

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: P478733

Luminaire Tested: **IFLD-L-SA8B-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478733
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

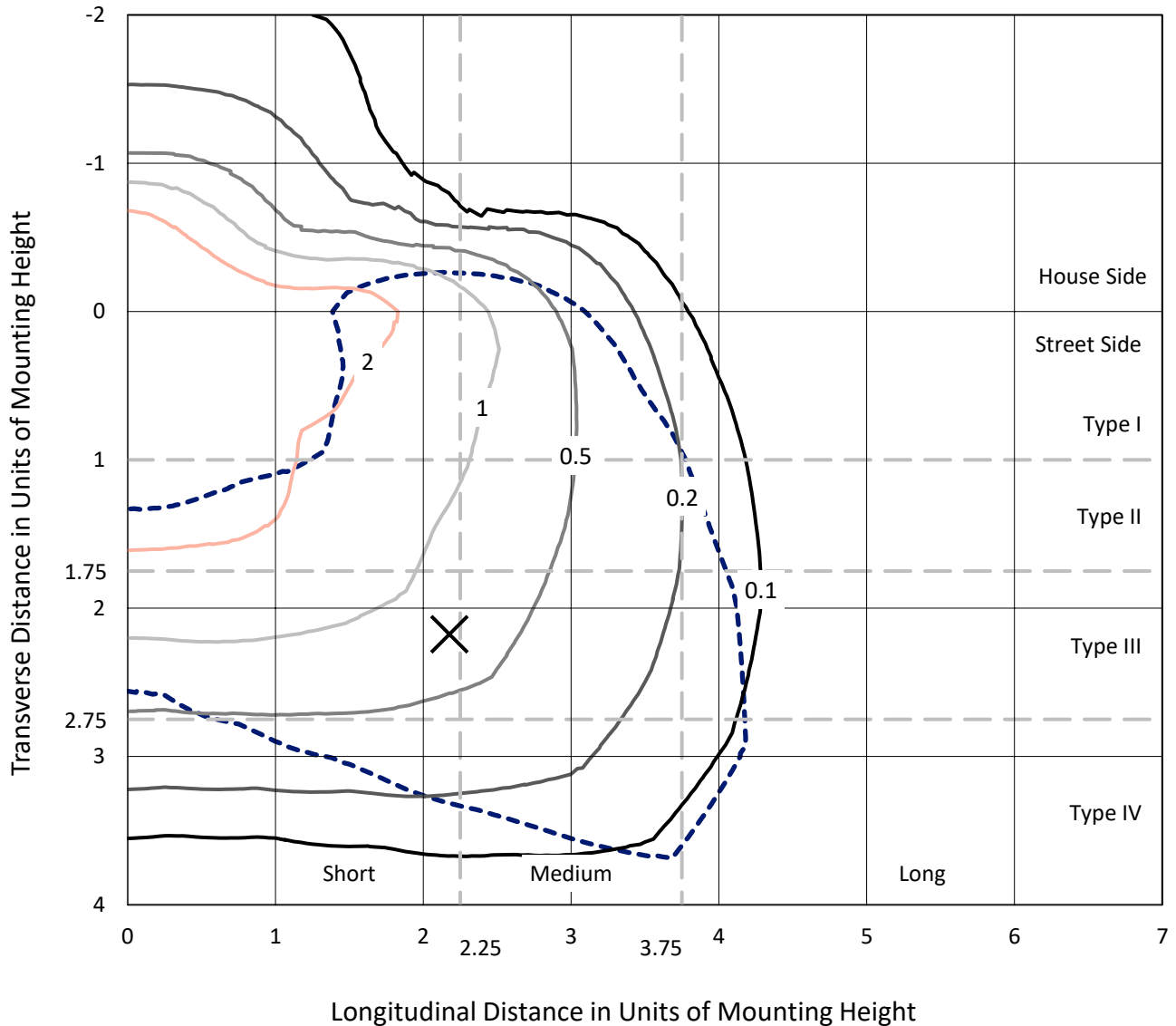
Lumens per Lamp: N/A
Luminaire Lumens: 32687.8 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

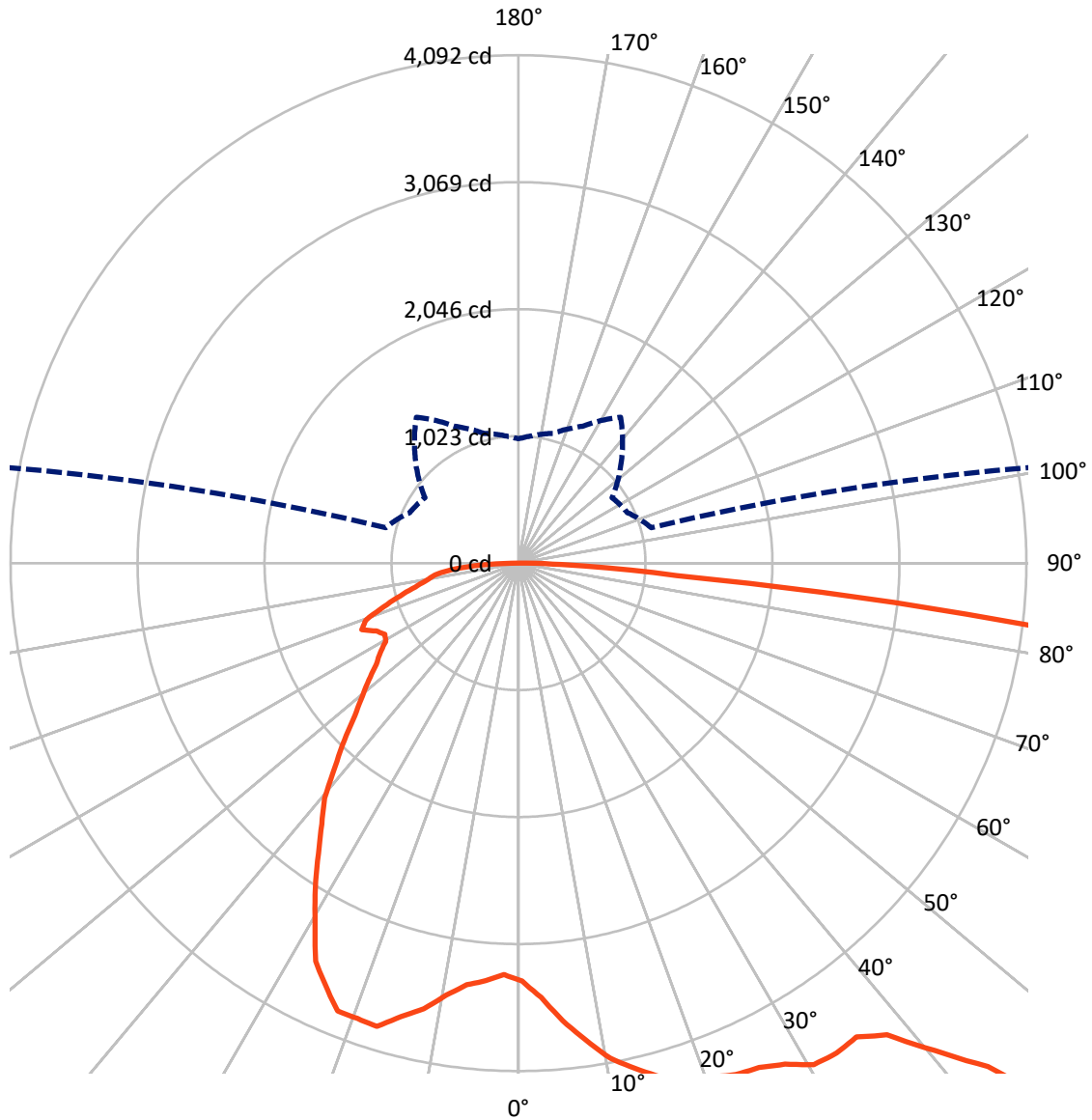
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7276.5	0.0	7276.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25411.3	0.0	25411.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	32687.8	0.0	32687.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.1
10°-20°	1146.0	3.5
20°-30°	1935.3	5.9
30°-40°	2678.2	8.2
40°-50°	3830.9	11.7
50°-60°	6178.8	18.9
60°-70°	9112.9	27.9
70°-80°	6617.5	20.2
80°-90°	843.6	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°	32687.8	100.0
0°-180°	32687.8	100.0

Coefficient of Utilization



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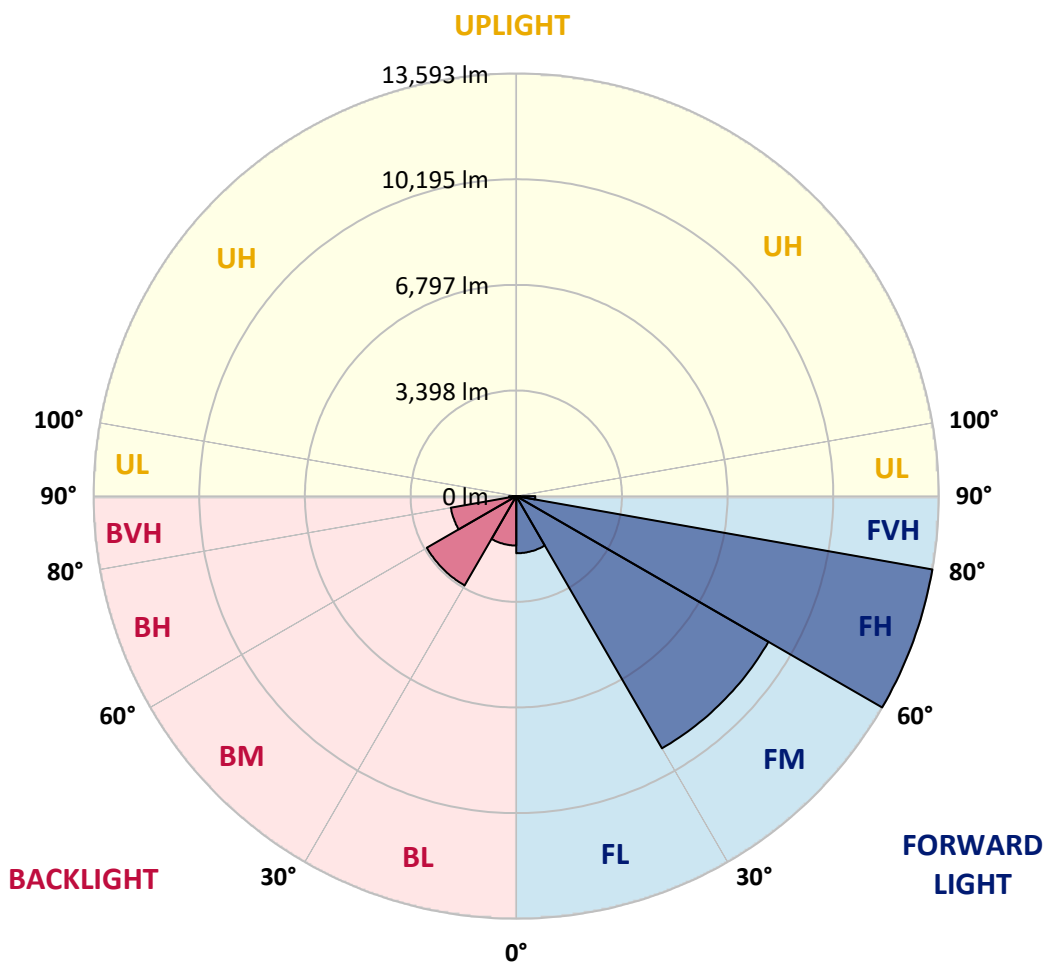
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.1	5.6			
FM (30°-60°)	9367.2	28.7			
FH (60°-80°)	13593.0	41.6			G5
FVH (80°-90°)	614.0	1.9			G4/750
BL (0°-30°)	1588.8	4.9	B3/2500		
BM (30°-60°)	3320.8	10.2	B3/5000		
BH (60°-80°)	2137.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	229.6	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2
2.5°	3546.0	3567.2	3546.0	3542.5	3507.2	3482.6	3503.7	3472.0	3436.7	3422.6	3390.9
5°	3870.3	3873.8	3835.1	3838.6	3764.6	3687.0	3701.1	3605.9	3503.7	3464.9	3401.5
7.5°	4201.6	4162.9	4106.5	4088.8	3972.5	3887.9	3877.4	3792.8	3634.1	3546.0	3457.9
10°	4416.7	4430.8	4339.1	4261.6	4162.9	4060.6	4057.1	3898.5	3806.9	3676.4	3563.6
12.5°	4607.0	4610.5	4533.0	4409.6	4286.2	4159.3	4177.0	4106.5	3951.4	3828.0	3715.2
15°	4755.0	4733.9	4649.3	4536.5	4406.1	4307.4	4296.8	4236.9	4106.5	4004.3	3817.4
17.5°	4797.3	4786.8	4702.2	4582.3	4455.4	4381.4	4409.6	4310.9	4258.0	4166.4	3986.6
20°	4716.3	4691.6	4677.5	4543.6	4451.9	4444.9	4420.2	4441.3	4353.2	4268.6	4138.2
22.5°	4568.2	4557.7	4550.6	4444.9	4402.6	4434.3	4476.6	4508.3	4494.2	4413.1	4265.1
25°	4416.7	4466.0	4420.2	4370.8	4430.8	4511.8	4501.3	4603.5	4603.5	4578.8	4455.4
27.5°	4522.4	4490.7	4455.4	4430.8	4451.9	4578.8	4571.8	4695.1	4740.9	4695.1	4554.1
30°	4786.8	4755.0	4652.8	4543.6	4515.4	4652.8	4688.1	4797.3	4818.5	4705.7	4585.9
32.5°	5283.8	5266.2	5104.0	4783.2	4610.5	4688.1	4705.7	4829.1	4811.4	4740.9	4691.6
35°	6020.5	5960.6	5735.0	5192.1	4811.4	4733.9	4688.1	4786.8	4853.7	4818.5	4772.7
37.5°	6827.7	6760.7	6482.2	5794.9	5174.5	4857.3	4822.0	4903.1	4980.6	4963.0	4867.8
40°	7599.6	7599.6	7349.4	6549.2	5713.8	5156.9	5163.9	5072.3	5142.8	5111.1	5128.7
42.5°	8361.0	8332.8	8230.6	7433.9	6291.9	5657.4	5544.6	5315.5	5442.4	5431.8	5456.5
45°	9132.9	9111.8	9083.6	8258.8	7120.2	6334.2	6274.3	5861.9	5978.2	5928.8	6034.6
47.5°	9749.8	9774.5	9774.5	9178.8	8005.0	7236.6	7148.4	6496.3	6718.4	6743.1	6767.7
50°	10275.0	10285.6	10275.0	10056.5	8991.9	8269.3	8089.6	7426.9	7649.0	7842.8	8068.4
52.5°	11001.1	11015.2	10965.9	10881.3	10331.4	9355.0	9154.1	8417.4	8872.1	9076.5	9481.9
55°	11896.4	11790.7	11699.0	11762.5	11618.0	10549.9	10342.0	9439.6	10123.4	10394.8	11205.6
57.5°	12062.1	12153.7	12386.4	12890.4	13098.4	11713.1	11593.3	10694.5	11536.9	11773.1	13126.6
60°	12647.2	12495.7	13066.7	14159.4	14392.0	13228.8	13105.5	12069.2	12943.3	13190.1	14899.6
62.5°	13031.4	13024.4	13870.4	15167.5	15696.2	14800.9	14550.7	13856.3	14462.5	14702.2	16831.2
65°	12918.6	13020.9	14522.5	15759.7	16785.4	16588.0	16443.5	15393.1	16193.2	16172.1	18089.6
67.5°	11889.4	12178.4	14110.1	16186.2	18406.9	18766.4	18720.6	17553.8	17599.7	17152.0	18650.1
70°	10461.8	10363.1	12365.2	15742.1	19217.6	21350.1	21339.6	19161.2	18865.1	17367.0	17042.7
72°	8036.7	7927.4	9573.5	13517.9	18791.1	22382.9	22700.2	20275.0	18851.0	16475.2	14078.3
72.5°	7296.5	7201.3	8840.4	12724.8	18318.7	22650.8	22502.8	20317.3	18703.0	16055.8	13151.3
75°	3359.2	3249.9	4416.7	7790.0	14289.8	20070.6	20574.7	19013.1	16334.2	12781.2	7878.1
77.5°	1001.1	969.3	1420.5	3144.2	8304.6	14786.8	14980.7	14346.2	11403.0	7000.4	2922.1
80°	556.9	560.5	733.2	1177.3	3651.8	8547.8	9245.7	8861.5	5594.0	2312.3	972.9
82.5°	310.2	327.8	458.2	697.9	1677.8	3923.2	4222.8	4071.2	2023.3	1085.7	532.3
85°	162.1	169.2	239.7	373.6	951.7	1240.8	1276.0	1367.6	1050.4	740.2	285.5
87.5°	63.4	63.4	88.1	155.1	352.5	384.2	345.4	419.5	602.8	479.4	141.0
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°	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2	3366.2
2.5°	3419.1	3390.9	3387.4	3341.6	3355.7	3316.9	3320.4	3313.4	3316.9	3309.9	3292.2
5°	3401.5	3380.3	3320.4	3359.2	3324.0	3373.3	3412.1	3398.0	3408.5	3405.0	3408.5
7.5°	3426.2	3398.0	3390.9	3369.8	3401.5	3422.6	3454.4	3542.5	3535.4	3546.0	3567.2
10°	3500.2	3468.5	3447.3	3479.0	3461.4	3528.4	3563.6	3609.5	3690.5	3694.1	3651.8
12.5°	3644.7	3623.6	3581.3	3588.3	3648.2	3669.4	3690.5	3718.7	3771.6	3761.0	3799.8
15°	3810.4	3764.6	3739.9	3732.8	3746.9	3771.6	3768.1	3796.3	3824.5	3849.2	3838.6
17.5°	3930.2	3870.3	3877.4	3912.6	3909.1	3902.0	3856.2	3842.1	3856.2	3870.3	3863.3
20°	4053.6	4060.6	4007.8	3976.1	3962.0	3891.5	3856.2	3813.9	3771.6	3792.8	3824.5
22.5°	4208.7	4177.0	4099.4	4004.3	3933.8	3891.5	3782.2	3708.2	3708.2	3729.3	3718.7
25°	4384.9	4318.0	4184.0	4011.3	3923.2	3743.4	3665.9	3655.3	3627.1	3658.8	3672.9
27.5°	4522.4	4462.5	4279.2	3986.6	3743.4	3598.9	3553.1	3539.0	3584.8	3588.3	3644.7
30°	4578.8	4561.2	4293.3	3923.2	3560.1	3327.5	3299.3	3362.7	3412.1	3486.1	3489.6
32.5°	4652.8	4659.9	4314.4	3775.1	3320.4	3087.8	3045.5	3123.0	3264.0	3324.0	3369.8
35°	4776.2	4811.4	4296.8	3591.8	3066.6	2844.6	2837.5	2858.7	2996.1	3101.9	3161.8
37.5°	4991.2	4984.2	4293.3	3373.3	2865.7	2633.1	2576.7	2583.7	2675.4	2763.5	2752.9
40°	5280.3	5252.1	4282.7	3087.8	2604.9	2453.3	2358.1	2322.9	2315.8	2291.2	2298.2
42.5°	5675.0	5618.6	4279.2	2798.7	2368.7	2206.6	2139.6	2047.9	1981.0	1854.1	1861.1
45°	6224.9	6126.2	4187.5	2527.3	2136.1	2002.1	1899.9	1832.9	1688.4	1529.8	1529.8
47.5°	7074.4	6753.6	4191.1	2227.7	1910.5	1801.2	1730.7	1614.4	1459.3	1332.4	1318.3
50°	8325.7	7592.6	4071.2	1991.6	1727.2	1653.2	1579.1	1445.2	1297.2	1209.0	1219.6
52.5°	9940.1	8843.9	4067.7	1780.1	1582.7	1529.8	1448.7	1328.9	1219.6	1163.2	1142.1
55°	11864.7	10500.6	4194.6	1607.3	1434.6	1406.4	1371.2	1272.5	1166.7	1117.4	1113.9
57.5°	13835.1	12118.5	4399.0	1484.0	1307.7	1328.9	1304.2	1226.7	1142.1	1085.7	1078.6
60°	15587.0	13401.6	3986.6	1335.9	1194.9	1240.8	1276.0	1209.0	1163.2	1159.7	1135.0
62.5°	16908.8	13951.4	3031.4	1223.1	1135.0	1219.6	1314.8	1357.1	1335.9	1364.1	1367.6
65°	17391.7	13620.1	2086.7	1163.2	1089.2	1269.0	1480.4	1466.3	1343.0	1290.1	1318.3
67.5°	16714.9	12277.1	1547.4	1092.7	1057.5	1371.2	1575.6	1399.4	1212.6	1205.5	1184.4
70°	14374.4	10405.4	1261.9	1018.7	1004.6	1314.8	1533.3	1297.2	1142.1	1096.2	1075.1
72°	11452.3	8103.7	1106.8	965.8	920.0	1173.8	1434.6	1216.1	1082.1	1025.7	1001.1
72.5°	10454.8	7511.5	1085.7	941.1	902.4	1142.1	1385.3	1191.4	1068.0	1018.7	979.9
75°	5735.0	3845.6	955.2	863.6	761.4	987.0	1283.1	1117.4	1008.1	937.6	930.6
77.5°	2132.5	1491.0	824.8	764.9	659.2	853.0	1166.7	1061.0	916.5	828.3	810.7
80°	817.8	786.0	673.2	645.1	553.4	747.3	1075.1	951.7	779.0	690.9	662.7
82.5°	497.0	458.2	511.1	504.1	423.0	680.3	1011.6	891.8	690.9	560.5	542.8
85°	271.4	271.4	356.0	341.9	296.1	542.8	764.9	592.2	437.1	359.5	366.6
87.5°	119.8	141.0	190.3	179.8	162.1	306.7	373.6	313.7	218.5	148.0	158.6
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)