

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: P476971

Luminaire Tested: **IFLD-M-SA4E-735-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476971
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

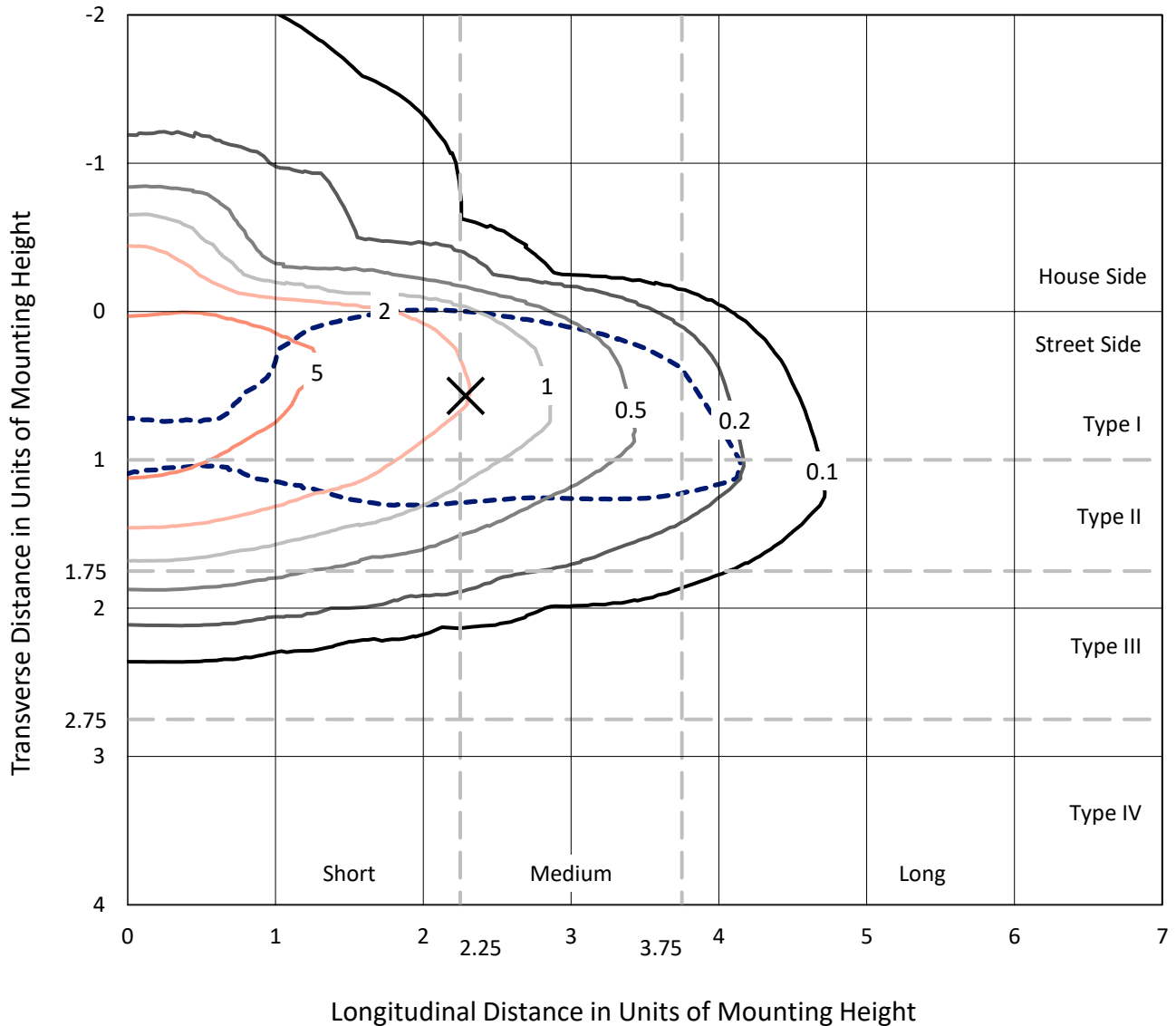
Lumens per Lamp: N/A
Luminaire Lumens: 35909.3 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

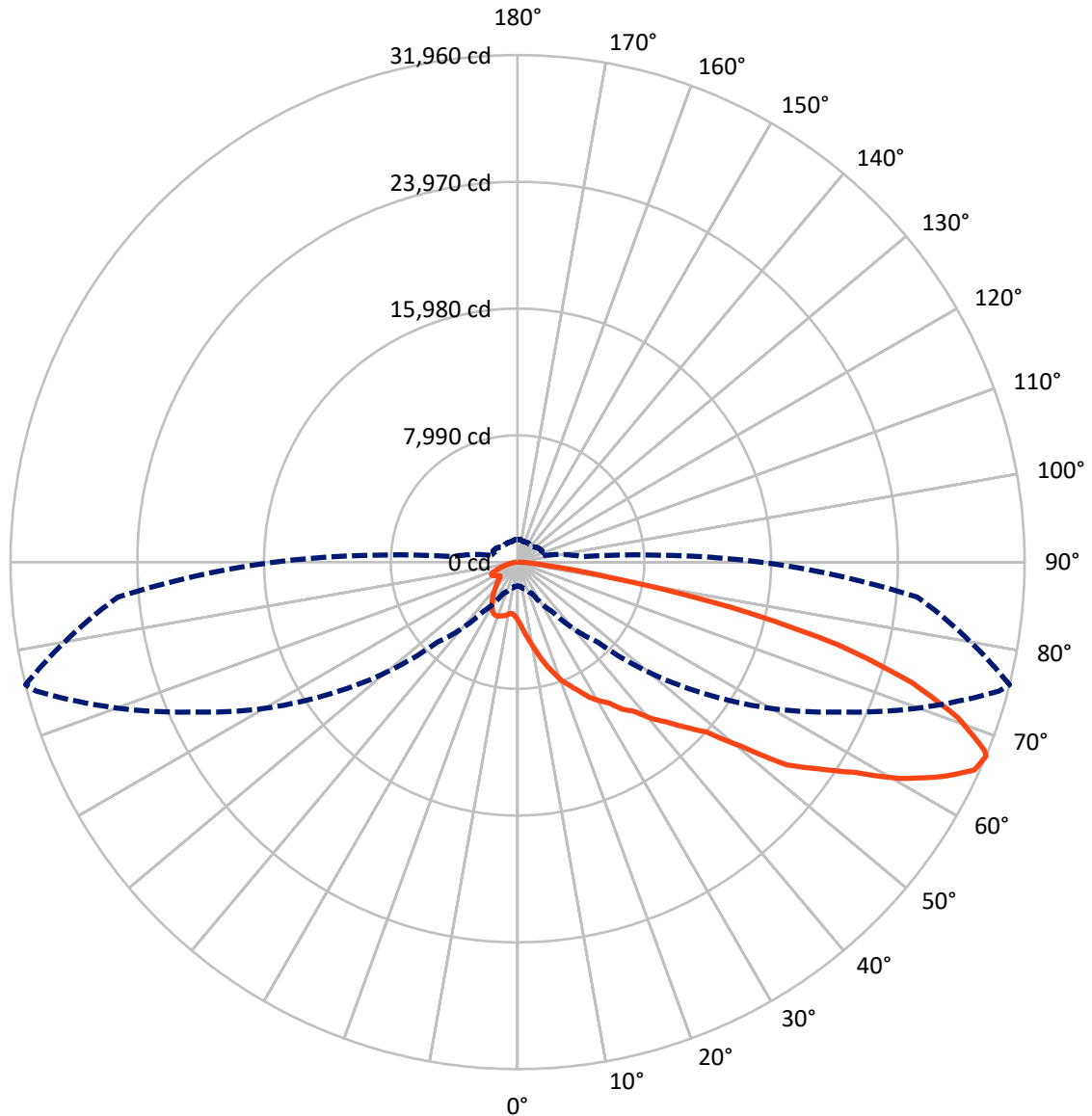
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5108.5	0.0	5108.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30800.7	0.0	30800.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	35909.3	0.0	35909.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	1.2
10°-20°	1596.5	4.4
20°-30°	2968.1	8.3
30°-40°	4705.1	13.1
40°-50°	6507.5	18.1
50°-60°	8004.7	22.3
60°-70°	7448.7	20.7
70°-80°	3737.7	10.4
80°-90°	515.4	1.4
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°	35909.3	100.0
0°-180°	35909.3	100.0

Coefficient of Utilization



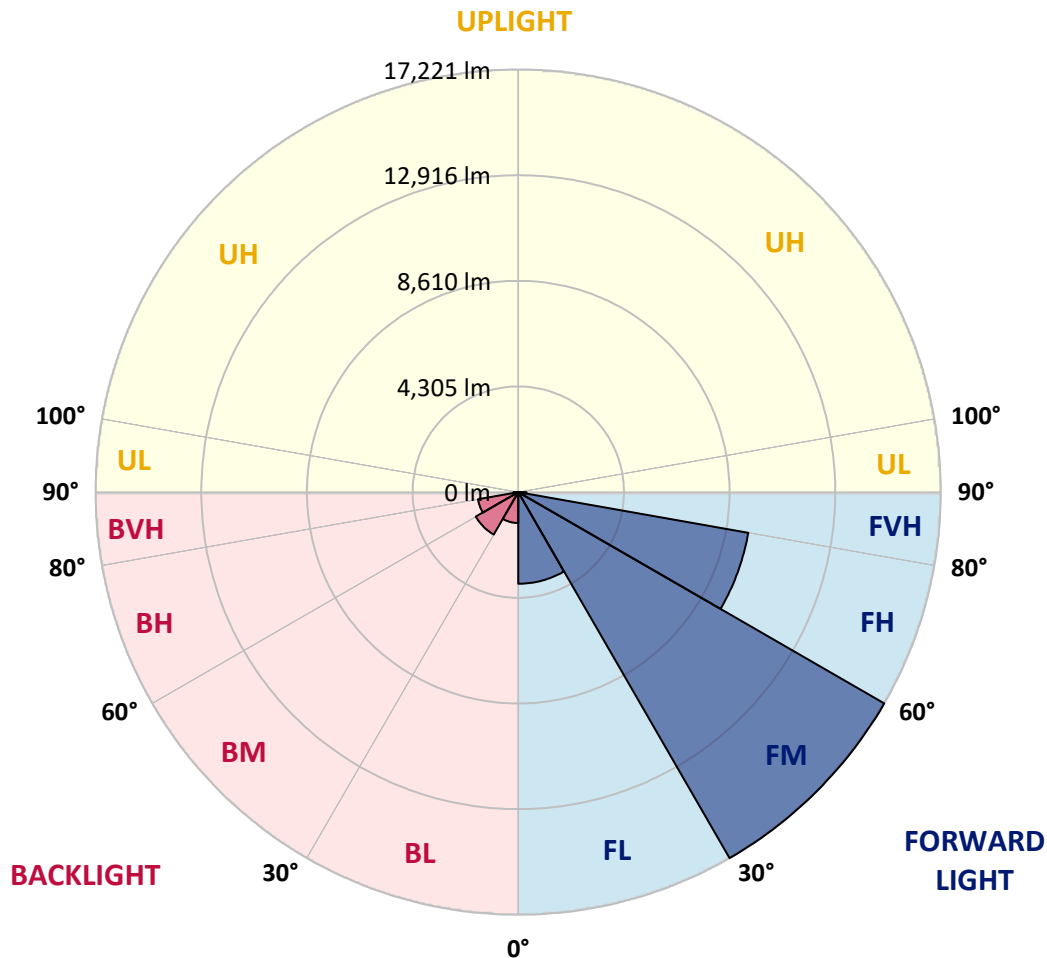
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.2	10.4			
FM (30°-60°)	17220.9	48.0			
FH (60°-80°)	9519.3	26.5			G4/12000
FVH (80°-90°)	328.4	0.9			G3/500
BL (0°-30°)	1258.0	3.5	B3/2500		
BM (30°-60°)	1996.3	5.6	B2/2500		
BH (60°-80°)	1667.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	187.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8
2.5°	5098.8	5037.5	4976.1	4845.1	4800.1	4677.3	4452.3	4202.7	3998.0	3969.4	3826.2
5°	6326.5	6236.5	6216.0	6142.3	5909.1	5671.7	5303.4	4902.4	4403.2	4440.0	3948.9
7.5°	7247.2	7194.0	7083.5	7014.0	6874.8	6559.7	6179.2	5647.2	5012.9	4890.1	4223.1
10°	7942.9	7869.2	7865.1	7803.8	7730.1	7406.8	7116.3	6400.1	5585.8	5418.0	4558.7
12.5°	8294.8	8282.5	8499.4	8499.4	8470.8	8335.7	7836.5	7181.8	6130.1	6072.8	4947.4
15°	8675.4	8573.1	8761.3	8904.6	8978.2	9047.8	8634.5	7942.9	6825.7	6715.2	5364.8
17.5°	8675.4	8667.2	8855.4	9092.8	9477.5	9567.5	9342.4	8642.7	7402.7	7320.9	5823.2
20°	8528.1	8646.7	8777.7	9096.9	9514.3	9878.5	9944.0	9358.8	8041.1	7975.6	6342.9
22.5°	9215.6	9101.0	9236.0	9358.8	9682.1	10234.5	10414.6	9989.0	8712.2	8462.6	6813.5
25°	10369.5	10291.8	10193.6	10013.5	10148.6	10390.0	10664.2	10455.5	9285.1	9006.9	7267.7
27.5°	11494.9	11499.0	11286.2	10893.3	10602.8	10651.9	10975.2	10864.7	9768.0	9645.2	7578.7
30°	13094.9	12996.7	12759.4	12227.4	11658.6	11192.1	11138.9	11245.3	10381.8	10144.5	8024.7
32.5°	14293.9	14314.4	13978.8	13213.6	12436.1	12055.5	11589.0	11634.0	10770.6	10594.6	8380.8
35°	15263.8	15239.2	15001.9	14367.6	13446.9	12988.5	12358.3	12100.5	11675.0	11396.7	8925.0
37.5°	16311.4	16110.9	15726.2	15010.1	14420.8	13786.5	13172.7	12591.6	12276.5	11940.9	9391.5
40°	16732.9	16732.9	16217.3	15889.9	15190.1	14711.3	14314.4	13238.2	13009.0	12943.5	9989.0
42.5°	16434.1	16618.3	16405.5	16033.1	15746.7	15141.0	15034.6	13909.3	13913.4	13782.4	10705.1
45°	16405.5	16151.8	15975.8	16069.9	15934.9	15902.2	16172.2	14838.2	14862.7	14846.4	11666.8
47.5°	15583.0	15468.4	15730.3	15885.8	15996.3	16503.7	17281.2	15947.2	16123.1	16000.4	12775.7
50°	14764.5	14744.1	14907.8	15472.5	15951.3	16786.1	18337.0	17657.7	18234.7	18226.5	14785.0
52.5°	12522.0	12738.9	13381.4	14576.3	15758.9	17170.7	19135.0	19842.9	20943.7	21242.4	16450.5
55°	10377.7	10263.2	11212.5	12947.6	14920.0	17322.1	20027.1	21156.5	22777.0	22993.9	18161.0
57.5°	8073.8	8286.6	9035.5	10701.0	13185.0	16573.3	20681.8	22453.7	24847.6	25015.4	20145.7
60°	6023.7	6052.3	6874.8	8217.1	10877.0	14883.2	20894.6	23783.7	27221.1	27699.9	22224.6
62.5°	3789.3	3961.2	4587.3	5909.1	8188.4	12517.9	19941.1	24589.8	29709.1	29836.0	24319.7
65°	2042.0	2152.5	2623.1	3453.8	5720.8	9469.3	17412.2	24107.0	30879.5	31632.4	25252.8
67°	1510.0	1530.5	1747.4	2205.7	3826.2	7128.6	14519.0	22359.6	31411.5	31959.8	25289.6
67.5°	1415.9	1444.5	1616.4	1980.6	3392.4	6563.8	13762.0	21737.6	31174.1	31763.4	25003.1
70°	1211.3	1219.5	1260.4	1362.7	1902.9	3948.9	9371.1	17813.2	28894.8	29459.5	22993.9
72.5°	1076.2	1084.4	1100.8	1121.3	1289.0	2283.4	5700.4	13708.8	25113.6	26013.9	19838.8
75°	945.3	973.9	982.1	965.8	1096.7	1485.5	3032.3	10074.9	20485.4	20923.2	15427.5
77.5°	802.1	814.3	830.7	847.1	978.0	1109.0	1456.8	6801.2	14060.7	13794.7	8343.9
80°	675.2	679.3	691.6	703.9	847.1	847.1	826.6	3674.8	6142.3	5872.3	2819.5
82.5°	482.9	511.5	540.2	572.9	703.9	568.8	540.2	1636.9	1943.8	1849.7	953.5
85°	188.2	229.2	356.0	392.8	446.0	306.9	360.1	707.9	810.2	802.1	356.0
87.5°	32.7	36.8	98.2	151.4	163.7	106.4	171.9	253.7	302.8	327.4	130.9
90°	0.0	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°	180°
0°	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8	3674.8
2.5°	3707.5	3580.6	3429.2	3277.8	3179.6	3024.1	3011.8	2917.7	2905.4	2872.7	2889.1
5°	3736.1	3584.7	3277.8	3036.4	2925.9	2835.9	2856.3	2815.4	2803.1	2782.7	2749.9
7.5°	3961.2	3662.5	3204.2	2995.5	2913.6	2872.7	2872.7	2823.6	2786.8	2811.3	2835.9
10°	4108.5	3699.3	3261.5	3052.8	2987.3	2897.3	2930.0	2868.6	2889.1	2840.0	2840.0
12.5°	4345.9	3908.0	3380.1	3138.7	3032.3	2950.5	2983.2	2913.6	2897.3	2901.3	2889.1
15°	4665.1	4047.2	3433.3	3187.8	3114.1	3011.8	2987.3	2925.9	2864.5	2844.1	2868.6
17.5°	4963.8	4219.0	3470.2	3216.4	3097.8	2983.2	2954.5	2876.8	2856.3	2794.9	2745.8
20°	5319.8	4423.6	3519.3	3241.0	3036.4	2921.8	2848.1	2770.4	2700.8	2664.0	2680.4
22.5°	5557.2	4530.0	3543.8	3191.9	2946.4	2840.0	2684.5	2631.3	2533.1	2492.1	2459.4
25°	5945.9	4661.0	3482.4	3056.8	2786.8	2614.9	2475.8	2402.1	2332.5	2279.3	2263.0
27.5°	6044.1	4759.2	3339.2	2827.7	2533.1	2353.0	2234.3	2144.3	2099.3	2017.4	2001.1
30°	6330.6	4661.0	3126.4	2549.4	2291.6	2107.5	1988.8	1923.3	1816.9	1796.5	1751.4
32.5°	6514.7	4689.6	2856.3	2279.3	2013.3	1849.7	1771.9	1706.4	1677.8	1579.6	1555.0
35°	6821.6	4591.4	2582.2	2029.7	1784.2	1657.3	1591.9	1571.4	1477.3	1432.3	1391.3
37.5°	7018.1	4534.1	2308.0	1747.4	1534.6	1481.4	1501.8	1415.9	1301.3	1215.4	1186.7
40°	7361.8	4513.7	1997.0	1514.1	1362.7	1350.4	1415.9	1252.2	1043.5	969.8	928.9
42.5°	7857.0	4374.5	1755.5	1305.4	1227.6	1280.8	1293.1	1043.5	924.8	863.4	834.8
45°	8331.7	4403.2	1518.2	1080.3	1068.1	1145.8	1117.2	883.9	814.3	769.3	793.9
47.5°	9244.2	4546.4	1284.9	900.3	961.7	1035.3	867.5	789.8	724.3	691.6	695.7
50°	10656.0	4685.5	1080.3	822.5	908.5	937.1	744.8	716.1	712.0	646.6	642.5
52.5°	11503.1	4632.3	1043.5	920.7	973.9	937.1	810.2	789.8	757.1	728.4	695.7
55°	12849.4	4787.8	1121.3	1076.2	1104.9	900.3	908.5	900.3	875.7	802.1	822.5
57.5°	13921.6	4890.1	1223.6	1203.1	1186.7	937.1	949.4	953.5	937.1	904.4	933.0
60°	15394.7	5094.7	1330.0	1334.0	1338.1	1018.9	1039.4	1064.0	1059.9	1047.6	1055.8
62.5°	16299.1	5000.6	1448.6	1514.1	1493.6	1186.7	1182.6	1199.0	1199.0	1219.5	1231.7
65°	16164.1	4652.8	1510.0	1673.7	1567.3	1309.5	1309.5	1317.7	1321.8	1362.7	1366.8
67°	15353.8	4030.8	1477.3	1698.2	1567.3	1358.6	1358.6	1366.8	1338.1	1444.5	1411.8
67.5°	14977.3	3846.6	1448.6	1677.8	1555.0	1354.5	1354.5	1358.6	1334.0	1436.4	1403.6
70°	13025.4	2856.3	1248.1	1485.5	1440.4	1317.7	1317.7	1293.1	1272.7	1407.7	1379.1
72.5°	11118.4	2074.7	1002.6	1264.5	1301.3	1268.6	1276.8	1215.4	1158.1	1252.2	1227.6
75°	8515.8	1526.4	781.6	973.9	1100.8	1186.7	1239.9	1084.4	1010.8	1035.3	990.3
77.5°	4751.0	994.4	617.9	720.2	838.9	1104.9	1190.8	978.0	826.6	798.0	798.0
80°	1612.3	581.1	454.2	536.1	577.0	978.0	1113.1	793.9	650.7	622.0	601.5
82.5°	609.7	356.0	311.0	368.3	368.3	773.4	908.5	609.7	491.1	634.3	646.6
85°	278.3	212.8	204.6	212.8	212.8	474.7	642.5	396.9	442.0	380.6	335.6
87.5°	110.5	102.3	94.1	90.0	73.7	81.8	221.0	106.4	200.5	53.2	49.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)