

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: P478331

Luminaire Tested: **IFLD-S-SA6E-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478331
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

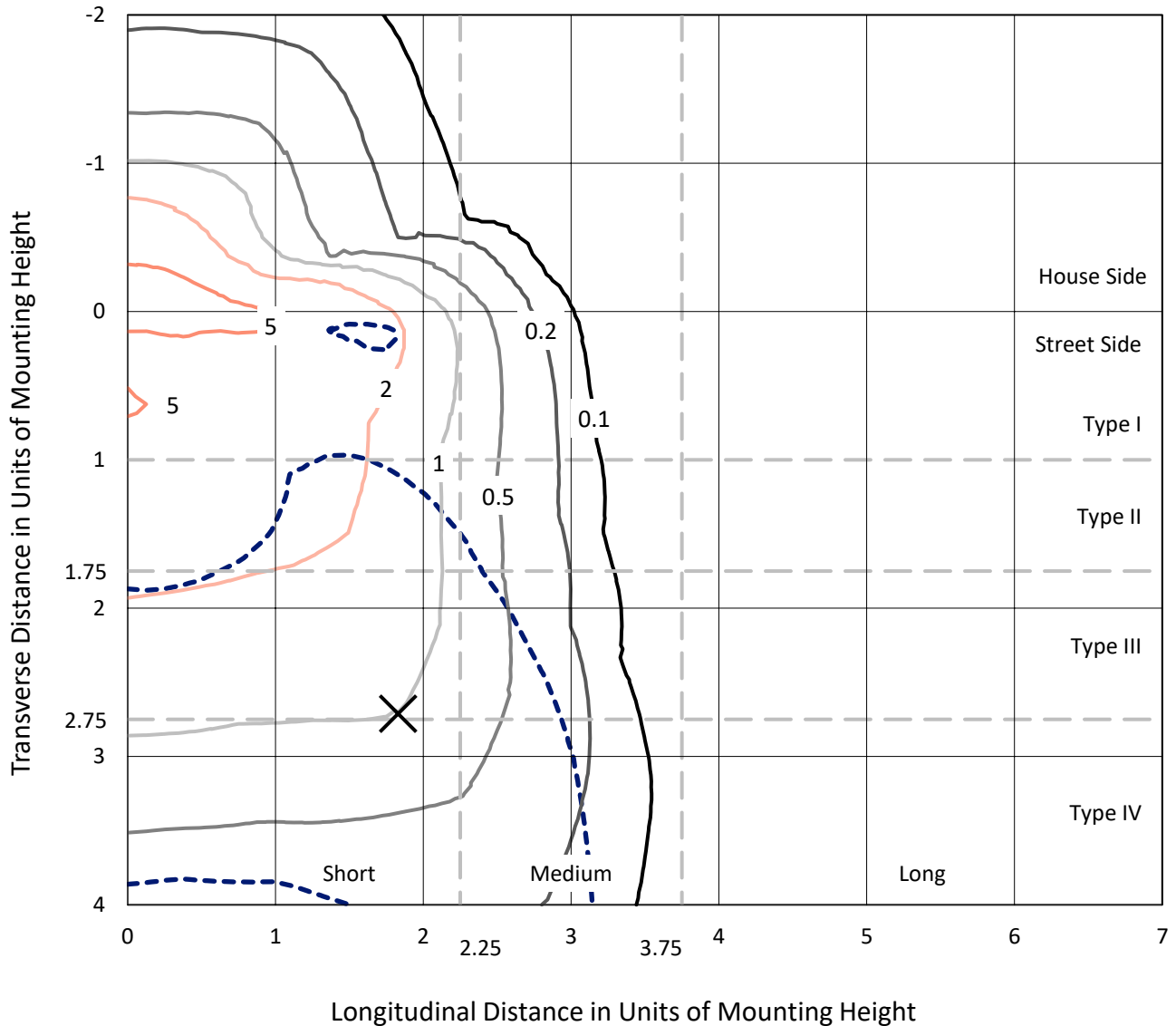
Lumens per Lamp: N/A
Luminaire Lumens: 43074.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

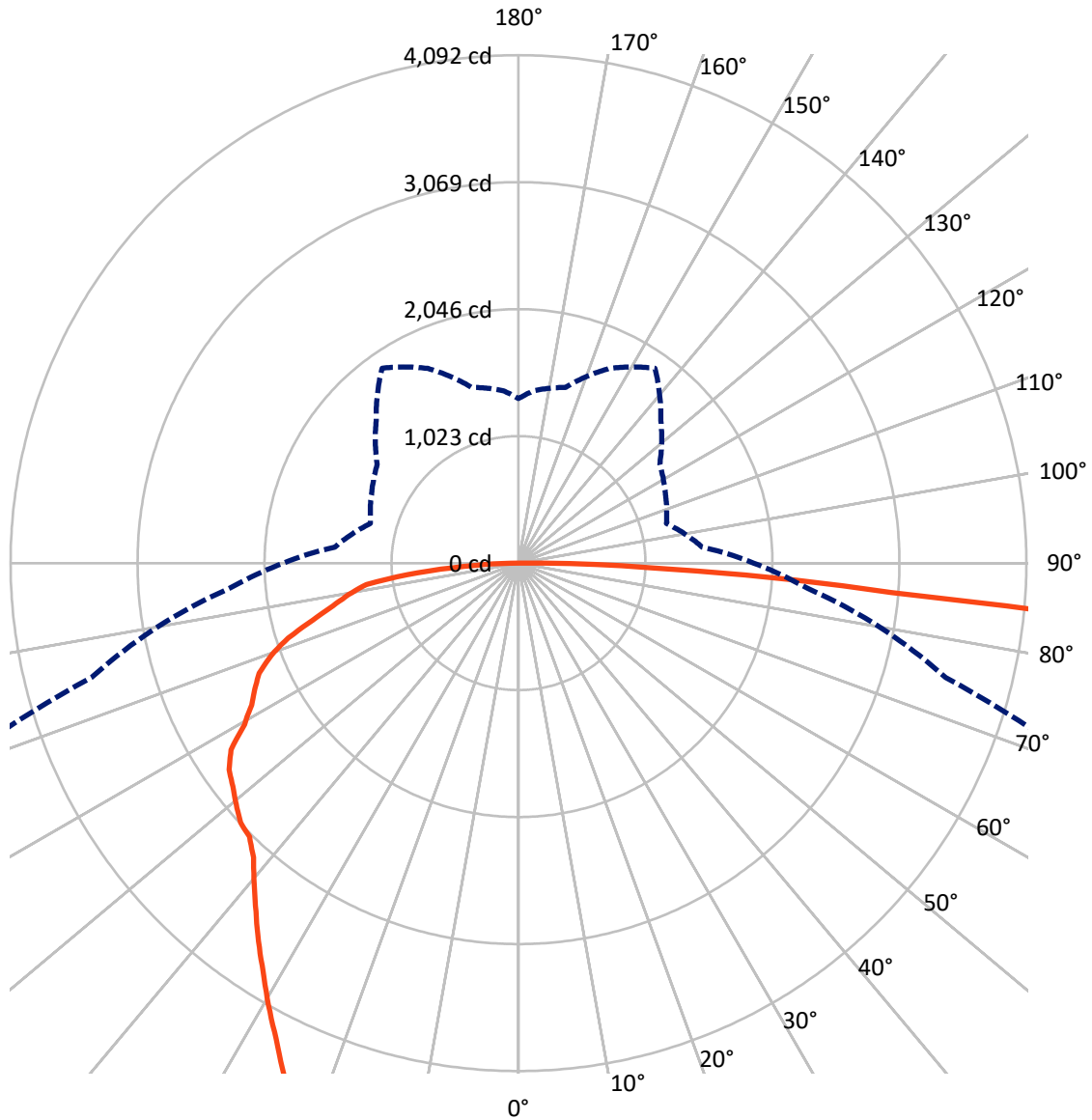
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9304.6	0.0	9304.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33769.8	0.0	33769.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	43074.4	0.0	43074.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	1.3
10°-20°	1595.1	3.7
20°-30°	2625.3	6.1
30°-40°	3926.1	9.1
40°-50°	5820.2	13.5
50°-60°	8387.5	19.5
60°-70°	10703.6	24.8
70°-80°	8329.2	19.3
80°-90°	1117.4	2.6
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°	43074.4	100.0
0°-180°	43074.4	100.0

Coefficient of Utilization



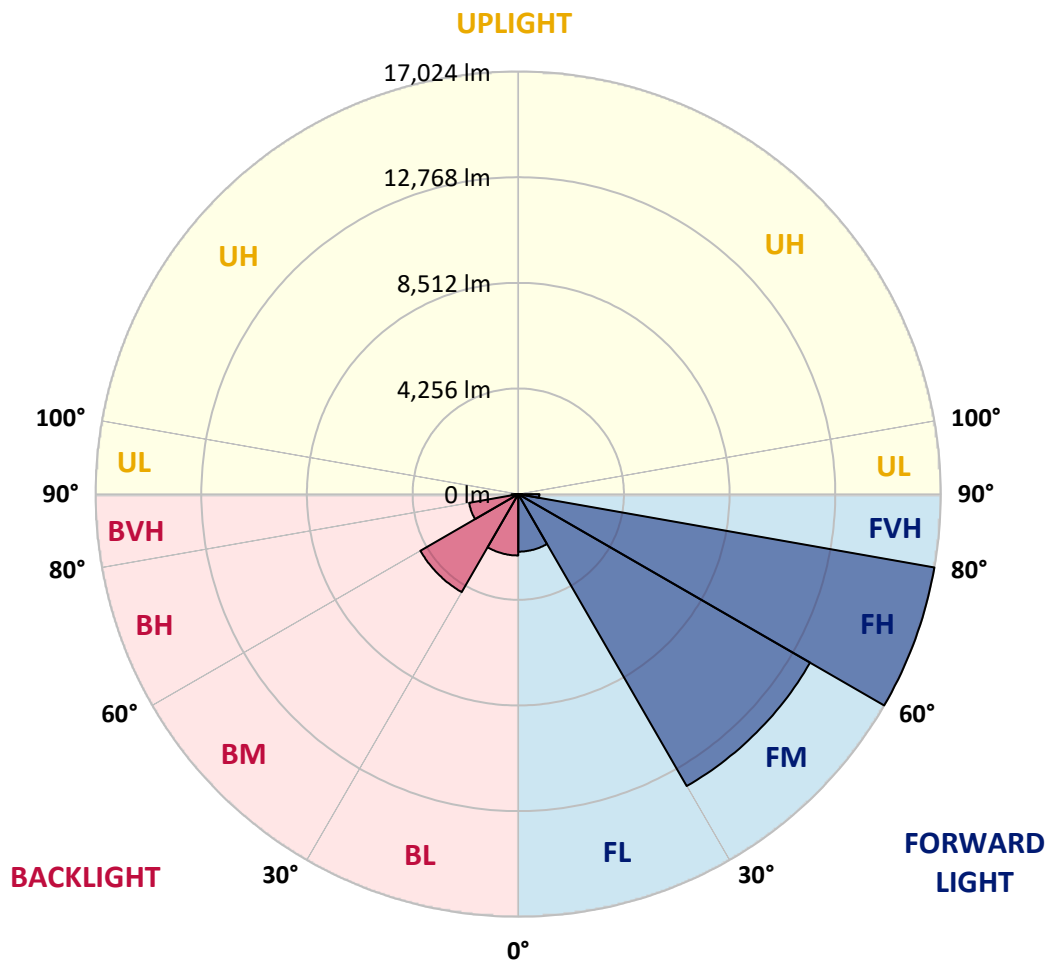
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.1	5.4			
FM (30°-60°)	13577.3	31.5			
FH (60°-80°)	17023.8	39.5			G5
FVH (80°-90°)	850.5	2.0			G5
BL (0°-30°)	2472.2	5.7	B3/2500		
BM (30°-60°)	4556.5	10.6	B3/5000		
BH (60°-80°)	2009.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	266.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4
2.5°	5533.3	5551.5	5610.7	5624.3	5688.1	5651.7	5729.1	5865.7	5943.1	6057.0	6193.6
5°	5096.1	5018.6	5055.1	5196.3	5269.1	5287.3	5369.3	5601.6	5747.3	5915.8	6170.8
7.5°	4581.4	4567.8	4640.6	4731.7	4877.5	4891.1	5073.3	5278.2	5578.8	5952.2	6252.8
10°	4230.8	4290.0	4331.0	4426.6	4526.8	4526.8	4759.1	5114.3	5455.8	5815.6	6271.0
12.5°	4212.6	4176.1	4185.2	4235.3	4308.2	4399.3	4617.9	4936.7	5369.3	5788.3	6348.4
15°	4271.8	4285.4	4203.5	4267.2	4294.5	4326.4	4567.8	4927.6	5314.7	5883.9	6480.5
17.5°	4586.0	4508.6	4381.1	4321.9	4417.5	4417.5	4581.4	4863.8	5323.8	5934.0	6671.8
20°	4831.9	4831.9	4622.4	4558.7	4627.0	4613.3	4727.2	4936.7	5369.3	6034.2	6885.8
22.5°	5246.3	5305.6	4959.4	4827.4	4822.8	4859.2	4959.4	5137.0	5496.8	6175.4	7090.8
25°	5842.9	5856.6	5455.8	5319.2	5173.5	5232.7	5250.9	5428.5	5610.7	6339.3	7323.0
27.5°	6507.8	6498.7	6129.8	5788.3	5692.7	5706.3	5606.1	5724.5	5779.2	6389.4	7655.5
30°	7245.6	7163.6	6885.8	6403.1	6325.7	6239.1	6020.5	6016.0	6129.8	6671.8	8115.4
32.5°	7728.3	7623.6	7432.3	7086.2	6872.2	6881.3	6535.2	6530.6	6430.4	6981.5	8516.2
35°	8202.0	8042.6	7992.5	7637.3	7423.2	7446.0	7168.2	7131.8	6949.6	7450.5	9176.6
37.5°	8771.2	8630.1	8707.5	8438.8	8174.6	8065.3	7937.8	7892.3	7655.5	8110.9	10078.3
40°	9399.7	9354.2	9304.1	9172.0	9012.6	9021.7	8885.1	8839.6	8488.9	8907.9	10943.6
42.5°	10246.8	10073.7	9814.1	9900.7	9982.6	10069.2	10023.6	9905.2	9540.9	9718.5	11909.0
45°	11034.6	10806.9	10328.7	10356.1	10693.1	10761.4	11312.4	11298.8	10565.6	10747.7	13006.6
47.5°	11567.5	11462.7	11175.8	11143.9	11626.7	11622.1	12614.9	12614.9	11644.9	11772.4	14186.1
50°	12359.9	12086.6	11963.7	12123.1	12369.0	12537.5	13944.7	14031.2	12706.0	12842.6	15729.9
52.5°	13288.9	12947.4	12637.7	13047.6	13484.8	13594.1	15260.9	15224.4	13521.2	14085.9	17537.9
55°	14058.6	13885.5	13671.5	13908.3	14623.3	14759.9	16581.6	16244.6	14336.4	15115.1	18407.8
57.5°	14955.7	15060.5	15106.0	15046.8	15898.4	16112.5	18089.0	17123.5	15037.7	15807.4	18917.8
60°	16308.3	16372.1	16431.3	16572.4	17474.2	17774.7	19282.2	18225.6	15479.5	16208.1	18958.8
62.5°	18366.8	18120.8	18252.9	18740.2	19464.3	19805.9	21040.0	18999.8	15816.5	16449.5	17619.9
65°	20721.3	20388.8	20252.2	20880.6	22756.9	22483.7	23235.1	19578.2	15329.2	15547.8	14942.1
67.5°	23107.6	23144.0	22793.4	24054.9	26354.7	26354.7	25275.4	19856.0	14008.5	12601.3	10479.0
70°	25002.1	25116.0	25307.3	27752.8	31396.1	31947.2	27802.9	18717.4	11317.0	8388.7	5729.1
72.5°	24974.8	24633.2	25612.4	30116.4	35977.6	35517.6	28331.2	14800.9	7063.4	4107.8	2627.7
73°	24414.6	24127.7	25198.0	30093.6	36164.3	35731.6	27944.1	13644.1	6230.0	3561.3	2336.3
75°	19937.9	19418.8	21240.4	27256.4	33459.1	33791.6	23740.6	8898.8	3415.6	2195.1	1644.0
77.5°	9090.0	9317.7	11690.4	18284.8	25785.4	26177.1	15607.0	3848.2	1871.7	1539.3	1211.4
80°	2919.2	3064.9	4549.6	9090.0	16162.6	16868.5	7213.7	1748.8	1334.4	1179.5	906.3
82.5°	1115.8	1111.2	1908.2	3779.9	7660.0	8110.9	2636.8	1065.7	992.8	869.8	642.1
85°	391.7	409.9	719.6	1493.8	3014.8	3156.0	915.4	592.0	687.7	582.9	368.9
87.5°	136.6	141.2	255.0	541.9	1038.3	1097.5	255.0	236.8	341.6	337.0	186.7
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°	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4
2.5°	6239.1	6280.1	6293.8	6457.7	6457.7	6457.7	6521.5	6521.5	6503.3	6457.7	6567.0
5°	6266.5	6339.3	6480.5	6621.7	6658.1	6690.0	6776.5	6703.7	6731.0	6685.5	6726.4
7.5°	6343.9	6444.1	6708.2	6794.7	6735.5	6803.9	6712.8	6662.7	6612.6	6630.8	6567.0
10°	6476.0	6603.5	6726.4	6885.8	6772.0	6703.7	6516.9	6471.4	6312.0	6257.4	6307.5
12.5°	6639.9	6794.7	7004.2	6945.0	6726.4	6530.6	6330.2	6139.0	6043.3	5906.7	5943.1
15°	6803.9	6981.5	7013.3	6913.2	6639.9	6394.0	6029.7	5761.0	5665.3	5542.4	5606.1
17.5°	6981.5	7150.0	7095.3	6835.7	6466.9	6093.4	5679.0	5414.9	5214.5	5137.0	5137.0
20°	7245.6	7327.6	7241.1	6708.2	6257.4	5765.5	5364.8	5064.2	4863.8	4831.9	4781.8
22.5°	7450.5	7582.6	7195.5	6521.5	5952.2	5337.4	4877.5	4763.6	4704.4	4654.3	4590.6
25°	7714.7	7710.1	7113.5	6348.4	5428.5	4827.4	4549.6	4540.5	4513.1	4494.9	4581.4
27.5°	7965.2	7860.4	7017.9	5920.4	4886.6	4440.3	4290.0	4390.2	4431.2	4403.8	4440.3
30°	8361.4	8188.3	6881.3	5464.9	4408.4	4048.6	4075.9	4212.6	4280.9	4321.9	4267.2
32.5°	8780.3	8516.2	6598.9	4991.3	3984.9	3802.7	3866.4	4007.6	4089.6	4135.1	4185.2
35°	9386.0	8771.2	6312.0	4372.0	3679.7	3652.4	3688.8	3766.3	3884.7	3916.5	3930.2
37.5°	10132.9	9158.3	5924.9	3875.6	3442.9	3474.8	3511.2	3538.6	3543.1	3602.3	3579.5
40°	10879.8	9486.2	5360.2	3401.9	3197.0	3370.0	3351.8	3301.7	3260.8	3206.1	3192.4
42.5°	11535.6	9773.1	4731.7	3001.2	2978.4	3260.8	3201.5	3074.0	2978.4	2937.4	2869.1
45°	12273.4	10178.5	4098.7	2750.7	2809.9	3128.7	3110.5	2914.6	2791.7	2645.9	2627.7
47.5°	13229.7	10602.0	3493.0	2491.1	2650.5	3078.6	3087.7	2837.2	2659.6	2463.8	2436.5
50°	14454.8	11212.2	3033.0	2381.8	2554.9	3005.7	3019.4	2732.5	2500.2	2299.8	2281.6
52.5°	15629.7	11836.2	2650.5	2213.3	2491.1	2919.2	2951.1	2636.8	2368.1	2117.7	2131.3
55°	16221.8	11608.5	2322.6	2090.3	2345.4	2778.0	2896.4	2568.5	2167.8	1994.7	1990.2
57.5°	16353.9	11048.3	2063.0	1962.8	2222.4	2627.7	2805.3	2363.6	2076.7	1930.9	1912.7
60°	15921.2	10069.2	1858.1	1826.2	2067.6	2472.9	2595.8	2254.3	1985.6	1867.2	1839.9
62.5°	14855.5	9053.6	1716.9	1762.4	1935.5	2304.4	2463.8	2176.9	1899.1	1817.1	1757.9
65°	12182.3	7446.0	1603.1	1639.5	1798.9	2140.4	2381.8	2090.3	1821.6	1744.2	1739.7
67.5°	8438.8	5132.5	1512.0	1580.3	1689.6	2022.0	2299.8	1994.7	1721.5	1694.1	1657.7
70°	4321.9	2737.0	1393.6	1448.2	1571.2	1871.7	2154.1	1894.5	1616.7	1612.2	1566.6
72.5°	2190.5	1603.1	1256.9	1338.9	1425.4	1675.9	1971.9	1762.4	1484.6	1434.5	1361.7
73°	1894.5	1484.6	1234.2	1307.0	1389.0	1621.3	1917.3	1730.6	1466.4	1393.6	1325.2
75°	1379.9	1170.4	1106.7	1179.5	1243.3	1461.9	1735.1	1584.8	1348.0	1270.6	1206.8
77.5°	1033.8	901.7	919.9	1001.9	1056.6	1261.5	1543.8	1434.5	1220.5	1115.8	1088.4
80°	760.5	687.7	760.5	838.0	878.9	1111.2	1407.2	1243.3	1029.2	910.8	888.1
82.5°	541.9	501.0	587.5	637.6	655.8	919.9	1266.0	992.8	778.8	623.9	573.8
85°	309.7	305.1	396.2	391.7	405.3	537.4	833.4	660.3	501.0	382.5	373.4
87.5°	136.6	150.3	200.4	159.4	168.5	255.0	355.2	245.9	204.9	113.9	86.5
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)