

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: P476783

Luminaire Tested: **IFLD-L-SA8B-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476783  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

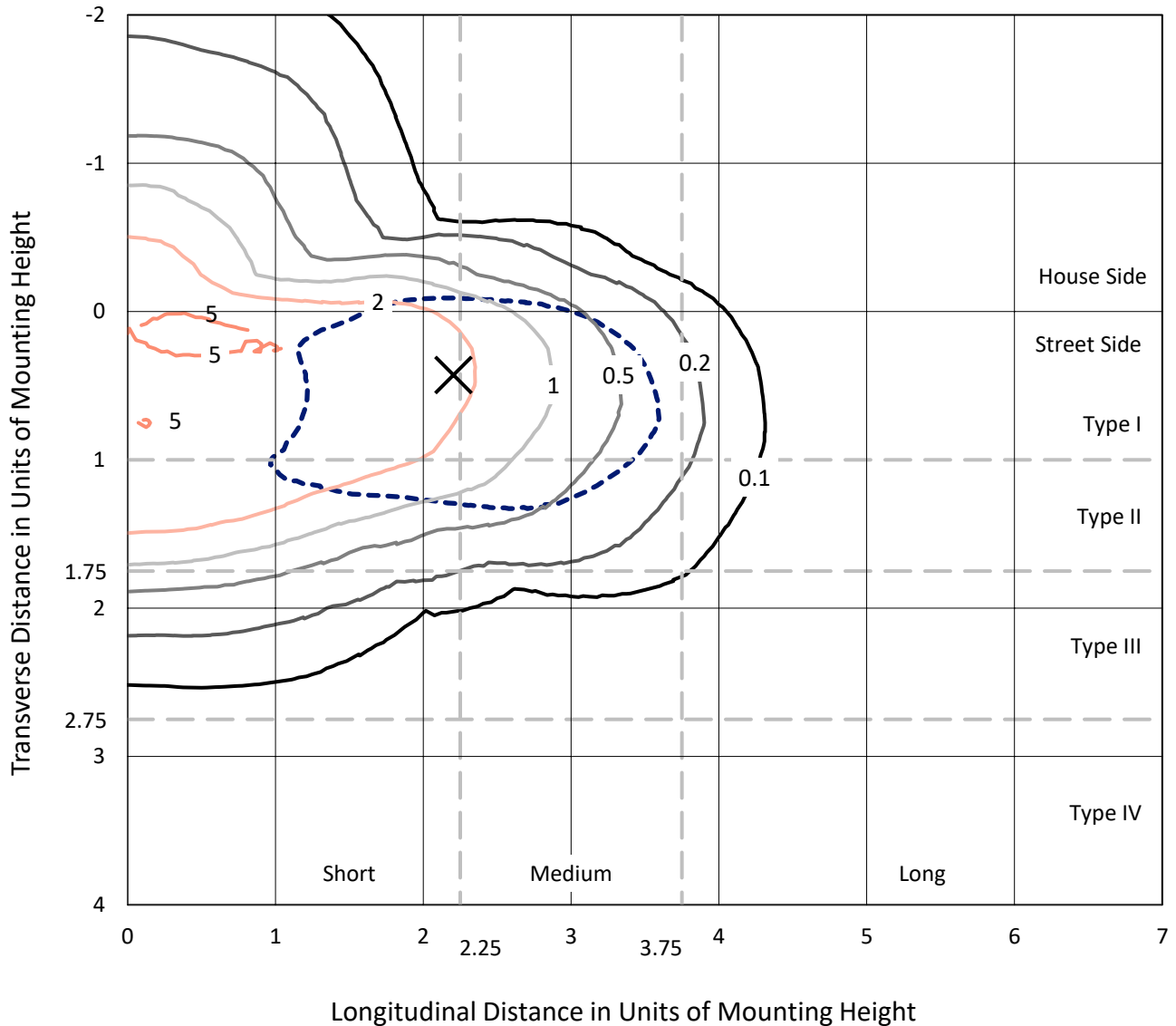
Lumens per Lamp: N/A  
Luminaire Lumens: 32300.2 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

REPORT NUMBER: P476783  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

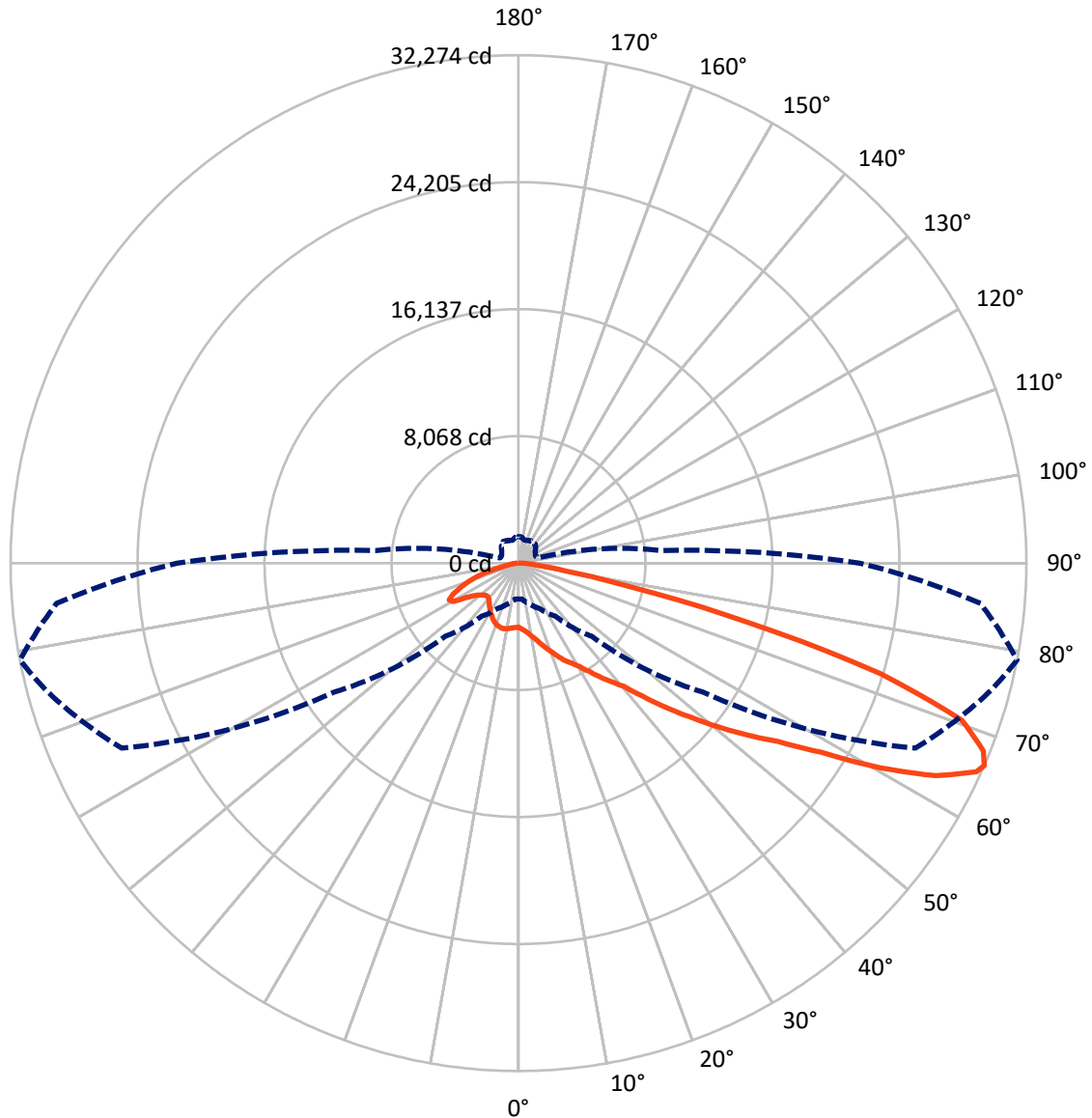
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P476783  
CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476783

CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6522.6	0.0	6522.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	25777.6	0.0	25777.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	32300.2	0.0	32300.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.0	1.2
10°-20°	1238.4	3.8
20°-30°	2125.8	6.6
30°-40°	3283.9	10.2
40°-50°	5260.0	16.3
50°-60°	7853.6	24.3
60°-70°	8069.5	25.0
70°-80°	3577.1	11.1
80°-90°	490.8	1.5
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°	32300.2	100.0
0°-180°	32300.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476783

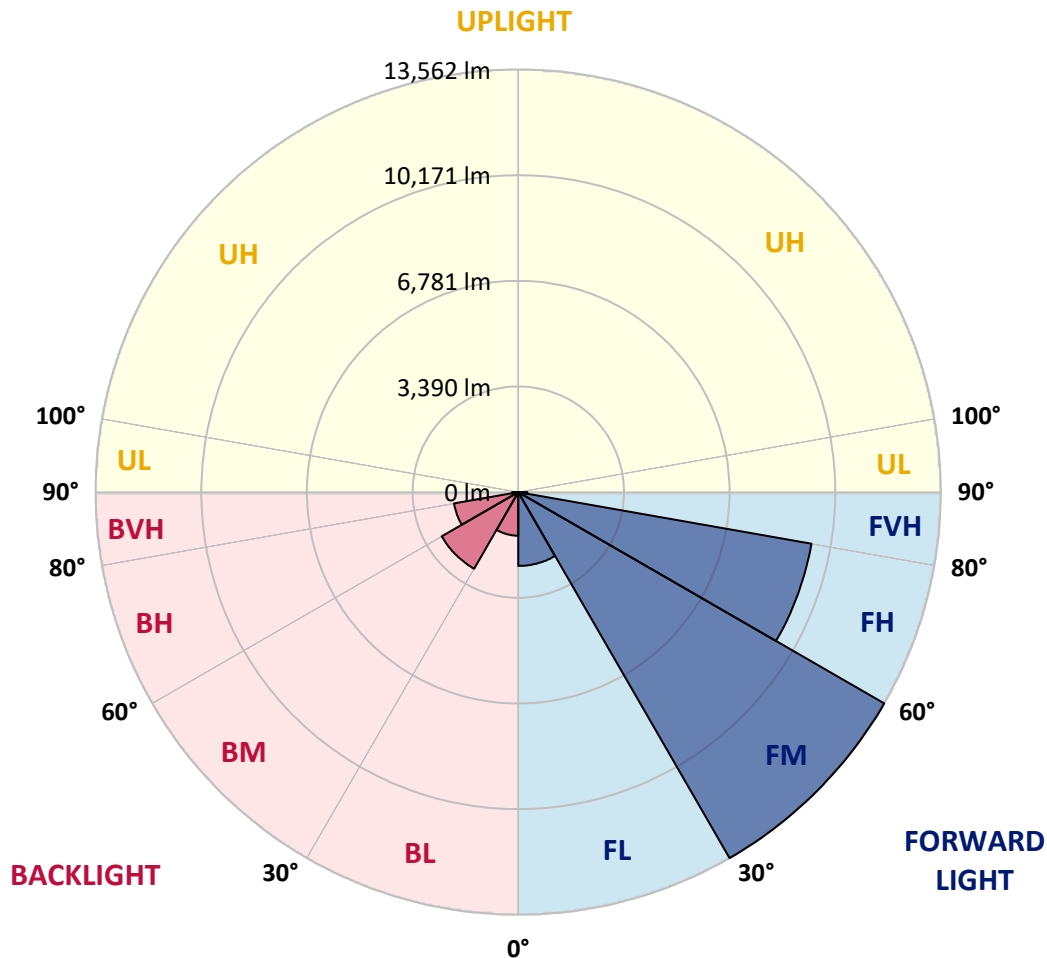
CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.8	7.3			
FM (30°-60°)	13561.7	42.0			
FH (60°-80°)	9553.7	29.6			G4/12000
FVH (80°-90°)	294.4	0.9			G3/500
BL (0°-30°)	1397.4	4.3	B3/2500		
BM (30°-60°)	2835.7	8.8	B3/5000		
BH (60°-80°)	2093.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	196.4	0.6			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 Short





REPORT NUMBER: P476783  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	4338.0	4341.5	4341.5	4327.3	4330.9	4341.5	4302.4	4217.2	4217.2	4203.0	4178.1
5°	4604.4	4586.7	4561.8	4565.3	4551.1	4551.1	4508.5	4426.8	4355.7	4327.3	4252.7
7.5°	4640.0	4657.7	4654.2	4696.8	4718.1	4718.1	4739.4	4671.9	4565.3	4497.8	4423.2
10°	4711.0	4664.8	4661.3	4760.7	4792.7	4867.3	4952.6	4917.1	4828.3	4732.3	4632.8
12.5°	4753.6	4782.1	4782.1	4831.8	4906.4	5016.6	5165.8	5233.3	5094.7	4995.2	4842.5
15°	4817.6	4778.5	4892.2	4934.8	5076.9	5155.1	5368.3	5542.4	5450.0	5329.2	5087.6
17.5°	4846.0	4821.1	4885.1	4963.3	5204.8	5322.1	5581.4	5823.0	5744.9	5666.7	5418.0
20°	4991.7	4988.1	5016.6	5080.5	5254.6	5485.5	5808.8	6142.8	6171.2	6029.1	5691.6
22.5°	5347.0	5300.8	5300.8	5275.9	5350.5	5588.6	6025.5	6487.4	6615.3	6448.3	6000.7
25°	5673.8	5737.8	5698.7	5585.0	5556.6	5680.9	6181.9	6853.3	7023.9	6867.6	6419.9
27.5°	6093.0	6114.4	6181.9	6029.1	5833.7	5872.8	6352.4	7059.4	7411.1	7201.5	6657.9
30°	6697.0	6657.9	6643.7	6473.2	6217.4	6164.1	6547.8	7361.4	7919.2	7624.3	6938.6
32.5°	7105.6	7201.5	7198.0	6963.5	6654.4	6537.1	6789.4	7645.6	8462.8	8189.2	7457.3
35°	7915.6	8015.1	7937.0	7592.3	7229.9	6995.5	7137.6	8015.1	9084.5	8871.3	7897.9
37.5°	8949.5	9184.0	9017.0	8381.1	7869.4	7613.6	7620.8	8416.6	9720.5	9546.4	8370.4
40°	9663.6	9979.8	9748.9	9152.0	8608.4	8366.8	8270.9	8892.7	10480.8	10296.0	9109.4
42.5°	10548.3	10811.2	10690.4	10100.6	9464.7	9258.6	9066.7	9688.5	11642.5	11557.3	10058.0
45°	11514.6	11639.0	11599.9	11226.8	10519.8	10448.8	10026.0	10736.6	13010.3	13045.9	11244.6
47.5°	12413.5	12481.0	12555.6	12285.6	11845.0	11905.4	11130.9	11859.2	14339.1	14573.6	12566.2
50°	12644.4	12875.3	13049.4	13230.6	13326.5	13735.1	12349.5	13237.7	15866.8	16321.6	14037.1
52.5°	12409.9	12392.2	12921.5	13490.0	14449.2	15305.5	14008.7	14950.2	17216.9	18115.7	15383.6
55°	11344.1	11308.6	12161.2	12914.4	14786.7	16179.4	16378.4	17231.1	18847.6	20016.5	17206.2
57.5°	9478.9	9258.6	10189.4	11425.8	14054.9	16275.4	18758.8	20616.9	21355.9	22688.2	19988.0
60°	6370.2	6277.8	7169.5	8644.0	11411.6	14914.6	20183.4	24855.4	24890.9	26390.2	24304.7
62.5°	3922.3	3940.1	4512.1	5617.0	7990.2	11823.7	19568.8	28241.2	28248.3	29751.1	27857.5
65°	2565.1	2575.8	3037.6	3648.7	4991.7	8018.7	16183.0	28507.7	30582.5	31978.7	29484.7
66°	2284.4	2288.0	2685.9	3183.3	4135.5	6562.0	14292.9	27814.9	31108.3	32273.6	29463.4
67.5°	1925.6	1971.8	2291.6	2675.3	3225.9	4714.6	11340.5	25811.1	30838.3	31861.5	28795.4
70°	1506.4	1531.3	1783.5	2174.3	2419.5	2728.5	6739.7	21039.7	28227.0	29886.1	26365.3
72.5°	1208.0	1229.3	1421.1	1765.7	1964.7	1797.7	3670.0	15266.4	22297.4	24066.7	20737.7
75°	1019.7	1023.2	1115.6	1389.1	1616.5	1350.1	1954.0	9798.6	14307.1	15131.4	12704.8
77.5°	824.2	838.5	902.4	1058.7	1300.3	1062.3	1165.3	5489.1	7183.8	7244.2	5872.8
80°	671.5	678.6	717.7	771.0	991.2	785.2	788.7	2678.8	3080.3	3009.2	2387.5
82.5°	529.4	536.5	582.7	572.0	728.3	561.3	490.3	1289.7	1417.6	1389.1	1097.8
85°	298.4	298.4	458.3	458.3	461.9	355.3	298.4	607.5	749.6	699.9	515.2
87.5°	95.9	99.5	138.6	145.7	230.9	159.9	145.7	227.4	355.3	312.6	184.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476783  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	4163.9	4107.0	4082.2	4000.5	3979.1	3925.8	3901.0	3869.0	3858.3	3812.2	3854.8
5°	4195.9	4178.1	4078.6	3975.6	3897.4	3861.9	3808.6	3737.5	3730.4	3666.5	3659.4
7.5°	4330.9	4270.5	4096.4	3986.2	3829.9	3741.1	3623.9	3588.3	3542.1	3520.8	3567.0
10°	4540.5	4387.7	4128.4	3851.2	3659.4	3552.8	3467.5	3442.7	3446.2	3432.0	3410.7
12.5°	4689.7	4544.0	4075.1	3737.5	3488.8	3385.8	3378.7	3403.6	3442.7	3424.9	3449.8
15°	4902.9	4629.3	4036.0	3549.2	3350.3	3321.9	3318.3	3392.9	3389.4	3389.4	3385.8
17.5°	5101.8	4714.6	3893.9	3385.8	3204.6	3225.9	3250.8	3247.3	3282.8	3297.0	3321.9
20°	5354.1	4814.0	3694.9	3222.4	3094.5	3087.4	3083.8	3087.4	3122.9	3144.2	3126.5
22.5°	5574.3	4835.4	3527.9	3066.1	2963.0	2934.6	2888.4	2934.6	2916.8	2924.0	2945.3
25°	5766.2	4838.9	3289.9	2948.8	2831.6	2767.6	2732.1	2728.5	2696.6	2693.0	2693.0
27.5°	5926.1	4718.1	3080.3	2785.4	2675.3	2614.9	2611.3	2572.2	2490.5	2437.2	2444.3
30°	6050.4	4625.7	2934.6	2643.3	2536.7	2526.0	2494.1	2405.2	2298.7	2231.2	2231.2
32.5°	6270.7	4441.0	2735.7	2497.6	2444.3	2430.1	2355.5	2277.3	2177.9	2113.9	2103.3
35°	6434.1	4270.5	2604.2	2373.3	2348.4	2320.0	2256.0	2170.8	2142.3	2128.1	2138.8
37.5°	6618.9	4078.6	2444.3	2266.7	2291.6	2238.3	2163.7	2124.6	2224.1	2199.2	2209.8
40°	6913.7	3943.6	2288.0	2202.7	2227.6	2167.2	2071.3	2057.1	2181.4	2092.6	2071.3
42.5°	7453.8	3940.1	2192.1	2106.8	2124.6	2078.4	1993.1	1986.0	2035.8	1929.2	1897.2
45°	8125.2	4064.4	2121.0	2035.8	2021.5	2014.4	1986.0	1954.0	1911.4	1772.8	1737.3
47.5°	8928.2	4266.9	2106.8	1929.2	1946.9	2007.3	1971.8	1890.1	1780.0	1691.1	1673.4
50°	9901.6	4686.1	2071.3	1851.0	1883.0	1978.9	1950.5	1836.8	1737.3	1680.5	1669.8
52.5°	10978.1	5215.5	2025.1	1730.2	1801.3	1954.0	1968.3	1861.7	1716.0	1666.3	1659.2
55°	12246.5	5997.1	1971.8	1598.8	1705.3	1929.2	1968.3	1790.6	1687.6	1687.6	1680.5
57.5°	14751.2	7404.0	1861.7	1478.0	1620.1	1883.0	1911.4	1794.2	1691.1	1691.1	1676.9
60°	18424.8	9599.7	1652.1	1385.6	1538.4	1819.0	1868.8	1740.9	1652.1	1673.4	1669.8
62.5°	21299.0	10267.6	1474.4	1296.8	1456.6	1701.8	1811.9	1684.0	1605.9	1684.0	1691.1
65°	21913.7	9592.6	1293.2	1200.8	1343.0	1588.1	1730.2	1602.3	1538.4	1691.1	1698.2
66°	21693.4	9066.7	1229.3	1172.4	1293.2	1531.3	1680.5	1573.9	1502.8	1684.0	1687.6
67.5°	20712.8	8278.0	1158.2	1112.0	1225.7	1449.5	1623.6	1534.8	1446.0	1662.7	1630.7
70°	18581.1	7020.3	1037.4	1005.4	1129.8	1314.5	1492.2	1435.3	1357.2	1531.3	1474.4
72.5°	14310.7	5609.9	909.5	913.1	1019.7	1176.0	1360.7	1321.6	1254.1	1343.0	1307.4
75°	8715.0	3584.8	792.3	799.4	888.2	1044.5	1236.4	1208.0	1126.2	1176.0	1158.2
77.5°	3861.9	1776.4	667.9	682.1	753.2	920.2	1076.5	1030.3	945.0	955.7	948.6
80°	1499.3	842.0	543.6	561.3	607.5	735.4	891.8	849.1	774.5	760.3	753.2
82.5°	721.2	469.0	419.2	426.3	444.1	586.2	767.4	714.1	614.6	550.7	550.7
85°	362.4	291.3	294.9	270.0	294.9	397.9	518.7	433.4	358.8	319.8	326.9
87.5°	145.7	145.7	145.7	124.3	131.5	188.3	241.6	163.4	149.2	88.8	88.8
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)