

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: P476781

Luminaire Tested: **IFLD-L-SA7E-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

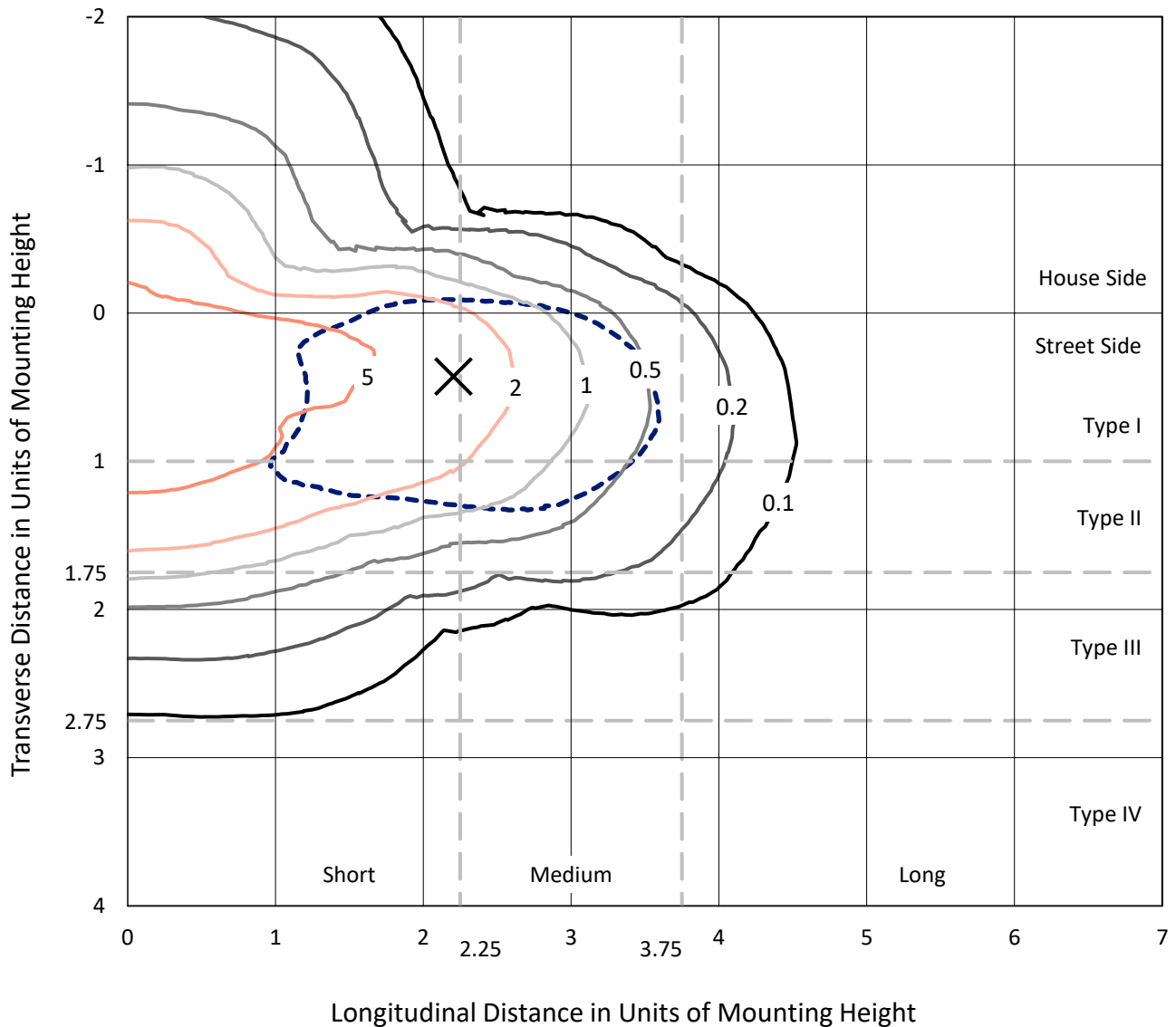
Lumens per Lamp: N/A
Luminaire Lumens: 44802.2 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

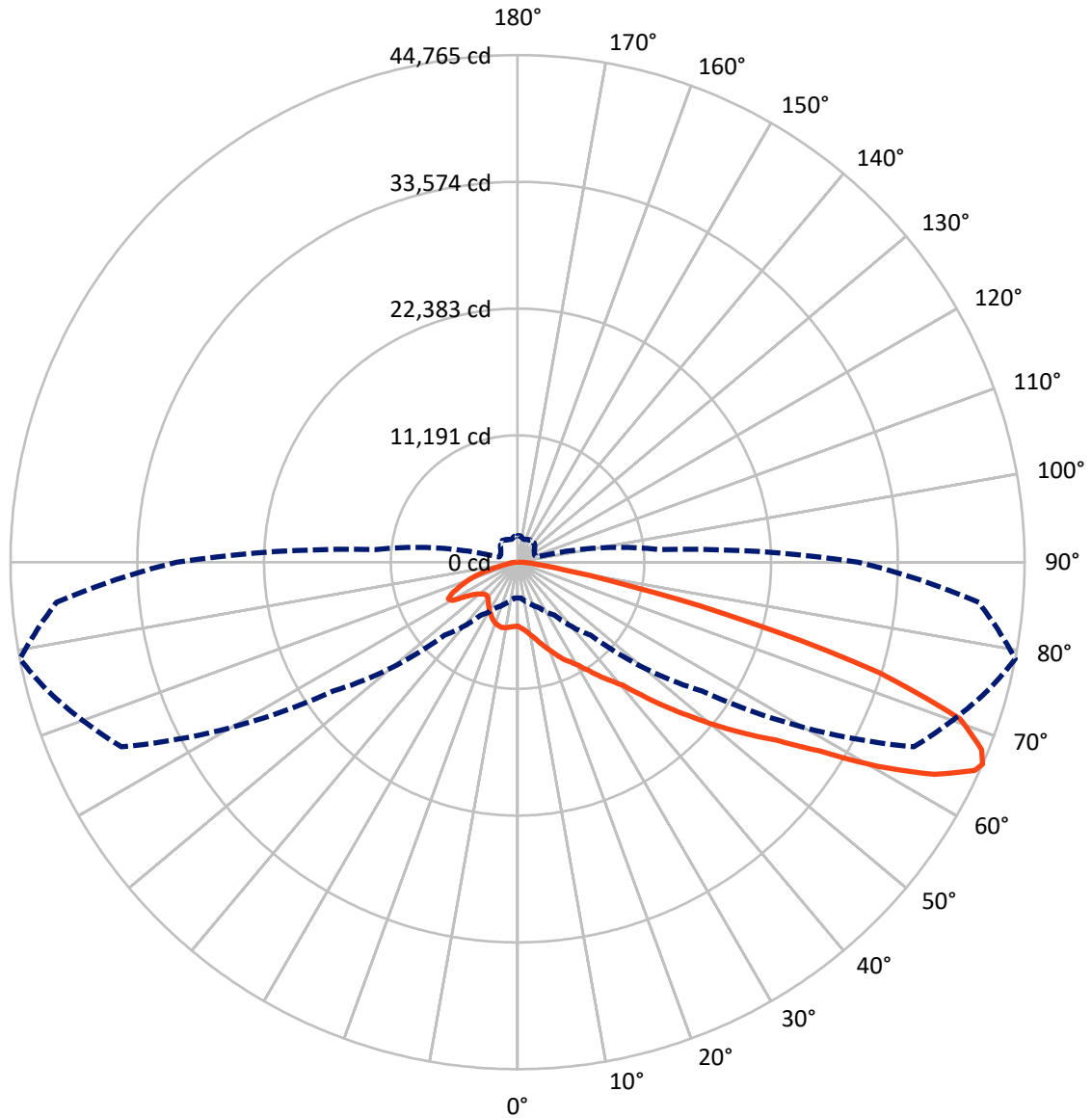
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9047.2	0.0	9047.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	35755.0	0.0	35755.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	44802.2	0.0	44802.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.3	1.2
10°-20°	1717.8	3.8
20°-30°	2948.6	6.6
30°-40°	4555.0	10.2
40°-50°	7295.9	16.3
50°-60°	10893.3	24.3
60°-70°	11192.9	25.0
70°-80°	4961.7	11.1
80°-90°	680.8	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°	44802.2	100.0
0°-180°	44802.2	100.0

Coefficient of Utilization

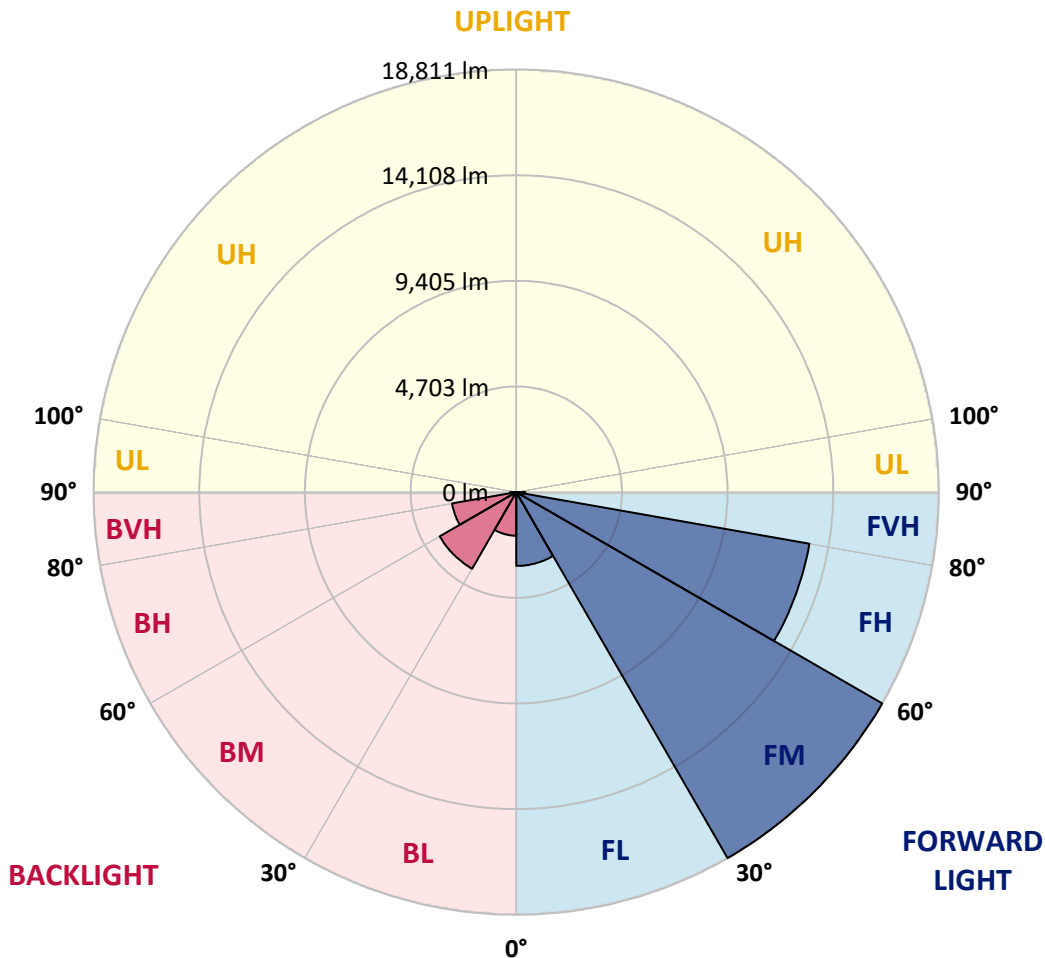


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3284.3	7.3			
FM (30°-60°)	18810.9	42.0			
FH (60°-80°)	13251.5	29.6			G5
FVH (80°-90°)	408.3	0.9			G3/500
BL (0°-30°)	1938.3	4.3	B3/2500		
BM (30°-60°)	3933.3	8.8	B3/5000		
BH (60°-80°)	2903.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	272.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
2.5°	6017.0	6021.9	6021.9	6002.2	6007.2	6021.9	5967.7	5849.5	5849.5	5829.7	5795.3
5°	6386.6	6362.0	6327.5	6332.4	6312.7	6312.7	6253.6	6140.2	6041.7	6002.2	5898.7
7.5°	6435.9	6460.5	6455.6	6514.7	6544.3	6544.3	6573.9	6480.2	6332.4	6238.8	6135.3
10°	6534.4	6470.4	6465.5	6603.4	6647.8	6751.3	6869.5	6820.3	6697.1	6564.0	6426.0
12.5°	6593.6	6633.0	6633.0	6702.0	6805.5	6958.2	7165.2	7258.9	7066.7	6928.7	6716.8
15°	6682.3	6628.1	6785.8	6844.9	7042.0	7150.4	7446.1	7687.6	7559.5	7391.9	7056.8
17.5°	6721.7	6687.2	6775.9	6884.3	7219.4	7382.1	7741.8	8076.9	7968.5	7860.1	7515.1
20°	6923.8	6918.8	6958.2	7047.0	7288.4	7608.7	8057.2	8520.4	8559.8	8362.7	7894.6
22.5°	7416.5	7352.5	7352.5	7318.0	7421.5	7751.6	8357.8	8998.4	9175.8	8944.2	8323.3
25°	7869.9	7958.6	7904.4	7746.7	7707.3	7879.8	8574.6	9506.0	9742.5	9525.7	8904.8
27.5°	8451.4	8481.0	8574.6	8362.7	8091.7	8145.9	8811.2	9791.8	10279.7	9988.9	9235.0
30°	9289.2	9235.0	9215.2	8978.7	8623.9	8550.0	9082.2	10210.7	10984.4	10575.4	9624.3
32.5°	9855.9	9988.9	9984.0	9658.8	9230.0	9067.4	9417.3	10604.9	11738.3	11358.9	10343.7
35°	10979.4	11117.4	11009.0	10531.0	10028.4	9703.1	9900.2	11117.4	12600.7	12305.1	10954.8
37.5°	12413.5	12738.7	12507.1	11625.0	10915.4	10560.6	10570.4	11674.3	13482.8	13241.4	11610.2
40°	13404.0	13842.6	13522.3	12694.4	11940.4	11605.3	11472.2	12334.6	14537.4	14281.2	12635.2
42.5°	14631.0	14995.7	14828.2	14010.1	13128.0	12842.2	12576.1	13438.5	16148.9	16030.6	13951.0
45°	15971.4	16143.9	16089.7	15572.3	14591.6	14493.1	13906.6	14892.2	18046.1	18095.4	15596.9
47.5°	17218.2	17311.8	17415.3	17040.8	16429.7	16513.5	15439.2	16449.5	19889.2	20214.4	17430.1
50°	17538.5	17858.8	18100.3	18351.6	18484.7	19051.4	17129.5	18361.5	22008.2	22638.9	19470.3
52.5°	17213.3	17188.6	17922.9	18711.4	20041.9	21229.6	19430.9	20736.8	23880.8	25127.6	21338.0
55°	15734.9	15685.6	16868.3	17913.1	20510.1	22441.8	22717.8	23900.5	26142.7	27764.0	23866.0
57.5°	13147.7	12842.2	14133.3	15848.2	19494.9	22574.9	26019.5	28596.8	29621.8	31469.8	27724.6
60°	8835.8	8707.7	9944.6	11989.7	15828.5	20687.5	27995.6	34475.9	34525.1	36604.7	33712.0
62.5°	5440.4	5465.1	6258.5	7791.1	11082.9	16400.2	27143.1	39172.2	39182.0	41266.5	38640.0
65°	3558.0	3572.8	4213.4	5061.0	6923.8	11122.4	22446.8	39541.8	42419.7	44356.4	40897.0
66°	3168.7	3173.6	3725.5	4415.4	5736.1	9101.9	19825.1	38580.8	43149.0	44765.4	40867.4
67.5°	2670.9	2735.0	3178.5	3710.7	4474.6	6539.4	15730.0	35801.5	42774.5	44193.7	39940.9
70°	2089.4	2123.9	2473.8	3015.9	3355.9	3784.7	9348.3	29183.2	39152.5	41453.8	36570.2
72.5°	1675.5	1705.1	1971.2	2449.2	2725.1	2493.5	5090.6	21175.3	30927.7	33381.8	28764.4
75°	1414.3	1419.2	1547.4	1926.8	2242.2	1872.6	2710.4	13591.3	19844.8	20988.1	17622.3
77.5°	1143.3	1163.0	1251.7	1468.5	1803.6	1473.5	1616.4	7613.7	9964.3	10048.1	8145.9
80°	931.4	941.2	995.4	1069.4	1374.9	1089.1	1094.0	3715.7	4272.5	4174.0	3311.6
82.5°	734.3	744.1	808.2	793.4	1010.2	778.6	680.1	1788.8	1966.2	1926.8	1522.7
85°	413.9	413.9	635.7	635.7	640.6	492.8	413.9	842.7	1039.8	970.8	714.6
87.5°	133.1	138.0	192.2	202.0	320.3	221.8	202.0	315.4	492.8	433.7	256.3
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°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
2.5°	5775.5	5696.7	5662.2	5548.9	5519.3	5445.4	5410.9	5366.5	5351.7	5287.7	5346.8
5°	5819.9	5795.3	5657.3	5514.4	5405.9	5356.7	5282.7	5184.2	5174.3	5085.6	5075.8
7.5°	6007.2	5923.4	5681.9	5529.1	5312.3	5189.1	5026.5	4977.2	4913.2	4883.6	4947.6
10°	6297.9	6086.0	5726.3	5341.9	5075.8	4927.9	4809.7	4775.2	4780.1	4760.4	4730.8
12.5°	6504.9	6302.8	5652.3	5184.2	4839.2	4696.3	4686.5	4721.0	4775.2	4750.5	4785.0
15°	6800.6	6421.1	5598.1	4923.0	4647.0	4607.6	4602.7	4706.2	4701.3	4701.3	4696.3
17.5°	7076.5	6539.4	5401.0	4696.3	4445.0	4474.6	4509.1	4504.1	4553.4	4573.1	4607.6
20°	7426.4	6677.4	5125.1	4469.6	4292.2	4282.4	4277.4	4282.4	4331.7	4361.2	4336.6
22.5°	7731.9	6706.9	4893.4	4252.8	4109.9	4070.5	4006.4	4070.5	4045.8	4055.7	4085.3
25°	7998.0	6711.9	4563.3	4090.2	3927.6	3838.9	3789.6	3784.7	3740.3	3735.4	3735.4
27.5°	8219.8	6544.3	4272.5	3863.5	3710.7	3627.0	3622.0	3567.8	3454.5	3380.6	3390.4
30°	8392.3	6416.2	4070.5	3666.4	3518.5	3503.8	3459.4	3336.2	3188.4	3094.7	3094.7
32.5°	8697.8	6159.9	3794.5	3464.3	3390.4	3370.7	3267.2	3158.8	3020.8	2932.1	2917.3
35°	8924.5	5923.4	3612.2	3291.9	3257.4	3217.9	3129.2	3011.0	2971.5	2951.8	2966.6
37.5°	9180.7	5657.3	3390.4	3144.0	3178.5	3104.6	3001.1	2946.9	3084.9	3050.4	3065.2
40°	9589.8	5470.0	3173.6	3055.3	3089.8	3006.0	2873.0	2853.3	3025.8	2902.6	2873.0
42.5°	10338.8	5465.1	3040.5	2922.3	2946.9	2882.8	2764.6	2754.7	2823.7	2675.9	2631.5
45°	11270.2	5637.6	2942.0	2823.7	2804.0	2794.1	2754.7	2710.4	2651.2	2459.0	2409.8
47.5°	12383.9	5918.5	2922.3	2675.9	2700.5	2784.3	2735.0	2621.7	2468.9	2345.7	2321.1
50°	13734.2	6499.9	2873.0	2567.5	2611.8	2744.9	2705.4	2547.7	2409.8	2330.9	2316.1
52.5°	15227.3	7234.2	2808.9	2399.9	2498.5	2710.4	2730.1	2582.2	2380.2	2311.2	2301.3
55°	16986.6	8318.4	2735.0	2217.6	2365.4	2675.9	2730.1	2483.7	2340.8	2340.8	2330.9
57.5°	20460.8	10269.8	2582.2	2050.0	2247.1	2611.8	2651.2	2488.6	2345.7	2345.7	2326.0
60°	25556.3	13315.3	2291.5	1921.9	2133.8	2523.1	2592.1	2414.7	2291.5	2321.1	2316.1
62.5°	29543.0	14241.7	2045.1	1798.7	2020.5	2360.5	2513.2	2335.8	2227.4	2335.8	2345.7
65°	30395.5	13305.4	1793.8	1665.6	1862.8	2202.8	2399.9	2222.5	2133.8	2345.7	2355.6
66°	30090.0	12576.1	1705.1	1626.2	1793.8	2123.9	2330.9	2183.1	2084.5	2335.8	2340.8
67.5°	28729.9	11482.1	1606.5	1542.4	1700.1	2010.6	2252.1	2128.9	2005.7	2306.3	2261.9
70°	25773.1	9737.6	1439.0	1394.6	1567.1	1823.3	2069.7	1990.9	1882.5	2123.9	2045.1
72.5°	19849.7	7781.2	1261.6	1266.5	1414.3	1631.1	1887.4	1833.2	1739.6	1862.8	1813.5
75°	12088.2	4972.3	1098.9	1108.8	1232.0	1448.8	1714.9	1675.5	1562.2	1631.1	1606.5
77.5°	5356.7	2464.0	926.5	946.2	1044.7	1276.3	1493.2	1429.1	1310.8	1325.6	1315.8
80°	2079.6	1167.9	754.0	778.6	842.7	1020.1	1236.9	1177.8	1074.3	1054.6	1044.7
82.5°	1000.4	650.5	581.5	591.4	616.0	813.1	1064.4	990.5	852.5	763.8	763.8
85°	502.6	404.1	409.0	374.5	409.0	551.9	719.5	601.2	497.7	443.5	453.4
87.5°	202.0	202.0	202.0	172.5	182.3	261.2	335.1	226.7	207.0	123.2	123.2
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)