

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: P637481

Luminaire Tested: **IFLD-M-SA4E-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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: 25668.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

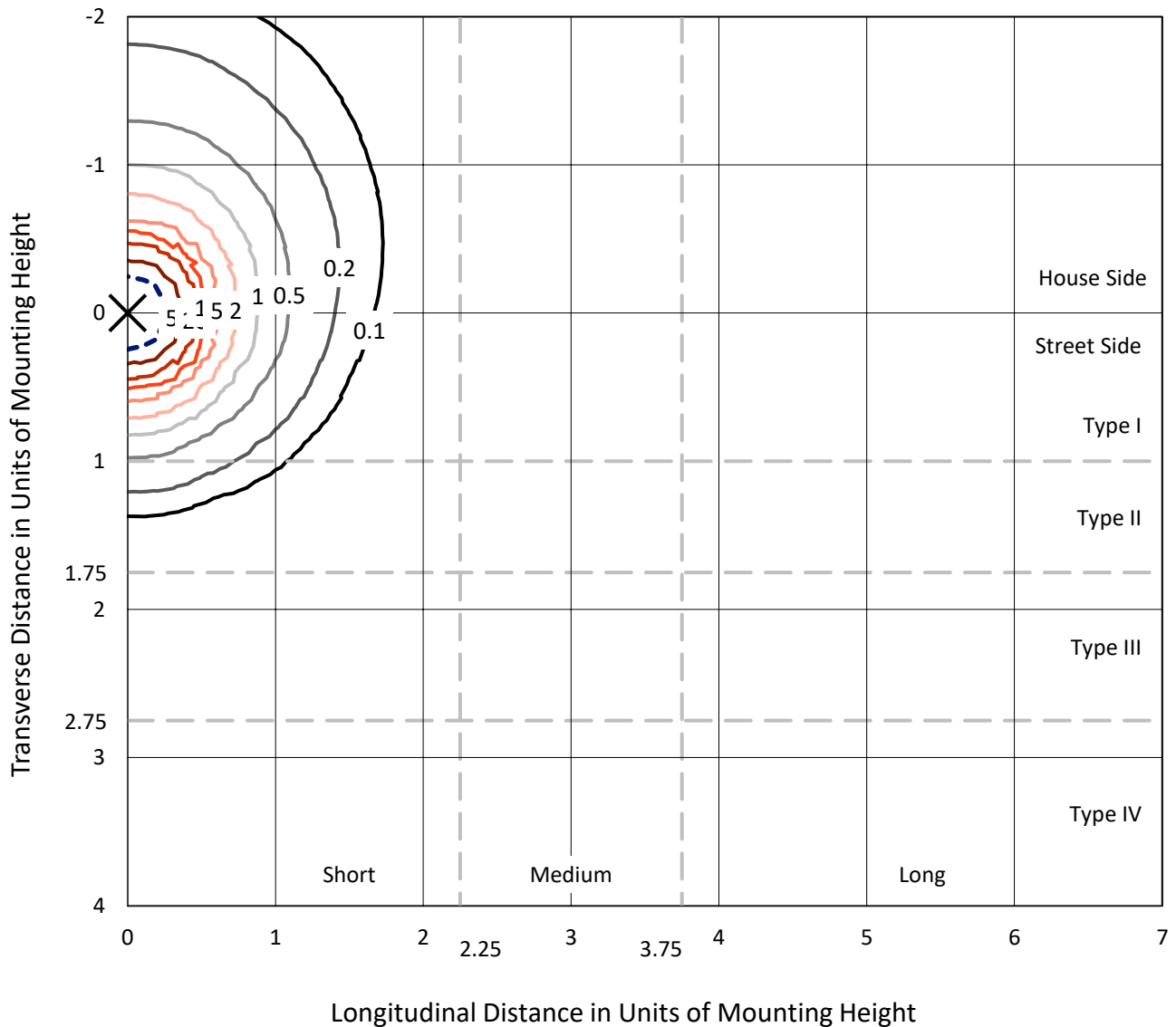
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637481
 CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

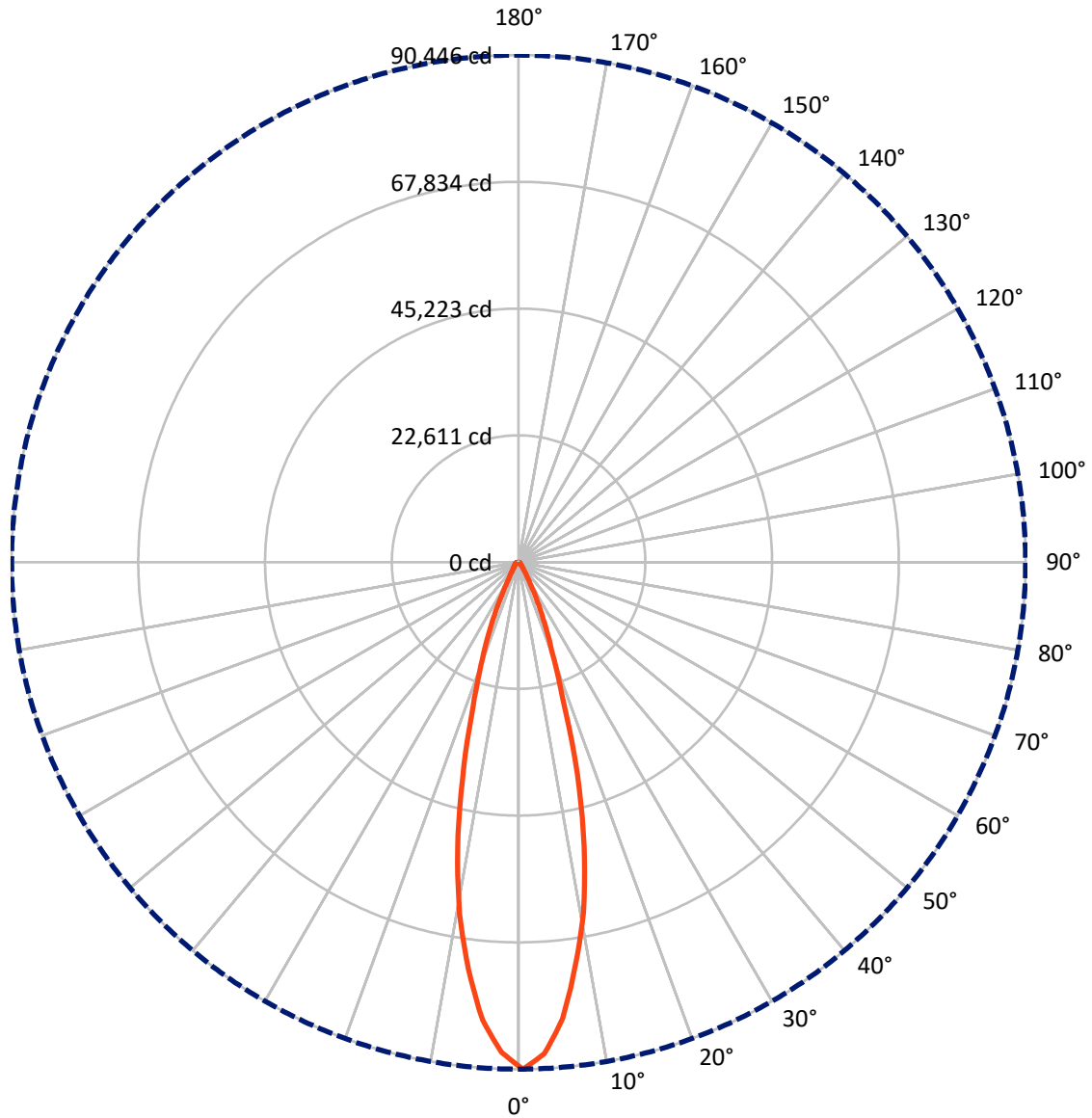
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 226.1 fc
 Type V - Short - N/A

REPORT NUMBER: P637481
CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

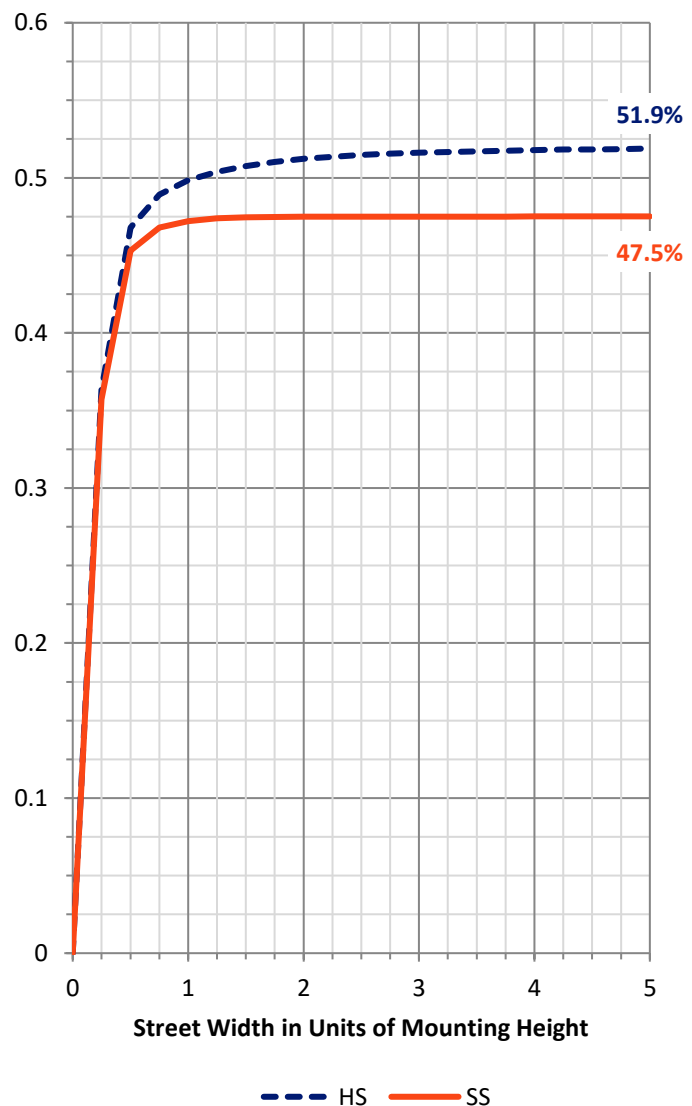
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13534.3	0.0	13534.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12134.4	0.0	12134.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	25668.7	0.0	25668.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7299.8	28.4
10°-20°	11055.4	43.1
20°-30°	4665.4	18.2
30°-40°	1216.8	4.7
40°-50°	615.4	2.4
50°-60°	402.3	1.6
60°-70°	241.0	0.9
70°-80°	126.8	0.5
80°-90°	45.8	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°	25668.7	100.0
0°-180°	25668.7	100.0



REPORT NUMBER: P637481

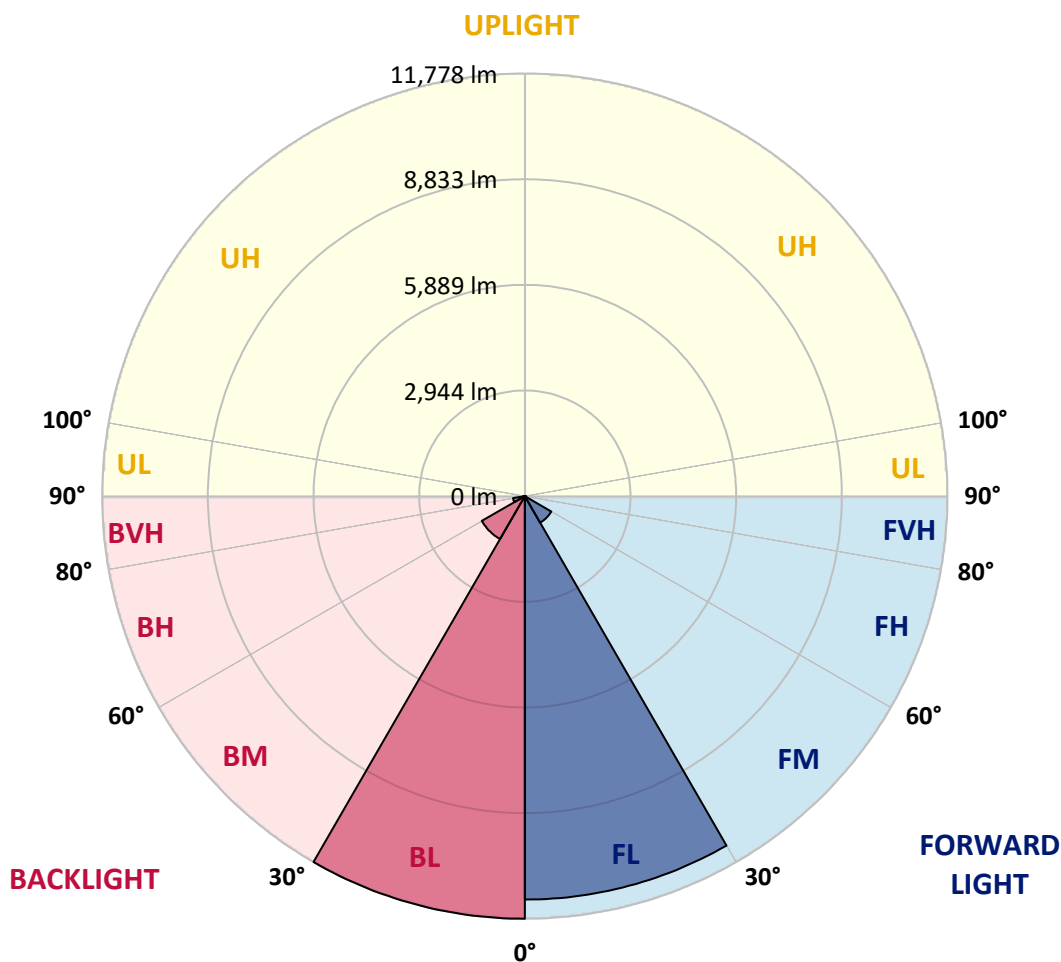
CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11242.7	43.8			
FM (30°-60°)	851.4	3.3			
FH (60°-80°)	34.7	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	11777.9	45.9	B5		
BM (30°-60°)	1383.1	5.4	B2/2500		
BH (60°-80°)	333.1	1.3	B1/500		G0/660
BVH (80°-90°)	40.2	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: P637481
 CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6
2.5°	87810.8	87859.8	87678.2	88070.3	87764.7	88583.4	88176.9	88811.1	88597.8	88952.4
5°	81814.9	81734.2	81682.3	82290.6	82114.7	82993.9	82431.8	82247.3	82818.1	82714.3
7.5°	72760.6	72973.9	72852.8	73011.4	73100.7	74103.9	74421.0	74173.1	74181.7	74325.9
10°	63478.5	63164.3	62717.5	63014.4	63642.8	64081.0	63905.1	64268.3	64187.6	64530.7
12.5°	52057.5	52305.4	52054.6	51789.4	52887.7	52766.6	53072.2	53271.1	52772.4	53882.2
15°	39212.5	39342.2	39647.8	39627.6	40472.2	40642.3	40601.9	40812.3	40423.2	40607.7
17.5°	25191.3	25629.5	26451.1	27840.5	29402.9	29584.5	29538.4	29365.4	29178.0	28970.5
20°	16921.1	16874.9	17171.9	17578.3	20812.6	21668.8	21642.8	21100.9	20316.8	20166.9
22.5°	11853.4	11939.9	11899.5	12303.1	12971.9	15332.7	15041.6	14491.0	14234.5	14067.3
25°	7797.5	7765.8	7967.6	8088.7	8662.3	8950.6	9971.0	9766.4	9371.4	9414.7
27.5°	4753.5	4793.8	4868.8	4972.5	5379.0	5286.8	5869.0	5946.9	5820.0	5684.6
30°	2917.2	2946.1	3006.6	3081.5	3222.8	3121.9	3283.3	3562.9	3516.8	3421.7
32.5°	1980.4	1983.3	2026.5	2055.3	2038.0	1942.9	1994.8	2260.0	2265.8	2257.1
35°	1424.0	1424.0	1464.4	1487.4	1438.4	1360.6	1369.3	1533.6	1605.6	1620.0
37.5°	983.0	985.9	1055.0	1124.2	1069.5	1049.3	1014.7	1124.2	1239.5	1256.8
40°	746.6	743.7	778.3	830.2	836.0	798.5	810.0	879.2	997.4	1011.8
42.5°	605.4	608.2	625.5	619.8	622.6	671.7	688.9	720.7	830.2	856.1
45°	510.2	513.1	521.8	492.9	481.4	556.3	579.4	596.7	688.9	720.7
47.5°	420.9	426.6	435.3	403.6	397.8	446.8	487.2	504.5	585.2	619.8
50°	302.7	308.4	340.2	322.9	340.2	351.7	406.5	432.4	487.2	533.3
52.5°	219.1	224.8	233.5	236.4	279.6	285.4	325.7	366.1	392.0	443.9
55°	173.0	178.7	173.0	167.2	204.7	236.4	250.8	294.0	314.2	374.7
57.5°	98.0	103.8	112.4	129.7	135.5	181.6	196.0	233.5	250.8	308.4
60°	17.3	20.2	31.7	77.8	95.1	115.3	147.0	178.7	201.8	242.1
62.5°	2.9	2.9	5.8	17.3	54.8	80.7	106.7	126.8	147.0	184.5
65°	0.0	0.0	2.9	5.8	14.4	46.1	57.7	74.9	100.9	132.6
67.5°	0.0	0.0	2.9	5.8	8.6	17.3	25.9	46.1	57.7	89.4
70°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	20.2	34.6	54.8
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	17.3	17.3	34.6
75°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	17.3	14.4	14.4
77.5°	0.0	0.0	2.9	5.8	11.5	17.3	20.2	17.3	11.5	11.5
80°	0.0	0.0	5.8	8.6	14.4	20.2	25.9	20.2	11.5	5.8
82.5°	0.0	0.0	5.8	11.5	14.4	23.1	31.7	25.9	11.5	5.8
85°	0.0	0.0	2.9	8.6	17.3	23.1	31.7	23.1	11.5	2.9
87.5°	0.0	0.0	2.9	2.9	5.8	8.6	17.3	14.4	5.8	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637481
 CATALOG NUMBER: IFLD-M-SA4E-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
90445.6	0°	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6	90445.6
88280.7	2.5°	88788.0	89249.3	89344.4	89217.6	89402.0	89070.5	88816.9	88159.6	87764.7
82682.6	5°	83215.9	83146.7	83628.1	83786.7	83766.5	83512.8	83158.3	82760.5	82374.2
74046.2	7.5°	74507.5	74596.8	75035.0	75314.6	75173.4	74856.3	74611.2	74311.4	74052.0
64654.6	10°	65245.6	64631.6	65176.4	65176.4	65554.0	64657.5	64741.1	63985.8	64020.4
53862.0	12.5°	54046.5	54268.5	54357.8	54614.4	54173.4	53697.7	53115.4	53000.1	52639.8
40256.0	15°	40835.4	41469.6	40924.8	41855.9	41406.2	40910.4	40821.0	39927.4	40209.9
29198.2	17.5°	29054.1	29754.6	29973.6	30506.9	30097.6	29803.6	29431.7	29160.7	29140.6
20440.8	20°	20602.2	21305.6	21467.0	22106.9	22060.8	21968.6	21654.4	21311.3	20939.5
13914.5	22.5°	14124.9	14698.6	15234.7	16096.6	16082.2	15811.3	15779.5	15295.3	15303.9
9400.3	25°	9498.3	9916.3	10043.1	10925.2	11023.2	10994.4	10830.1	10380.4	10550.4
5742.2	27.5°	5748.0	6114.1	6543.6	6854.9	7148.9	7102.8	6938.5	6687.7	6578.2
3450.5	30°	3542.8	3707.1	3865.6	4240.4	4416.2	4508.4	4430.6	4197.1	4214.4
2271.5	32.5°	2320.5	2458.9	2574.2	2810.6	2902.8	3072.9	3041.2	2992.2	2934.5
1634.5	35°	1692.1	1793.0	1870.8	1980.4	2098.6	2242.7	2265.8	2245.6	2222.5
1262.6	37.5°	1291.4	1395.2	1484.6	1530.7	1622.9	1735.3	1798.8	1795.9	1778.6
1029.1	40°	1049.3	1127.1	1207.8	1268.4	1331.8	1415.4	1493.2	1501.9	1501.9
864.8	42.5°	876.3	942.6	1023.3	1086.8	1132.9	1210.7	1291.4	1297.2	1291.4
732.2	45°	749.5	807.1	885.0	959.9	997.4	1055.0	1132.9	1150.2	1138.6
628.4	47.5°	651.5	703.4	769.7	850.4	890.7	942.6	1014.7	1034.9	1032.0
541.9	50°	559.2	619.8	686.1	752.4	804.3	853.3	922.4	945.5	936.9
461.2	52.5°	492.9	547.7	605.4	677.4	738.0	781.2	836.0	876.3	864.8
389.2	55°	412.2	478.5	539.1	599.6	674.5	720.7	772.5	821.6	810.0
328.6	57.5°	357.4	412.2	481.4	536.2	611.1	665.9	717.8	769.7	766.8
268.1	60°	299.8	357.4	423.7	481.4	550.6	611.1	663.0	720.7	726.4
201.8	62.5°	236.4	305.6	363.2	429.5	498.7	565.0	611.1	668.8	677.4
152.8	65°	178.7	250.8	314.2	377.6	446.8	518.9	559.2	608.2	616.9
112.4	67.5°	132.6	193.1	268.1	325.7	397.8	467.0	504.5	544.8	559.2
69.2	70°	100.9	147.0	224.8	279.6	354.6	409.3	449.7	484.3	495.8
46.1	72.5°	63.4	115.3	181.6	239.3	305.6	354.6	383.4	403.6	420.9
25.9	75°	43.2	89.4	147.0	204.7	253.7	291.1	317.1	334.4	348.8
11.5	77.5°	25.9	69.2	121.1	170.1	201.8	230.6	256.6	268.1	276.7
8.6	80°	14.4	51.9	100.9	138.4	158.5	178.7	198.9	213.3	219.1
5.8	82.5°	8.6	40.4	80.7	106.7	115.3	135.5	155.7	164.3	164.3
2.9	85°	5.8	28.8	54.8	77.8	83.6	98.0	103.8	109.5	115.3
2.9	87.5°	5.8	17.3	34.6	43.2	46.1	51.9	54.8	60.5	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
90445.6
87473.6
81941.8
73172.8
63683.2
52311.2
39927.4
28604.4
20778.0
15136.7
10282.4
6483.0
4139.5
2914.3
2213.9
1769.9
1484.6
1285.7
1138.6
1026.2
931.1
861.9
815.8
769.7
729.3
683.2
625.5
565.0
501.6
418.0
345.9
273.9
213.3
161.4
112.4
63.4
0.0

(END OF REPORT)