

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: P637458

Luminaire Tested: **IFLD-L-SA8A-760-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33796.2 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

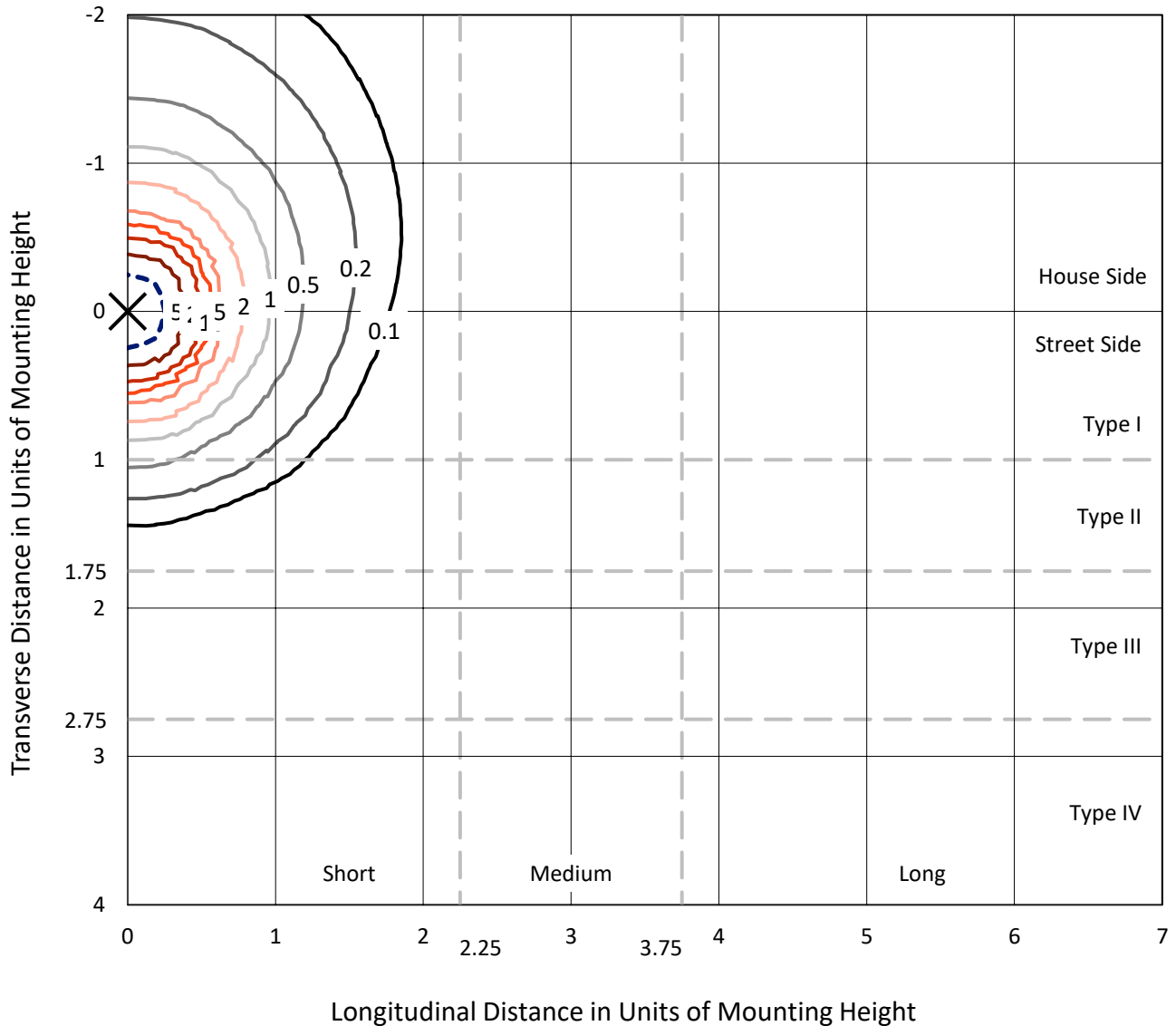
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

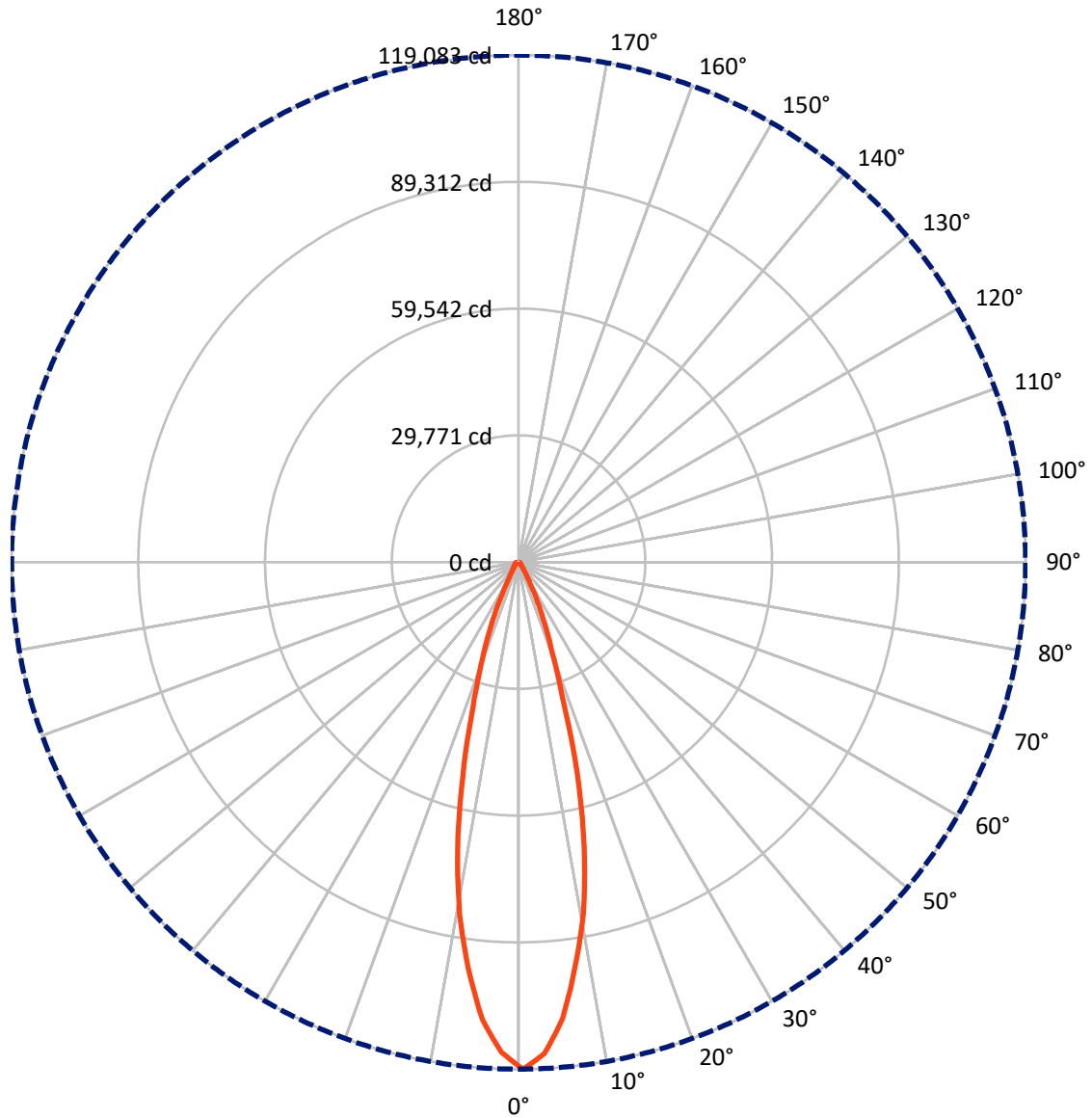
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 297.7 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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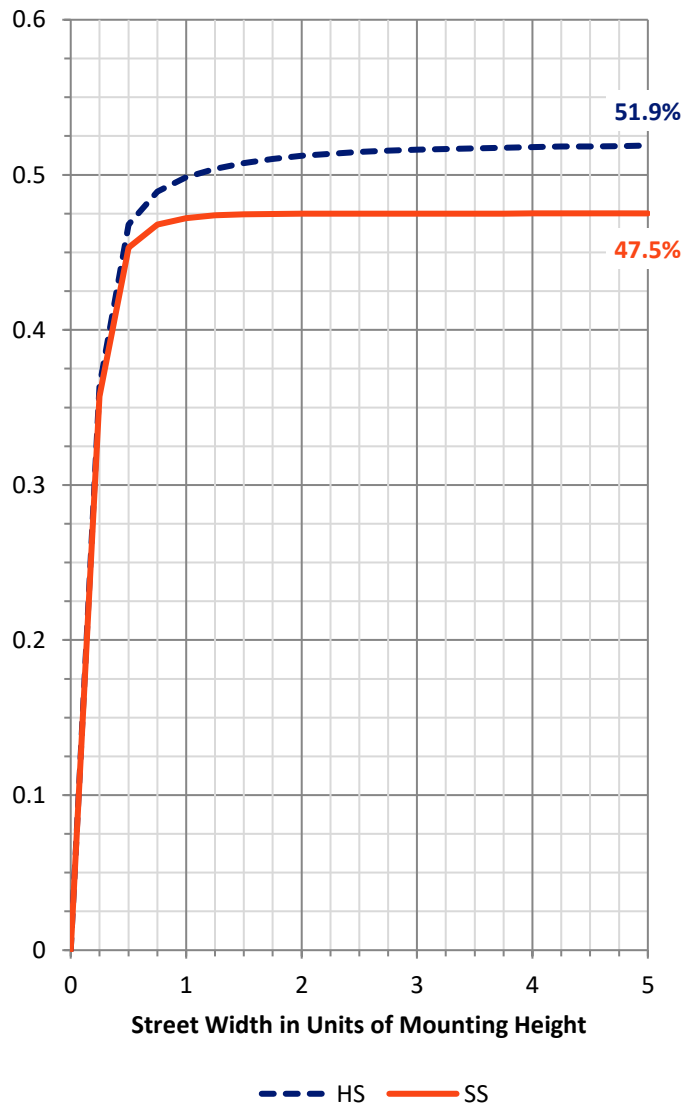
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17819.6	0.0	17819.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15976.6	0.0	15976.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	33796.2	0.0	33796.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9611.1	28.4
10°-20°	14555.9	43.1
20°-30°	6142.7	18.2
30°-40°	1602.1	4.7
40°-50°	810.3	2.4
50°-60°	529.6	1.6
60°-70°	317.3	0.9
70°-80°	166.9	0.5
80°-90°	60.3	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°	33796.2	100.0
0°-180°	33796.2	100.0



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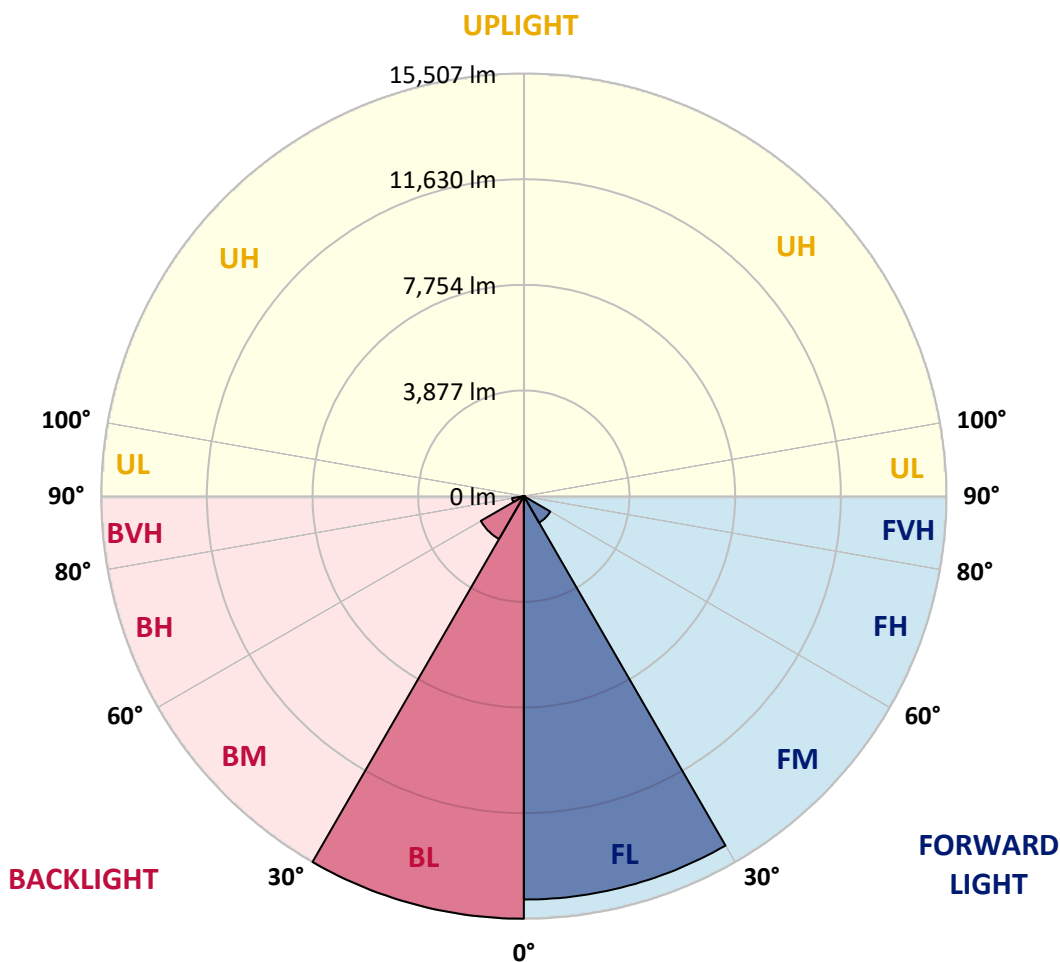
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14802.5	43.8			
FM (30°-60°)	1121.0	3.3			
FH (60°-80°)	45.7	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15507.1	45.9	B5		
BM (30°-60°)	1821.0	5.4	B2/2500		
BH (60°-80°)	438.6	1.3	B1/500		G0/660
BVH (80°-90°)	53.0	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°	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1
2.5°	115614.1	115678.6	115439.5	115955.7	115553.4	116631.3	116096.1	116931.1	116650.2	117117.1
5°	107719.8	107613.5	107545.2	108346.0	108114.5	109272.1	108532.0	108289.1	109040.6	108903.9
7.5°	95798.6	96079.4	95920.0	96128.8	96246.4	97567.2	97984.7	97658.3	97669.7	97859.4
10°	83577.5	83163.8	82575.5	82966.5	83793.9	84370.8	84139.2	84617.4	84511.2	84962.8
12.5°	68540.3	68866.7	68536.5	68187.4	69633.4	69474.0	69876.3	70138.2	69481.6	70942.8
15°	51628.2	51799.0	52201.3	52174.8	53286.8	53510.7	53457.6	53734.6	53222.3	53465.2
17.5°	33167.6	33744.5	34826.2	36655.5	38712.6	38951.7	38891.0	38663.3	38416.6	38143.3
20°	22278.7	22218.0	22608.9	23144.1	27402.5	28529.7	28495.5	27782.0	26749.7	26552.3
22.5°	15606.5	15720.4	15667.2	16198.6	17079.1	20187.5	19804.2	19079.3	18741.5	18521.3
25°	10266.4	10224.7	10490.4	10649.8	11405.0	11784.6	13128.1	12858.7	12338.7	12395.6
27.5°	6258.5	6311.7	6410.4	6547.0	7082.1	6960.7	7727.3	7829.8	7662.8	7484.4
30°	3840.9	3878.9	3958.6	4057.2	4243.2	4110.4	4322.9	4691.1	4630.3	4505.1
32.5°	2607.4	2611.2	2668.1	2706.1	2683.3	2558.1	2626.4	2975.6	2983.1	2971.8
35°	1874.9	1874.9	1928.0	1958.4	1893.9	1791.4	1802.8	2019.1	2114.0	2133.0
37.5°	1294.2	1298.0	1389.1	1480.2	1408.1	1381.5	1336.0	1480.2	1632.0	1654.8
40°	983.0	979.2	1024.7	1093.1	1100.7	1051.3	1066.5	1157.6	1313.2	1332.2
42.5°	797.0	800.8	823.6	816.0	819.8	884.3	907.1	948.8	1093.1	1127.2
45°	671.8	675.6	687.0	649.0	633.8	732.5	762.9	785.6	907.1	948.8
47.5°	554.1	561.7	573.1	531.3	523.8	588.3	641.4	664.2	770.5	816.0
50°	398.5	406.1	447.9	425.1	447.9	463.0	535.1	569.3	641.4	702.1
52.5°	288.4	296.0	307.4	311.2	368.1	375.7	428.9	482.0	516.2	584.5
55°	227.7	235.3	227.7	220.1	269.5	311.2	330.2	387.1	413.7	493.4
57.5°	129.0	136.6	148.0	170.8	178.4	239.1	258.1	307.4	330.2	406.1
60°	22.8	26.6	41.7	102.5	125.2	151.8	193.6	235.3	265.7	318.8
62.5°	3.8	3.8	7.6	22.8	72.1	106.3	140.4	167.0	193.6	242.9
65°	0.0	0.0	3.8	7.6	19.0	60.7	75.9	98.7	132.8	174.6
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	34.2	60.7	75.9	117.7
70°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	26.6	45.5	72.1
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	22.8	45.5
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	19.0	19.0
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	15.2	15.2
80°	0.0	0.0	7.6	11.4	19.0	26.6	34.2	26.6	15.2	7.6
82.5°	0.0	0.0	7.6	15.2	19.0	30.4	41.7	34.2	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	41.7	30.4	15.2	3.8
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	22.8	19.0	7.6	3.8
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°
119083.1	0°	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1	119083.1
116232.8	2.5°	116900.7	117508.0	117633.2	117466.2	117709.2	117272.7	116938.7	116073.4	115553.4
108862.2	5°	109564.3	109473.2	110107.1	110315.8	110289.2	109955.2	109488.4	108964.7	108456.1
97491.3	7.5°	98098.6	98216.2	98793.1	99161.3	98975.3	98557.8	98235.2	97840.5	97498.9
85126.0	10°	85904.1	85095.7	85813.0	85813.0	86310.2	85129.8	85239.9	84245.5	84291.0
70916.2	12.5°	71159.1	71451.4	71569.0	71906.8	71326.1	70699.9	69933.2	69781.4	69307.0
53002.1	15°	53765.0	54600.0	53882.7	55108.6	54516.5	53863.7	53746.0	52569.5	52941.4
38443.2	17.5°	38253.4	39175.7	39464.1	40166.2	39627.3	39240.2	38750.6	38393.8	38367.2
26912.9	20°	27125.4	28051.5	28264.0	29106.6	29045.9	28924.4	28510.7	28059.1	27569.5
18320.2	22.5°	18597.2	19352.5	20058.5	21193.3	21174.3	20817.5	20775.8	20138.2	20149.5
12376.7	25°	12505.7	13056.0	13223.0	14384.4	14513.4	14475.5	14259.2	13667.1	13891.0
7560.3	27.5°	7567.9	8049.9	8615.5	9025.4	9412.5	9351.8	9135.4	8805.2	8661.0
4543.0	30°	4664.5	4880.8	5089.6	5583.0	5814.5	5935.9	5833.5	5526.0	5548.8
2990.7	32.5°	3055.3	3237.4	3389.3	3700.5	3821.9	4045.8	4004.1	3939.6	3863.7
2152.0	35°	2227.9	2360.7	2463.2	2607.4	2763.0	2952.8	2983.1	2956.6	2926.2
1662.4	37.5°	1700.3	1837.0	1954.6	2015.3	2136.8	2284.8	2368.3	2364.5	2341.7
1354.9	40°	1381.5	1484.0	1590.3	1670.0	1753.5	1863.5	1966.0	1977.4	1977.4
1138.6	42.5°	1153.8	1241.1	1347.4	1430.8	1491.6	1594.0	1700.3	1707.9	1700.3
964.0	45°	986.8	1062.7	1165.2	1263.9	1313.2	1389.1	1491.6	1514.3	1499.2
827.4	47.5°	857.8	926.1	1013.4	1119.6	1172.8	1241.1	1336.0	1362.5	1358.7
713.5	50°	736.3	816.0	903.3	990.6	1058.9	1123.4	1214.5	1244.9	1233.5
607.3	52.5°	649.0	721.1	797.0	891.9	971.6	1028.5	1100.7	1153.8	1138.6
512.4	55°	542.7	630.0	709.7	789.4	888.1	948.8	1017.2	1081.7	1066.5
432.7	57.5°	470.6	542.7	633.8	705.9	804.6	876.7	945.0	1013.4	1009.6
353.0	60°	394.7	470.6	557.9	633.8	724.9	804.6	872.9	948.8	956.4
265.7	62.5°	311.2	402.3	478.2	565.5	656.6	743.9	804.6	880.5	891.9
201.2	65°	235.3	330.2	413.7	497.2	588.3	683.2	736.3	800.8	812.2
148.0	67.5°	174.6	254.3	353.0	428.9	523.8	614.8	664.2	717.3	736.3
91.1	70°	132.8	193.6	296.0	368.1	466.8	538.9	592.1	637.6	652.8
60.7	72.5°	83.5	151.8	239.1	315.0	402.3	466.8	504.8	531.3	554.1
34.2	75°	56.9	117.7	193.6	269.5	334.0	383.3	417.5	440.3	459.2
15.2	77.5°	34.2	91.1	159.4	223.9	265.7	303.6	337.8	353.0	364.4
11.4	80°	19.0	68.3	132.8	182.2	208.7	235.3	261.9	280.9	288.4
7.6	82.5°	11.4	53.1	106.3	140.4	151.8	178.4	204.9	216.3	216.3
3.8	85°	7.6	38.0	72.1	102.5	110.1	129.0	136.6	144.2	151.8
3.8	87.5°	7.6	22.8	45.5	56.9	60.7	68.3	72.1	79.7	87.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
119083.1
115170.1
107886.8
96341.3
83847.0
68874.3
52569.5
37661.3
27356.9
19929.4
13538.0
8535.8
5450.1
3837.1
2914.8
2330.3
1954.6
1692.7
1499.2
1351.1
1225.9
1134.8
1074.1
1013.4
960.2
899.5
823.6
743.9
660.4
550.3
455.4
360.6
280.9
212.5
148.0
83.5
0.0

(END OF REPORT)