

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: P637473

Luminaire Tested: **IFLD-S-SA6B-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637473  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-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: 23665.9 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

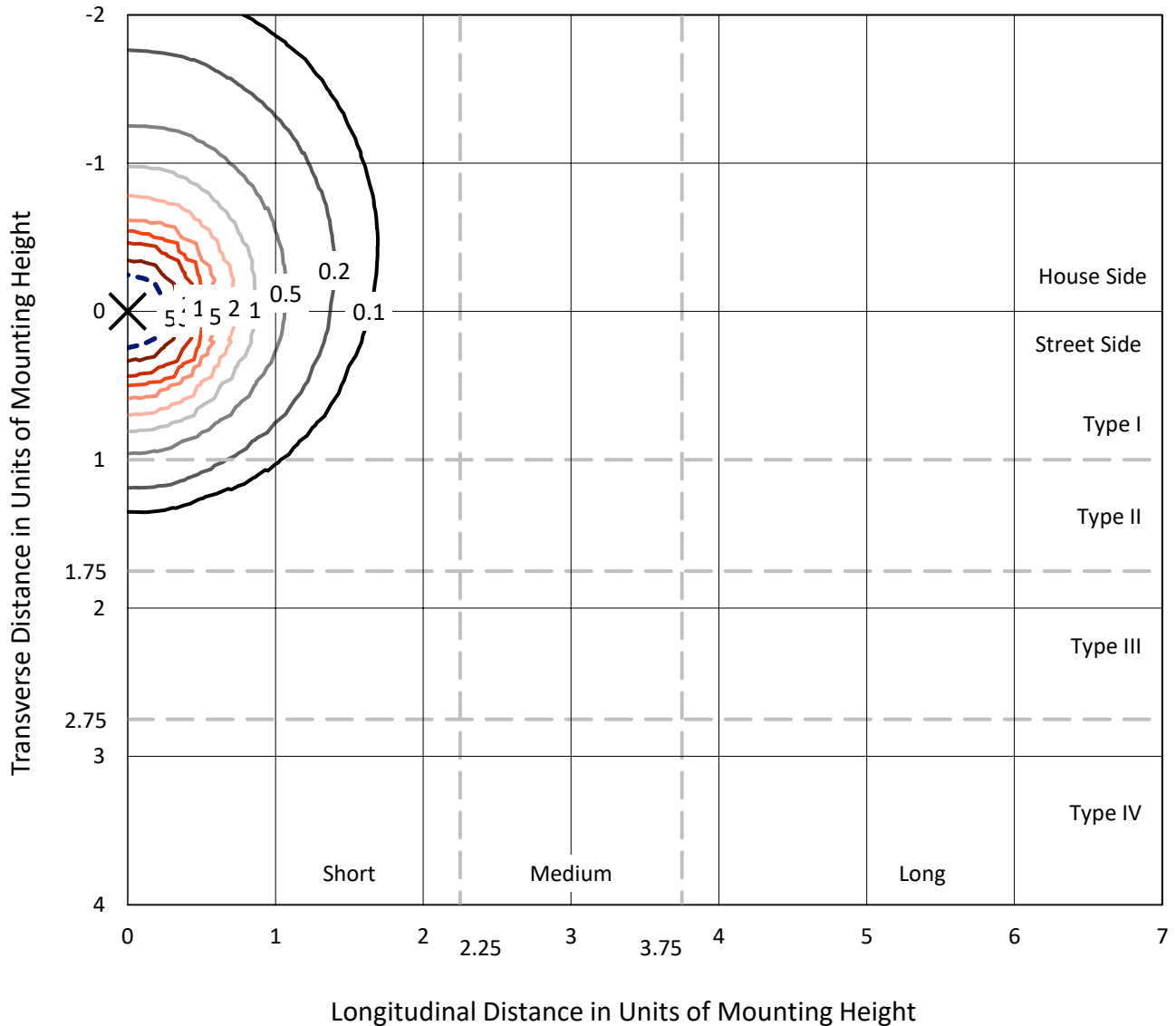
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637473  
 CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

### Iso-Footcandle Lines of Horizontal Illumination

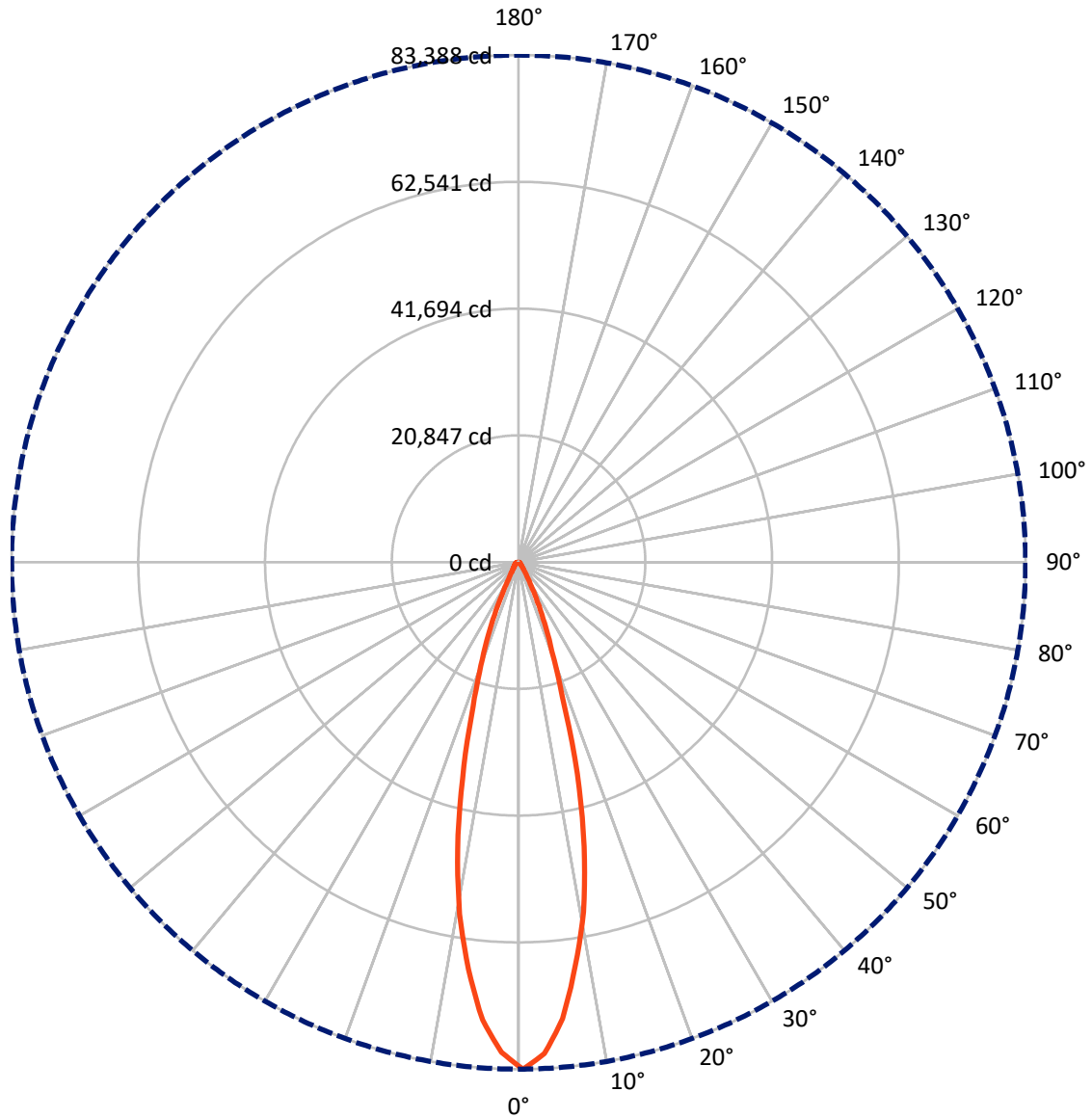
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 208.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P637473  
CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637473  
 CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

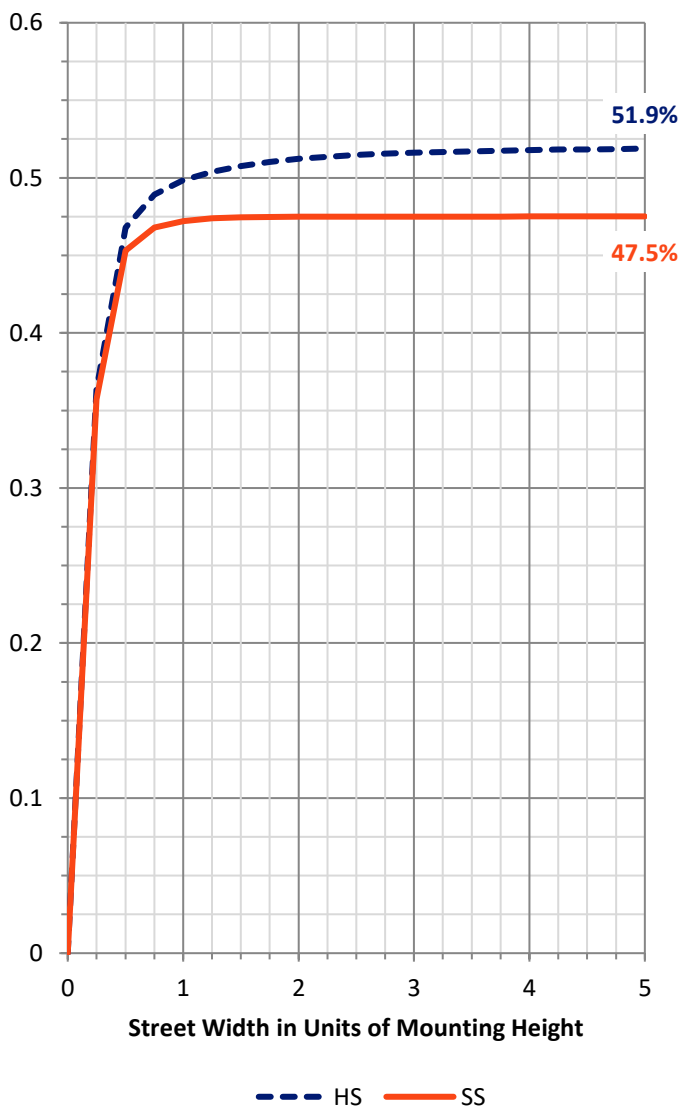
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12478.3	0.0	12478.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	11187.6	0.0	11187.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	23665.9	0.0	23665.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6730.2	28.4
10°-20°	10192.8	43.1
20°-30°	4301.4	18.2
30°-40°	1121.8	4.7
40°-50°	567.4	2.4
50°-60°	370.9	1.6
60°-70°	222.2	0.9
70°-80°	116.9	0.5
80°-90°	42.2	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°	23665.9	100.0
0°-180°	23665.9	100.0

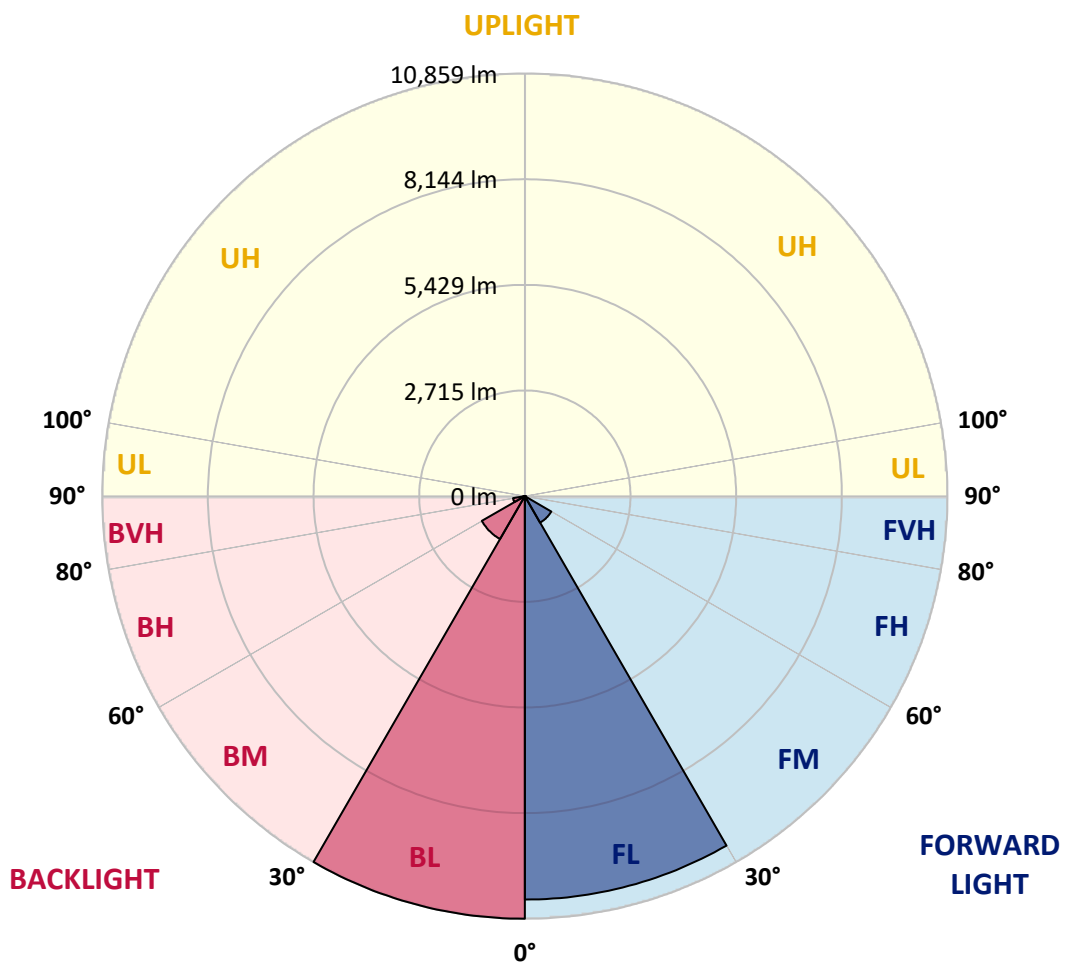


REPORT NUMBER: P637473  
 CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10365.5	43.8			
FM (30°-60°)	785.0	3.3			
FH (60°-80°)	32.0	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	10858.9	45.9	B5		
BM (30°-60°)	1275.1	5.4	B2/2500		
BH (60°-80°)	307.1	1.3	B1/500		G0/660
BVH (80°-90°)	37.1	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: P637473  
 CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4
2.5°	80959.3	81004.4	80837.0	81198.5	80916.7	81671.5	81296.8	81881.5	81684.8	82011.7
5°	75431.2	75356.8	75309.0	75869.7	75707.6	76518.2	76000.0	75829.9	76356.1	76260.4
7.5°	67083.3	67280.0	67168.4	67314.6	67397.0	68321.8	68614.2	68385.6	68393.6	68526.5
10°	58525.5	58235.8	57823.9	58097.6	58677.0	59081.0	58918.8	59253.7	59179.3	59495.6
12.5°	47995.6	48224.2	47993.0	47748.5	48761.1	48649.4	48931.2	49114.5	48654.8	49678.0
15°	36152.9	36272.5	36554.2	36535.6	37314.3	37471.1	37433.9	37627.9	37269.1	37439.2
17.5°	23225.8	23629.7	24387.2	25668.2	27108.7	27276.1	27233.6	27074.1	26901.4	26710.0
20°	15600.8	15558.3	15832.0	16206.7	19188.7	19978.0	19954.1	19454.5	18731.6	18593.4
22.5°	10928.5	11008.2	10971.0	11343.1	11959.7	14136.4	13867.9	13360.3	13123.8	12969.6
25°	7189.1	7159.9	7345.9	7457.5	7986.4	8252.2	9193.0	9004.3	8640.2	8680.1
27.5°	4382.6	4419.8	4488.9	4584.6	4959.3	4874.2	5411.1	5482.9	5365.9	5241.0
30°	2689.6	2716.2	2772.0	2841.1	2971.3	2878.3	3027.1	3284.9	3242.4	3154.7
32.5°	1825.8	1828.5	1868.4	1894.9	1879.0	1791.3	1839.1	2083.6	2089.0	2081.0
35°	1312.9	1312.9	1350.1	1371.4	1326.2	1254.4	1262.4	1413.9	1480.3	1493.6
37.5°	906.3	908.9	972.7	1036.5	986.0	967.4	935.5	1036.5	1142.8	1158.8
40°	688.3	685.7	717.6	765.4	770.7	736.2	746.8	810.6	919.6	932.9
42.5°	558.1	560.8	576.7	571.4	574.1	619.2	635.2	664.4	765.4	789.3
45°	470.4	473.1	481.0	454.5	443.8	512.9	534.2	550.1	635.2	664.4
47.5°	388.0	393.3	401.3	372.1	366.8	411.9	449.2	465.1	539.5	571.4
50°	279.1	284.4	313.6	297.7	313.6	324.2	374.7	398.7	449.2	491.7
52.5°	202.0	207.3	215.3	217.9	257.8	263.1	300.3	337.5	361.4	409.3
55°	159.5	164.8	159.5	154.1	188.7	217.9	231.2	271.1	289.7	345.5
57.5°	90.4	95.7	103.7	119.6	124.9	167.4	180.7	215.3	231.2	284.4
60°	15.9	18.6	29.2	71.8	87.7	106.3	135.5	164.8	186.0	223.2
62.5°	2.7	2.7	5.3	15.9	50.5	74.4	98.3	116.9	135.5	170.1
65°	0.0	0.0	2.7	5.3	13.3	42.5	53.2	69.1	93.0	122.3
67.5°	0.0	0.0	2.7	5.3	8.0	15.9	23.9	42.5	53.2	82.4
70°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	18.6	31.9	50.5
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	15.9	15.9	31.9
75°	0.0	0.0	2.7	5.3	8.0	13.3	15.9	15.9	13.3	13.3
77.5°	0.0	0.0	2.7	5.3	10.6	15.9	18.6	15.9	10.6	10.6
80°	0.0	0.0	5.3	8.0	13.3	18.6	23.9	18.6	10.6	5.3
82.5°	0.0	0.0	5.3	10.6	13.3	21.3	29.2	23.9	10.6	5.3
85°	0.0	0.0	2.7	8.0	15.9	21.3	29.2	21.3	10.6	2.7
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	15.9	13.3	5.3	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637473

CATALOG NUMBER: IFLD-S-SA6B-827-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
83388.4	0°	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4	83388.4
81392.5	2.5°	81860.2	82285.5	82373.2	82256.2	82426.3	82120.7	81886.8	81280.8	80916.7
76231.2	5°	76722.9	76659.1	77102.9	77249.1	77230.5	76996.6	76669.7	76302.9	75946.8
68268.7	7.5°	68693.9	68776.3	69180.3	69438.1	69307.8	69015.5	68789.6	68513.2	68274.0
59609.9	10°	60154.7	59588.6	60090.9	60090.9	60439.1	59612.5	59689.6	58993.3	59025.2
49659.4	12.5°	49829.5	50034.1	50116.5	50353.0	49946.4	49507.9	48971.0	48864.7	48532.5
37115.0	15°	37649.2	38233.9	37731.6	38590.0	38175.4	37718.3	37635.9	36812.0	37072.4
26920.0	17.5°	26787.1	27432.9	27634.9	28126.6	27749.2	27478.1	27135.3	26885.4	26866.8
18845.8	20°	18994.7	19643.2	19792.0	20382.0	20339.5	20254.4	19964.7	19648.5	19305.6
12828.8	22.5°	13022.8	13551.7	14046.0	14840.7	14827.4	14577.6	14548.3	14101.8	14109.8
8666.8	25°	8757.2	9142.5	9259.5	10072.7	10163.1	10136.5	9985.0	9570.4	9727.2
5294.2	27.5°	5299.5	5637.0	6033.0	6320.0	6591.1	6548.6	6397.1	6165.9	6064.9
3181.3	30°	3266.3	3417.8	3564.0	3909.5	4071.6	4156.7	4084.9	3869.6	3885.6
2094.3	32.5°	2139.5	2267.0	2373.3	2591.3	2676.3	2833.1	2803.9	2758.7	2705.6
1506.9	35°	1560.1	1653.1	1724.9	1825.8	1934.8	2067.7	2089.0	2070.4	2049.1
1164.1	37.5°	1190.7	1286.3	1368.7	1411.2	1496.3	1599.9	1658.4	1655.8	1639.8
948.8	40°	967.4	1039.2	1113.6	1169.4	1227.9	1304.9	1376.7	1384.7	1384.7
797.3	42.5°	807.9	869.1	943.5	1002.0	1044.5	1116.2	1190.7	1196.0	1190.7
675.1	45°	691.0	744.2	815.9	885.0	919.6	972.7	1044.5	1060.4	1049.8
579.4	47.5°	600.6	648.5	709.6	784.0	821.2	869.1	935.5	954.1	951.5
499.7	50°	515.6	571.4	632.5	693.7	741.5	786.7	850.5	871.7	863.8
425.2	52.5°	454.5	505.0	558.1	624.6	680.4	720.2	770.7	807.9	797.3
358.8	55°	380.1	441.2	497.0	552.8	621.9	664.4	712.3	757.4	746.8
303.0	57.5°	329.6	380.1	443.8	494.3	563.4	613.9	661.8	709.6	707.0
247.2	60°	276.4	329.6	390.7	443.8	507.6	563.4	611.3	664.4	669.7
186.0	62.5°	217.9	281.7	334.9	396.0	459.8	520.9	563.4	616.6	624.6
140.9	65°	164.8	231.2	289.7	348.2	411.9	478.4	515.6	560.8	568.8
103.7	67.5°	122.3	178.1	247.2	300.3	366.8	430.5	465.1	502.3	515.6
63.8	70°	93.0	135.5	207.3	257.8	326.9	377.4	414.6	446.5	457.1
42.5	72.5°	58.5	106.3	167.4	220.6	281.7	326.9	353.5	372.1	388.0
23.9	75°	39.9	82.4	135.5	188.7	233.9	268.4	292.3	308.3	321.6
10.6	77.5°	23.9	63.8	111.6	156.8	186.0	212.6	236.5	247.2	255.1
8.0	80°	13.3	47.8	93.0	127.6	146.2	164.8	183.4	196.7	202.0
5.3	82.5°	8.0	37.2	74.4	98.3	106.3	124.9	143.5	151.5	151.5
2.7	85°	5.3	26.6	50.5	71.8	77.1	90.4	95.7	101.0	106.3
2.7	87.5°	5.3	15.9	31.9	39.9	42.5	47.8	50.5	55.8	61.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
83388.4
80648.3
75548.2
67463.4
58714.2
48229.5
36812.0
26372.5
19156.8
13955.7
9480.1
5977.2
3816.5
2686.9
2041.1
1631.8
1368.7
1185.3
1049.8
946.1
858.4
794.7
752.1
709.6
672.4
629.9
576.7
520.9
462.4
385.4
318.9
252.5
196.7
148.8
103.7
58.5
0.0

(END OF REPORT)