

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: P637472

Luminaire Tested: **IFLD-S-SA6A-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637472
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19135.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

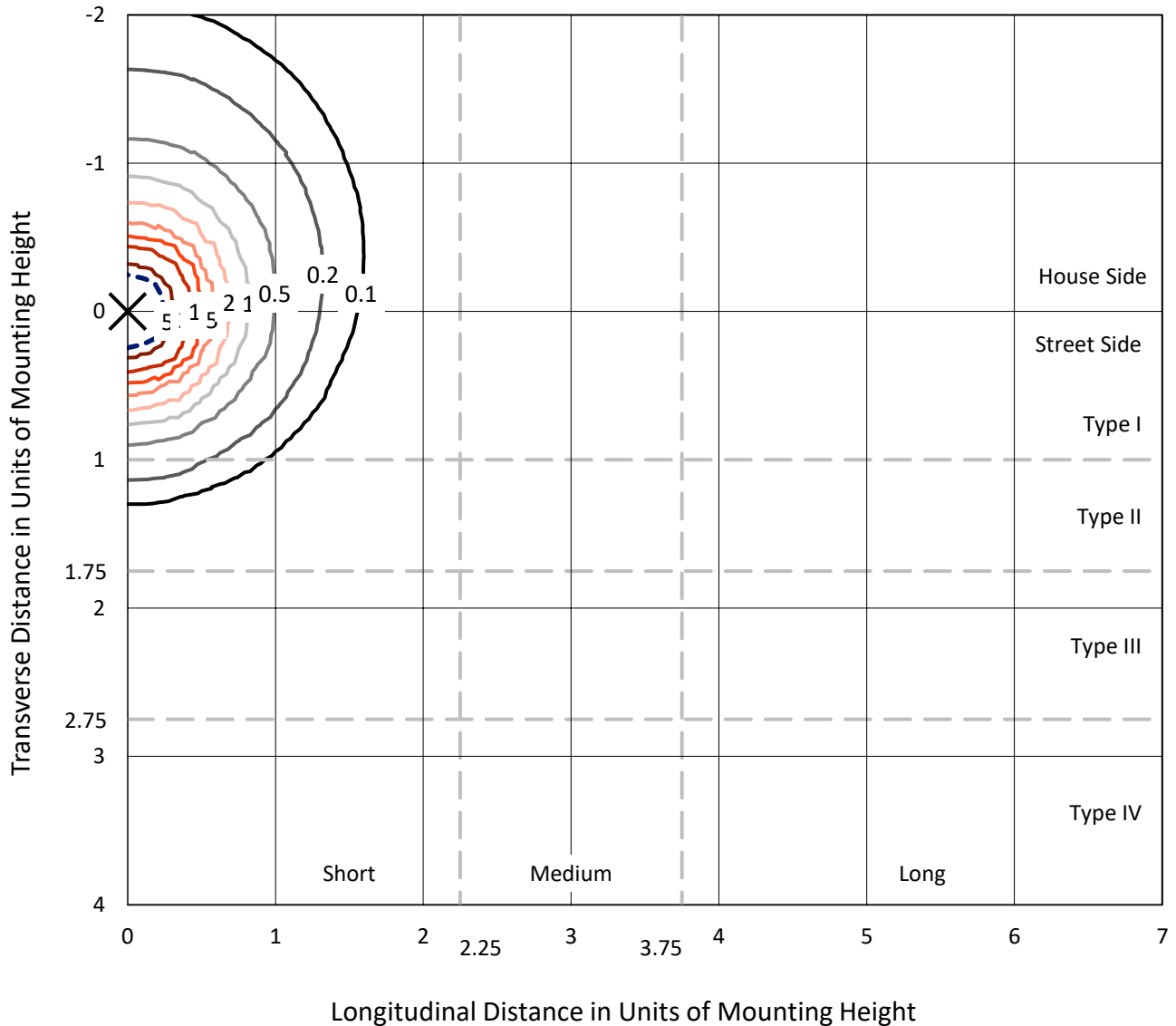
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637472
 CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

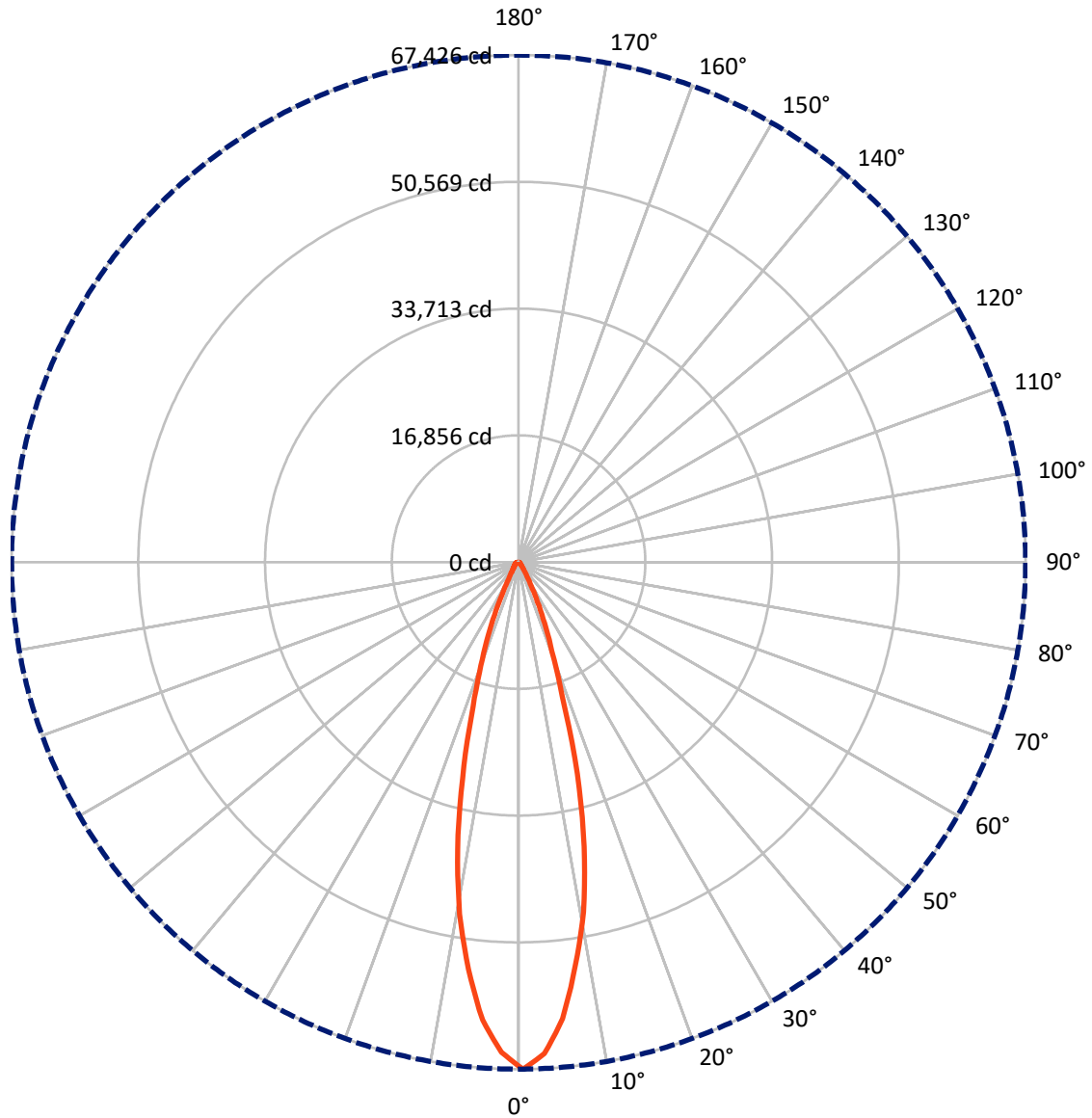
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 168.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637472
CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637472
 CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

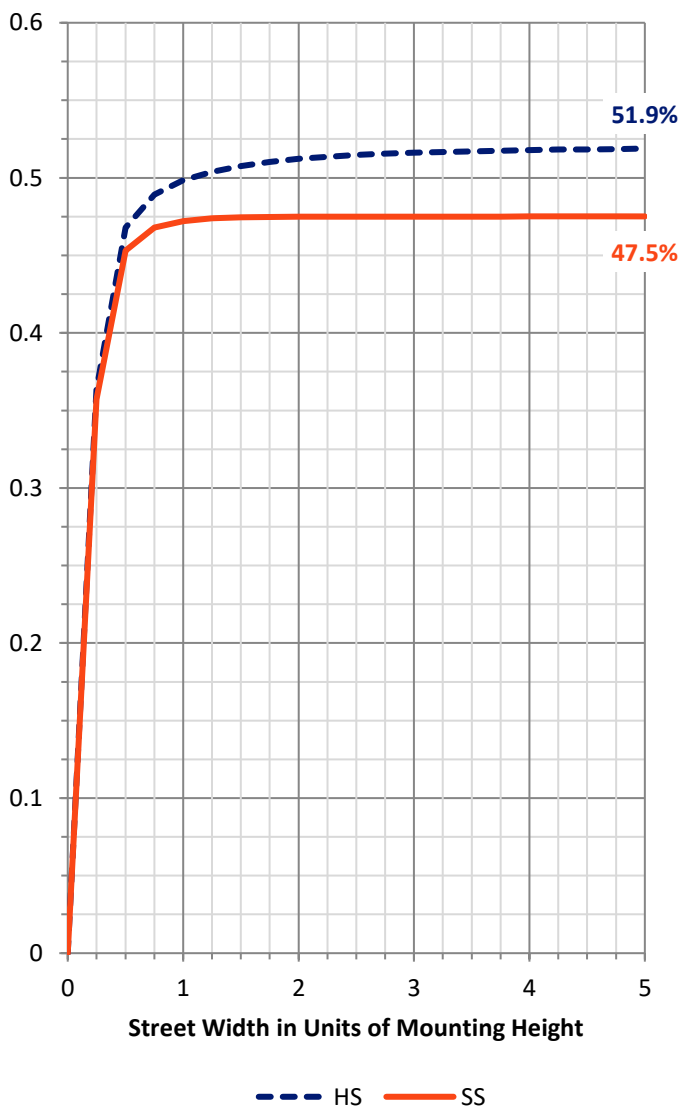
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10089.6	0.0	10089.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9046.0	0.0	9046.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	19135.6	0.0	19135.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5441.9	28.4
10°-20°	8241.6	43.1
20°-30°	3478.0	18.2
30°-40°	907.1	4.7
40°-50°	458.8	2.4
50°-60°	299.9	1.6
60°-70°	179.7	0.9
70°-80°	94.5	0.5
80°-90°	34.1	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°	19135.6	100.0
0°-180°	19135.6	100.0



REPORT NUMBER: P637472

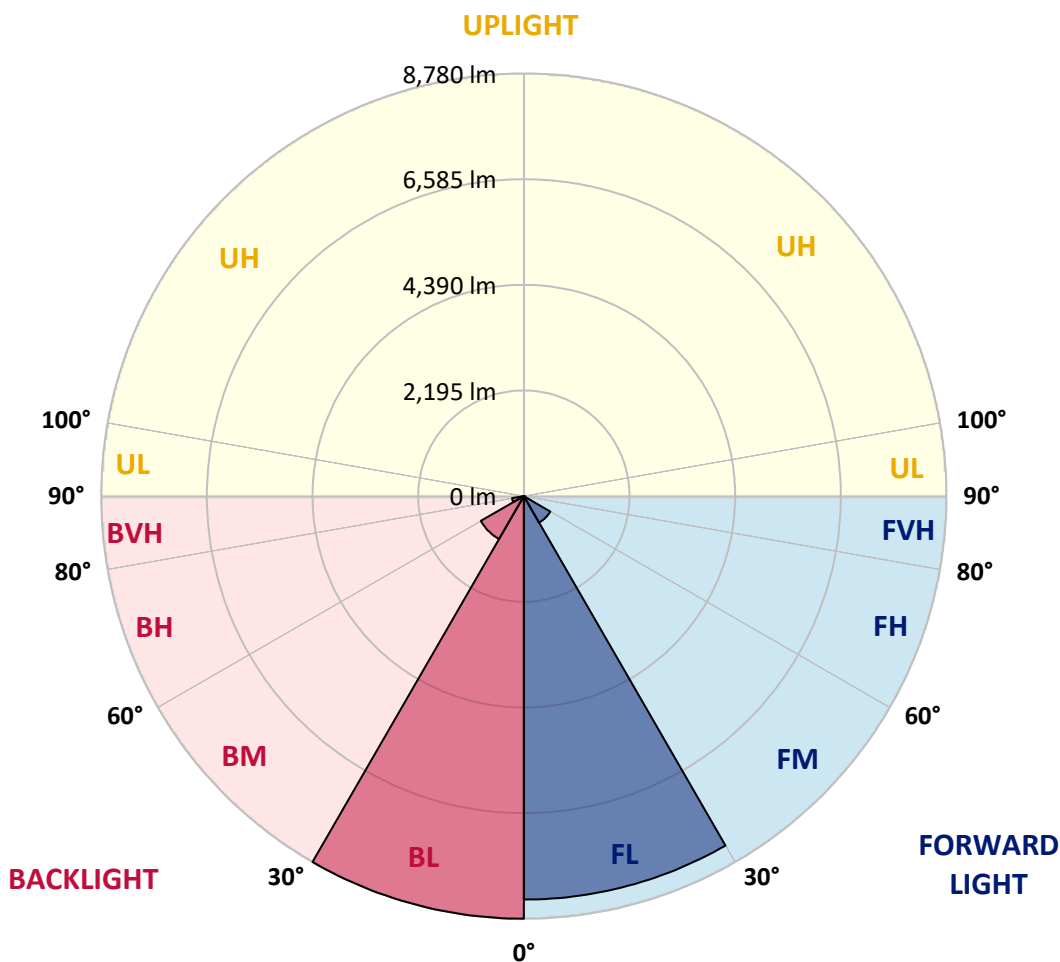
CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8381.3	43.8			
FM (30°-60°)	634.7	3.3			
FH (60°-80°)	25.9	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	8780.2	45.9	B5		
BM (30°-60°)	1031.0	5.4	B2/2500		
BH (60°-80°)	248.3	1.3	B1/500		G0/660
BVH (80°-90°)	30.0	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





REPORT NUMBER: P637472
 CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7
2.5°	65461.6	65498.1	65362.7	65655.0	65427.2	66037.5	65734.5	66207.3	66048.2	66312.6
5°	60991.7	60931.6	60892.9	61346.3	61215.2	61870.7	61451.6	61314.1	61739.6	61662.2
7.5°	54241.9	54400.9	54310.6	54428.8	54495.4	55243.3	55479.7	55294.8	55301.3	55408.7
10°	47322.2	47088.0	46754.9	46976.2	47444.7	47771.3	47640.3	47911.0	47850.9	48106.6
12.5°	38808.0	38992.8	38805.9	38608.2	39426.9	39336.7	39564.5	39712.7	39341.0	40168.3
15°	29232.3	29329.0	29556.8	29541.7	30171.4	30298.2	30268.1	30424.9	30134.8	30272.4
17.5°	18779.7	19106.4	19718.8	20754.6	21919.4	22054.8	22020.4	21891.4	21751.8	21597.0
20°	12614.4	12580.0	12801.3	13104.3	15515.5	16153.7	16134.4	15730.4	15145.9	15034.1
22.5°	8836.5	8901.0	8870.9	9171.8	9670.3	11430.3	11213.3	10802.8	10611.6	10486.9
25°	5812.9	5789.3	5939.7	6030.0	6457.6	6672.5	7433.2	7280.7	6986.3	7018.5
27.5°	3543.6	3573.7	3629.6	3707.0	4010.0	3941.2	4375.3	4433.3	4338.7	4237.7
30°	2174.7	2196.2	2241.4	2297.2	2402.5	2327.3	2447.7	2656.1	2621.7	2550.8
32.5°	1476.3	1478.5	1510.7	1532.2	1519.3	1448.4	1487.1	1684.8	1689.1	1682.6
35°	1061.6	1061.6	1091.7	1108.9	1072.3	1014.3	1020.8	1143.2	1197.0	1207.7
37.5°	732.8	734.9	786.5	838.1	797.3	782.2	756.4	838.1	924.1	936.9
40°	556.6	554.4	580.2	618.9	623.2	595.3	603.9	655.4	743.5	754.3
42.5°	451.3	453.4	466.3	462.0	464.2	500.7	513.6	537.2	618.9	638.2
45°	380.4	382.5	389.0	367.5	358.9	414.7	431.9	444.8	513.6	537.2
47.5°	313.7	318.0	324.5	300.9	296.6	333.1	363.2	376.1	436.2	462.0
50°	225.6	229.9	253.6	240.7	253.6	262.2	303.0	322.3	363.2	397.6
52.5°	163.3	167.6	174.1	176.2	208.4	212.7	242.8	272.9	292.3	330.9
55°	128.9	133.2	128.9	124.6	152.6	176.2	187.0	219.2	234.2	279.4
57.5°	73.1	77.4	83.8	96.7	101.0	135.4	146.1	174.1	187.0	229.9
60°	12.9	15.0	23.6	58.0	70.9	86.0	109.6	133.2	150.4	180.5
62.5°	2.1	2.1	4.3	12.9	40.8	60.2	79.5	94.6	109.6	137.5
65°	0.0	0.0	2.1	4.3	10.7	34.4	43.0	55.9	75.2	98.9
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	19.3	34.4	43.0	66.6
70°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	15.0	25.8	40.8
72.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	12.9	12.9	25.8
75°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	12.9	10.7	10.7
77.5°	0.0	0.0	2.1	4.3	8.6	12.9	15.0	12.9	8.6	8.6
80°	0.0	0.0	4.3	6.4	10.7	15.0	19.3	15.0	8.6	4.3
82.5°	0.0	0.0	4.3	8.6	10.7	17.2	23.6	19.3	8.6	4.3
85°	0.0	0.0	2.1	6.4	12.9	17.2	23.6	17.2	8.6	2.1
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	12.9	10.7	4.3	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637472
 CATALOG NUMBER: IFLD-S-SA6A-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
67425.7	0°	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7	67425.7
65811.8	2.5°	66190.1	66533.9	66604.8	66510.3	66647.8	66400.7	66211.5	65721.6	65427.2
61638.6	5°	62036.1	61984.5	62343.4	62461.6	62446.6	62257.5	61993.1	61696.6	61408.6
55200.3	7.5°	55544.1	55610.7	55937.4	56145.8	56040.5	55804.1	55621.5	55398.0	55204.6
48199.0	10°	48639.5	48181.8	48587.9	48587.9	48869.5	48201.1	48263.5	47700.4	47726.2
40153.3	12.5°	40290.8	40456.3	40522.9	40714.2	40385.4	40030.8	39596.7	39510.7	39242.1
30010.2	15°	30442.1	30914.9	30508.8	31202.9	30867.6	30498.0	30431.4	29765.2	29975.8
21766.8	17.5°	21659.3	22181.5	22344.9	22742.4	22437.3	22218.1	21940.9	21738.9	21723.8
15238.3	20°	15358.6	15882.9	16003.3	16480.4	16446.0	16377.2	16143.0	15887.2	15610.0
10373.0	22.5°	10529.9	10957.5	11357.2	11999.8	11989.0	11787.0	11763.4	11402.4	11408.8
7007.8	25°	7080.8	7392.4	7487.0	8144.6	8217.6	8196.1	8073.6	7738.4	7865.2
4280.7	27.5°	4285.0	4557.9	4878.1	5110.2	5329.4	5295.0	5172.5	4985.6	4903.9
2572.3	30°	2641.1	2763.6	2881.8	3161.1	3292.2	3361.0	3302.9	3128.9	3141.8
1693.4	32.5°	1729.9	1833.1	1919.0	2095.2	2164.0	2290.8	2267.2	2230.6	2187.6
1218.5	35°	1261.4	1336.7	1394.7	1476.3	1564.4	1671.9	1689.1	1674.0	1656.8
941.2	37.5°	962.7	1040.1	1106.7	1141.1	1209.9	1293.7	1340.9	1338.8	1325.9
767.2	40°	782.2	840.2	900.4	945.5	992.8	1055.1	1113.2	1119.6	1119.6
644.7	42.5°	653.3	702.7	762.9	810.2	844.5	902.6	962.7	967.0	962.7
545.8	45°	558.7	601.7	659.7	715.6	743.5	786.5	844.5	857.4	848.8
468.5	47.5°	485.7	524.3	573.8	633.9	664.0	702.7	756.4	771.5	769.3
404.0	50°	416.9	462.0	511.5	560.9	599.6	636.1	687.7	704.9	698.4
343.8	52.5°	367.5	408.3	451.3	505.0	550.1	582.4	623.2	653.3	644.7
290.1	55°	307.3	356.7	401.9	447.0	502.9	537.2	575.9	612.5	603.9
245.0	57.5°	266.5	307.3	358.9	399.7	455.6	496.4	535.1	573.8	571.6
199.9	60°	223.5	266.5	315.9	358.9	410.5	455.6	494.3	537.2	541.5
150.4	62.5°	176.2	227.8	270.8	320.2	371.8	421.2	455.6	498.6	505.0
113.9	65°	133.2	187.0	234.2	281.5	333.1	386.8	416.9	453.4	459.9
83.8	67.5°	98.9	144.0	199.9	242.8	296.6	348.1	376.1	406.2	416.9
51.6	70°	75.2	109.6	167.6	208.4	264.3	305.2	335.2	361.0	369.6
34.4	72.5°	47.3	86.0	135.4	178.4	227.8	264.3	285.8	300.9	313.7
19.3	75°	32.2	66.6	109.6	152.6	189.1	217.0	236.4	249.3	260.0
8.6	77.5°	19.3	51.6	90.3	126.8	150.4	171.9	191.3	199.9	206.3
6.4	80°	10.7	38.7	75.2	103.1	118.2	133.2	148.3	159.0	163.3
4.3	82.5°	6.4	30.1	60.2	79.5	86.0	101.0	116.0	122.5	122.5
2.1	85°	4.3	21.5	40.8	58.0	62.3	73.1	77.4	81.7	86.0
2.1	87.5°	4.3	12.9	25.8	32.2	34.4	38.7	40.8	45.1	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
67425.7
65210.1
61086.3
54549.2
47474.8
38997.1
29765.2
21324.1
15489.7
11284.2
7665.3
4833.0
3085.9
2172.6
1650.4
1319.5
1106.7
958.4
848.8
765.0
694.1
642.5
608.2
573.8
543.7
509.3
466.3
421.2
373.9
311.6
257.9
204.2
159.0
120.3
83.8
47.3
0.0

(END OF REPORT)