

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: P478335

Luminaire Tested: **IFLD-M-SA4D-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478335
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

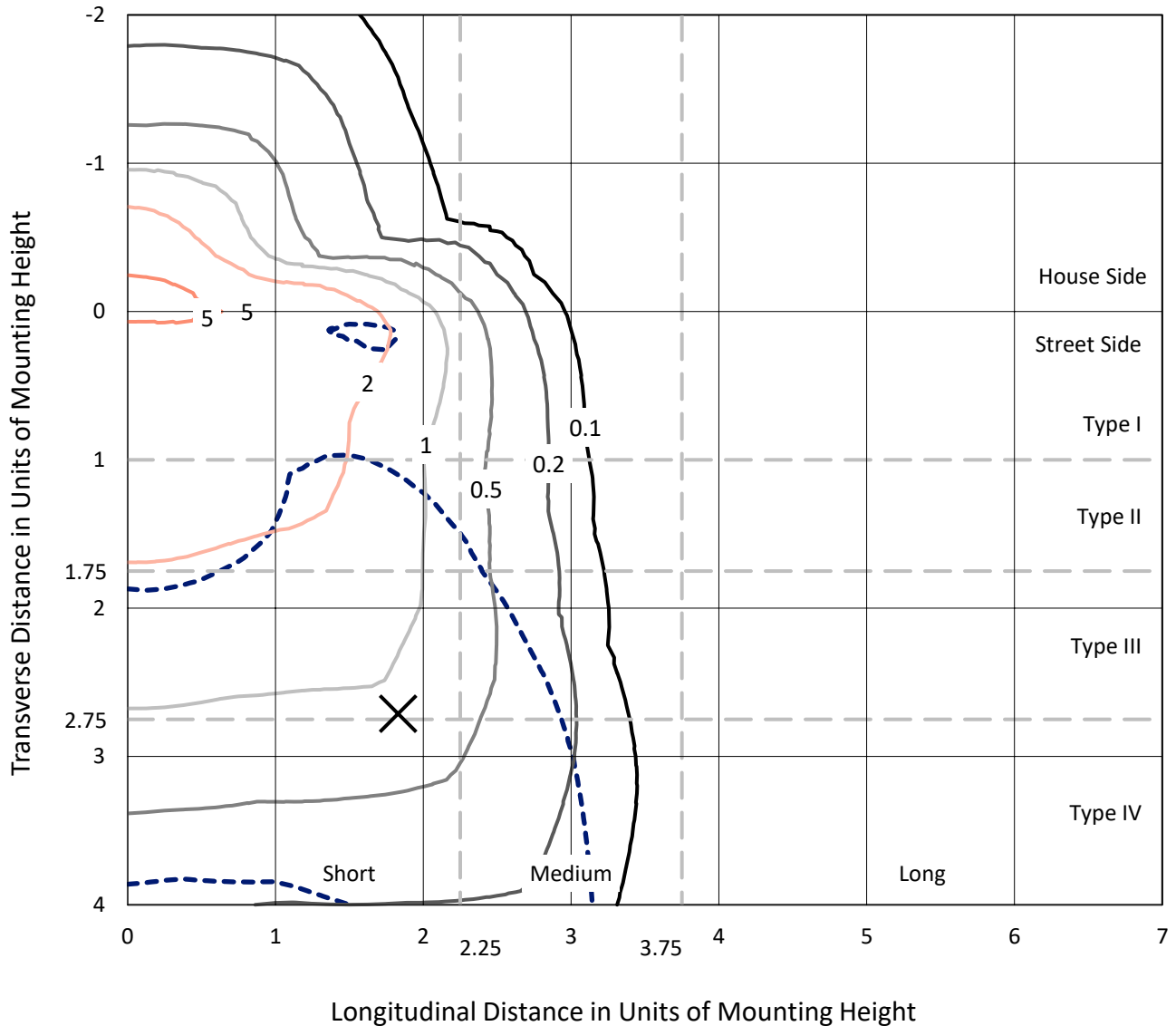
Lumens per Lamp: N/A
Luminaire Lumens: 25467 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

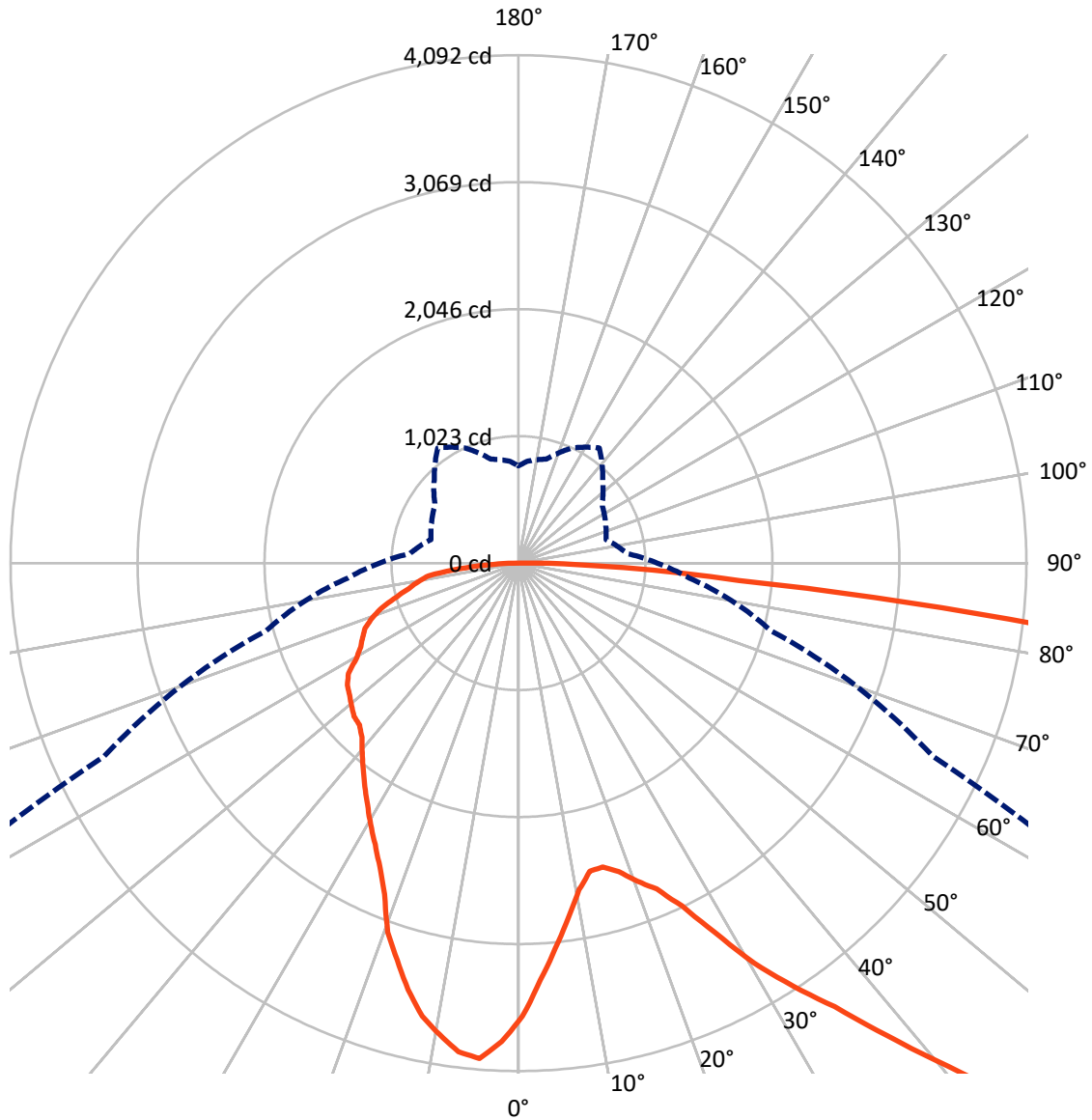
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5501.2	0.0	5501.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19965.8	0.0	19965.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	25467.0	0.0	25467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	1.3
10°-20°	943.1	3.7
20°-30°	1552.1	6.1
30°-40°	2321.2	9.1
40°-50°	3441.1	13.5
50°-60°	4959.0	19.5
60°-70°	6328.3	24.8
70°-80°	4924.5	19.3
80°-90°	660.7	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°	25467.0	100.0
0°-180°	25467.0	100.0

Coefficient of Utilization



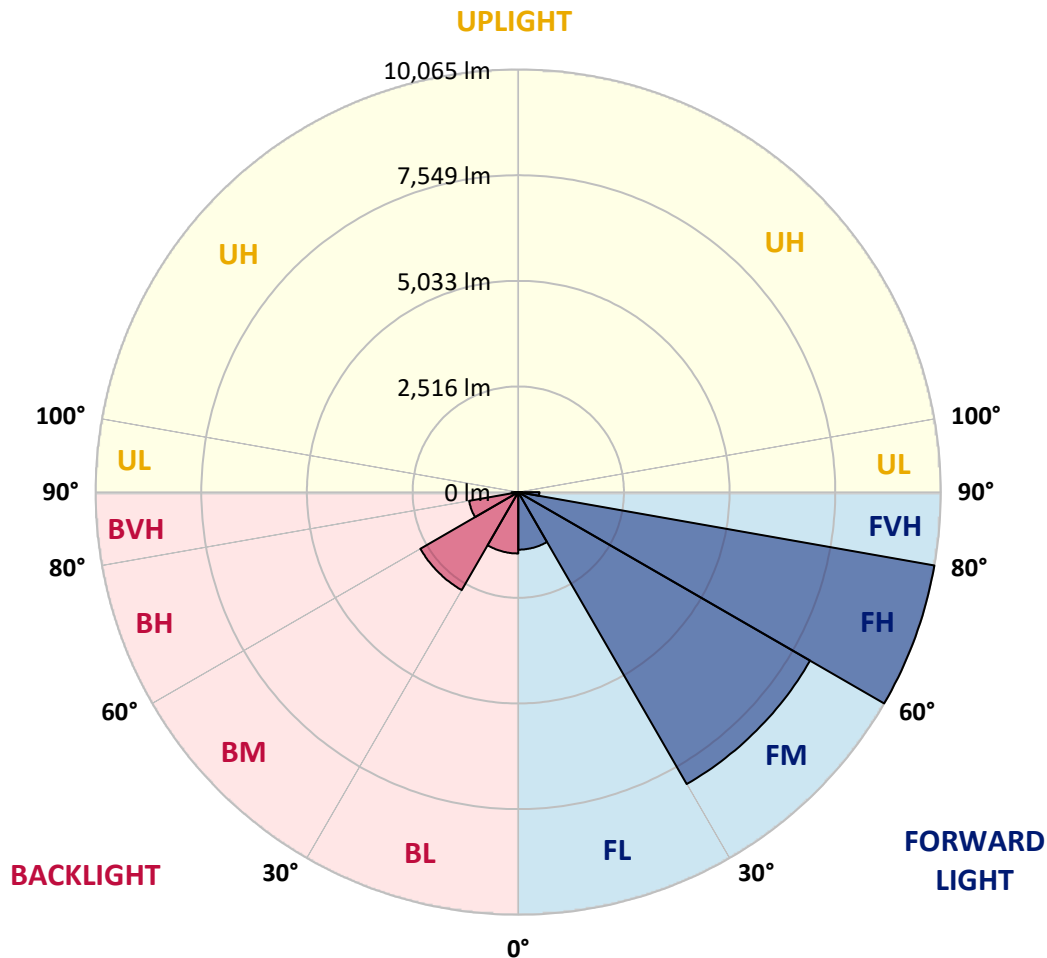
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.6	5.4			
FM (30°-60°)	8027.4	31.5			
FH (60°-80°)	10065.0	39.5			G4/12000
FVH (80°-90°)	502.9	2.0			G4/750
BL (0°-30°)	1461.6	5.7	B3/2500		
BM (30°-60°)	2694.0	10.6	B3/5000		
BH (60°-80°)	1187.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	157.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3271.4	3282.2	3317.2	3325.3	3363.0	3341.5	3387.2	3468.0	3513.8	3581.1	3661.9
5°	3013.0	2967.2	2988.7	3072.2	3115.3	3126.1	3174.5	3311.8	3398.0	3497.6	3648.4
7.5°	2708.7	2700.6	2743.7	2797.6	2883.7	2891.8	2999.5	3120.7	3298.4	3519.2	3696.9
10°	2501.4	2536.4	2560.6	2617.2	2676.4	2676.4	2813.7	3023.7	3225.7	3438.4	3707.6
12.5°	2490.6	2469.1	2474.5	2504.1	2547.2	2601.0	2730.2	2918.7	3174.5	3422.2	3753.4
15°	2525.6	2533.7	2485.2	2522.9	2539.1	2557.9	2700.6	2913.3	3142.2	3478.8	3831.5
17.5°	2711.4	2665.6	2590.2	2555.2	2611.8	2611.8	2708.7	2875.6	3147.6	3508.4	3944.6
20°	2856.8	2856.8	2732.9	2695.2	2735.6	2727.6	2794.9	2918.7	3174.5	3567.6	4071.1
22.5°	3101.8	3136.8	2932.2	2854.1	2851.4	2873.0	2932.2	3037.2	3249.9	3651.1	4192.3
25°	3454.5	3462.6	3225.7	3144.9	3058.7	3093.7	3104.5	3209.5	3317.2	3748.0	4329.6
27.5°	3847.7	3842.3	3624.2	3422.2	3365.7	3373.8	3314.5	3384.5	3416.8	3777.6	4526.2
30°	4283.8	4235.4	4071.1	3785.7	3740.0	3688.8	3559.6	3556.9	3624.2	3944.6	4798.1
32.5°	4569.3	4507.3	4394.2	4189.6	4063.1	4068.4	3863.8	3861.1	3801.9	4127.7	5035.1
35°	4849.3	4755.0	4725.4	4515.4	4388.9	4402.3	4238.1	4216.5	4108.8	4405.0	5425.5
37.5°	5185.9	5102.4	5148.2	4989.3	4833.1	4768.5	4693.1	4666.2	4526.2	4795.4	5958.6
40°	5557.4	5530.5	5500.9	5422.8	5328.6	5333.9	5253.2	5226.2	5018.9	5266.6	6470.2
42.5°	6058.2	5955.9	5802.4	5853.6	5902.1	5953.2	5926.3	5856.3	5640.9	5745.9	7041.0
45°	6524.0	6389.4	6106.7	6122.9	6322.1	6362.5	6688.3	6680.2	6246.7	6354.4	7689.9
47.5°	6839.1	6777.1	6607.5	6588.7	6874.1	6871.4	7458.4	7458.4	6884.8	6960.2	8387.3
50°	7307.6	7146.0	7073.3	7167.6	7313.0	7412.6	8244.6	8295.7	7512.2	7593.0	9300.1
52.5°	7856.9	7654.9	7471.8	7714.2	7972.6	8037.3	9022.7	9001.2	7994.2	8328.1	10369.0
55°	8311.9	8209.6	8083.0	8223.0	8645.8	8726.6	9803.6	9604.3	8476.1	8936.6	10883.3
57.5°	8842.3	8904.3	8931.2	8896.2	9399.7	9526.2	10694.8	10124.0	8890.8	9345.8	11184.9
60°	9642.0	9679.7	9714.7	9798.2	10331.3	10509.0	11400.3	10775.6	9152.0	9582.8	11209.1
62.5°	10859.1	10713.7	10791.7	11079.8	11508.0	11709.9	12439.6	11233.3	9351.2	9725.5	10417.5
65°	12251.1	12054.5	11973.8	12345.3	13454.7	13293.1	13737.4	11575.3	9063.1	9192.4	8834.3
67.5°	13662.0	13683.5	13476.2	14222.0	15581.8	15581.8	14943.7	11739.5	8282.3	7450.3	6195.6
70°	14782.1	14849.4	14962.5	16408.4	18562.4	18888.2	16438.0	11066.4	6691.0	4959.7	3387.2
72.5°	14765.9	14564.0	15142.9	17805.8	21271.1	20999.2	16750.4	8750.8	4176.1	2428.7	1553.6
73°	14434.8	14265.1	14897.9	17792.4	21381.5	21125.7	16521.5	8066.9	3683.4	2105.6	1381.3
75°	11788.0	11481.0	12558.1	16114.9	19782.2	19978.7	14036.3	5261.2	2019.4	1297.8	972.0
77.5°	5374.3	5509.0	6911.8	10810.6	15245.2	15476.8	9227.4	2275.2	1106.6	910.1	716.2
80°	1725.9	1812.1	2689.9	5374.3	9555.9	9973.2	4265.0	1033.9	788.9	697.4	535.8
82.5°	659.7	657.0	1128.2	2234.8	4528.9	4795.4	1559.0	630.1	587.0	514.3	379.6
85°	231.6	242.3	425.4	883.2	1782.5	1865.9	541.2	350.0	406.6	344.6	218.1
87.5°	80.8	83.5	150.8	320.4	613.9	648.9	150.8	140.0	201.9	199.2	110.4
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°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3688.8	3713.0	3721.1	3818.0	3818.0	3818.0	3855.7	3855.7	3845.0	3818.0	3882.7
5°	3704.9	3748.0	3831.5	3915.0	3936.5	3955.4	4006.5	3963.4	3979.6	3952.7	3976.9
7.5°	3750.7	3810.0	3966.1	4017.3	3982.3	4022.7	3968.8	3939.2	3909.6	3920.4	3882.7
10°	3828.8	3904.2	3976.9	4071.1	4003.8	3963.4	3853.0	3826.1	3731.9	3699.6	3729.2
12.5°	3925.7	4017.3	4141.1	4106.1	3976.9	3861.1	3742.6	3629.6	3573.0	3492.2	3513.8
15°	4022.7	4127.7	4146.5	4087.3	3925.7	3780.3	3564.9	3406.1	3349.5	3276.8	3314.5
17.5°	4127.7	4227.3	4195.0	4041.5	3823.4	3602.6	3357.6	3201.4	3083.0	3037.2	3037.2
20°	4283.8	4332.3	4281.2	3966.1	3699.6	3408.8	3171.8	2994.1	2875.6	2856.8	2827.2
22.5°	4405.0	4483.1	4254.2	3855.7	3519.2	3155.7	2883.7	2816.4	2781.4	2751.8	2714.1
25°	4561.2	4558.5	4205.8	3753.4	3209.5	2854.1	2689.9	2684.5	2668.3	2657.5	2708.7
27.5°	4709.3	4647.3	4149.2	3500.3	2889.1	2625.2	2536.4	2595.6	2619.9	2603.7	2625.2
30°	4943.5	4841.2	4068.4	3231.1	2606.4	2393.7	2409.8	2490.6	2531.0	2555.2	2522.9
32.5°	5191.2	5035.1	3901.5	2951.0	2356.0	2248.3	2286.0	2369.4	2417.9	2444.8	2474.5
35°	5549.3	5185.9	3731.9	2584.8	2175.6	2159.4	2181.0	2226.7	2296.7	2315.6	2323.7
37.5°	5990.9	5414.7	3503.0	2291.4	2035.6	2054.4	2076.0	2092.1	2094.8	2129.8	2116.3
40°	6432.5	5608.6	3169.1	2011.3	1890.2	1992.5	1981.7	1952.1	1927.9	1895.6	1887.5
42.5°	6820.2	5778.2	2797.6	1774.4	1760.9	1927.9	1892.9	1817.5	1760.9	1736.7	1696.3
45°	7256.4	6017.8	2423.3	1626.3	1661.3	1849.8	1839.0	1723.2	1650.5	1564.4	1553.6
47.5°	7821.9	6268.3	2065.2	1472.8	1567.1	1820.2	1825.5	1677.5	1572.4	1456.7	1440.5
50°	8546.2	6629.1	1793.2	1408.2	1510.5	1777.1	1785.2	1615.5	1478.2	1359.7	1349.0
52.5°	9240.8	6997.9	1567.1	1308.6	1472.8	1725.9	1744.8	1559.0	1400.1	1252.0	1260.1
55°	9590.9	6863.3	1373.2	1235.9	1386.7	1642.5	1712.5	1518.6	1281.7	1179.3	1176.6
57.5°	9668.9	6532.1	1219.7	1160.5	1314.0	1553.6	1658.6	1397.4	1227.8	1141.6	1130.9
60°	9413.2	5953.2	1098.6	1079.7	1222.4	1462.1	1534.8	1332.8	1174.0	1103.9	1087.8
62.5°	8783.1	5352.8	1015.1	1042.0	1144.3	1362.4	1456.7	1287.0	1122.8	1074.3	1039.3
65°	7202.6	4402.3	947.8	969.3	1063.6	1265.5	1408.2	1235.9	1077.0	1031.2	1028.6
67.5°	4989.3	3034.5	893.9	934.3	998.9	1195.5	1359.7	1179.3	1017.8	1001.6	980.1
70°	2555.2	1618.2	823.9	856.2	928.9	1106.6	1273.6	1120.1	955.9	953.2	926.2
72.5°	1295.1	947.8	743.1	791.6	842.8	990.9	1165.9	1042.0	877.8	848.2	805.1
73°	1120.1	877.8	729.7	772.8	821.2	958.5	1133.6	1023.2	867.0	823.9	783.5
75°	815.8	692.0	654.3	697.4	735.1	864.3	1025.9	937.0	797.0	751.2	713.5
77.5°	611.2	533.1	543.9	592.4	624.7	745.8	912.8	848.2	721.6	659.7	643.5
80°	449.7	406.6	449.7	495.4	519.7	657.0	832.0	735.1	608.5	538.5	525.0
82.5°	320.4	296.2	347.3	377.0	387.7	543.9	748.5	587.0	460.4	368.9	339.3
85°	183.1	180.4	234.3	231.6	239.6	317.7	492.7	390.4	296.2	226.2	220.8
87.5°	80.8	88.9	118.5	94.2	99.6	150.8	210.0	145.4	121.2	67.3	51.2
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)