
47.5°	265.5	269.1	274.6	254.6	251.0	281.9	307.3	318.2	369.2	391.0
50°	190.9	194.6	214.6	203.7	214.6	221.9	256.4	272.8	307.3	336.4
52.5°	138.2	141.8	147.3	149.1	176.4	180.0	205.5	230.9	247.3	280.0
55°	109.1	112.7	109.1	105.5	129.1	149.1	158.2	185.5	198.2	236.4
57.5°	61.8	65.5	70.9	81.8	85.5	114.6	123.7	147.3	158.2	194.6
60°	10.9	12.7	20.0	49.1	60.0	72.7	92.7	112.7	127.3	152.8
62.5°	1.8	1.8	3.6	10.9	34.6	50.9	67.3	80.0	92.7	116.4
65°	0.0	0.0	1.8	3.6	9.1	29.1	36.4	47.3	63.6	83.7
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	16.4	29.1	36.4	56.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	12.7	21.8	34.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	10.9	21.8
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	9.1	9.1
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.7	10.9	7.3	7.3
80°	0.0	0.0	3.6	5.5	9.1	12.7	16.4	12.7	7.3	3.6
82.5°	0.0	0.0	3.6	7.3	9.1	14.5	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.5	20.0	14.5	7.3	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	10.9	9.1	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637478
 CATALOG NUMBER: IFLD-M-SA4B-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
57057.0	0°	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0	57057.0
55691.3	2.5°	56011.4	56302.4	56362.4	56282.3	56398.7	56189.6	56029.6	55615.0	55365.8
52159.8	5°	52496.2	52452.6	52756.3	52856.3	52843.6	52683.6	52459.9	52208.9	51965.2
46711.6	7.5°	47002.6	47059.0	47335.4	47511.8	47422.7	47222.6	47068.0	46878.9	46715.3
40787.0	10°	41159.8	40772.4	41116.1	41116.1	41354.3	40788.8	40841.5	40365.1	40386.9
33978.5	12.5°	34094.9	34234.9	34291.3	34453.2	34174.9	33874.9	33507.5	33434.8	33207.5
25395.3	15°	25760.8	26160.8	25817.1	26404.5	26120.8	25808.0	25751.7	25187.9	25366.2
18419.5	17.5°	18328.6	18770.5	18908.7	19245.1	18986.9	18801.4	18566.8	18395.9	18383.1
12894.9	20°	12996.8	13440.5	13542.3	13946.0	13916.9	13858.7	13660.5	13444.1	13209.5
8777.9	22.5°	8910.6	9272.5	9610.7	10154.5	10145.4	9974.4	9954.4	9648.9	9654.4
5930.1	25°	5991.9	6255.6	6335.6	6892.1	6953.9	6935.7	6832.1	6548.4	6655.7
3622.4	27.5°	3626.1	3857.0	4128.0	4324.4	4509.9	4480.8	4377.1	4218.9	4149.8
2176.7	30°	2234.9	2338.6	2438.6	2675.0	2785.9	2844.1	2795.0	2647.7	2658.6
1433.0	32.5°	1463.9	1551.2	1623.9	1773.0	1831.2	1938.5	1918.5	1887.6	1851.2
1031.1	35°	1067.5	1131.1	1180.2	1249.3	1323.9	1414.8	1429.3	1416.6	1402.1
796.5	37.5°	814.7	880.2	936.5	965.6	1023.8	1094.7	1134.7	1132.9	1122.0
649.2	40°	661.9	711.0	761.9	800.1	840.1	892.9	942.0	947.4	947.4
545.5	42.5°	552.8	594.6	645.6	685.6	714.7	763.8	814.7	818.3	814.7
461.9	45°	472.8	509.2	558.3	605.6	629.2	665.6	714.7	725.6	718.3
396.4	47.5°	411.0	443.7	485.5	536.5	561.9	594.6	640.1	652.8	651.0
341.9	50°	352.8	391.0	432.8	474.6	507.4	538.3	581.9	596.5	591.0
291.0	52.5°	311.0	345.5	381.9	427.3	465.5	492.8	527.4	552.8	545.5
245.5	55°	260.0	301.9	340.1	378.2	425.5	454.6	487.4	518.3	511.0
207.3	57.5°	225.5	260.0	303.7	338.2	385.5	420.1	452.8	485.5	483.7
169.1	60°	189.1	225.5	267.3	303.7	347.3	385.5	418.3	454.6	458.3
127.3	62.5°	149.1	192.8	229.1	271.0	314.6	356.4	385.5	421.9	427.3
96.4	65°	112.7	158.2	198.2	238.2	281.9	327.3	352.8	383.7	389.2
70.9	67.5°	83.7	121.8	169.1	205.5	251.0	294.6	318.2	343.7	352.8
43.6	70°	63.6	92.7	141.8	176.4	223.7	258.2	283.7	305.5	312.8
29.1	72.5°	40.0	72.7	114.6	150.9	192.8	223.7	241.9	254.6	265.5
16.4	75°	27.3	56.4	92.7	129.1	160.0	183.7	200.0	210.9	220.0
7.3	77.5°	16.4	43.6	76.4	107.3	127.3	145.5	161.8	169.1	174.6
5.5	80°	9.1	32.7	63.6	87.3	100.0	112.7	125.5	134.6	138.2
3.6	82.5°	5.5	25.5	50.9	67.3	72.7	85.5	98.2	103.7	103.7
1.8	85°	3.6	18.2	34.6	49.1	52.7	61.8	65.5	69.1	72.7
1.8	87.5°	3.6	10.9	21.8	27.3	29.1	32.7	34.6	38.2	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
57057.0
55182.2
51692.5
46160.6
40174.1
33000.2
25187.9
18044.9
13107.7
9548.9
6486.6
4089.8
2611.4
1838.5
1396.6
1116.6
936.5
811.0
718.3
647.4
587.4
543.7
514.6
485.5
460.1
431.0
394.6
356.4
316.4
263.7
218.2
172.8
134.6
101.8
70.9
40.0
0.0

(END OF REPORT)