

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: P478687

Luminaire Tested: **IFLD-M-SA4E-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

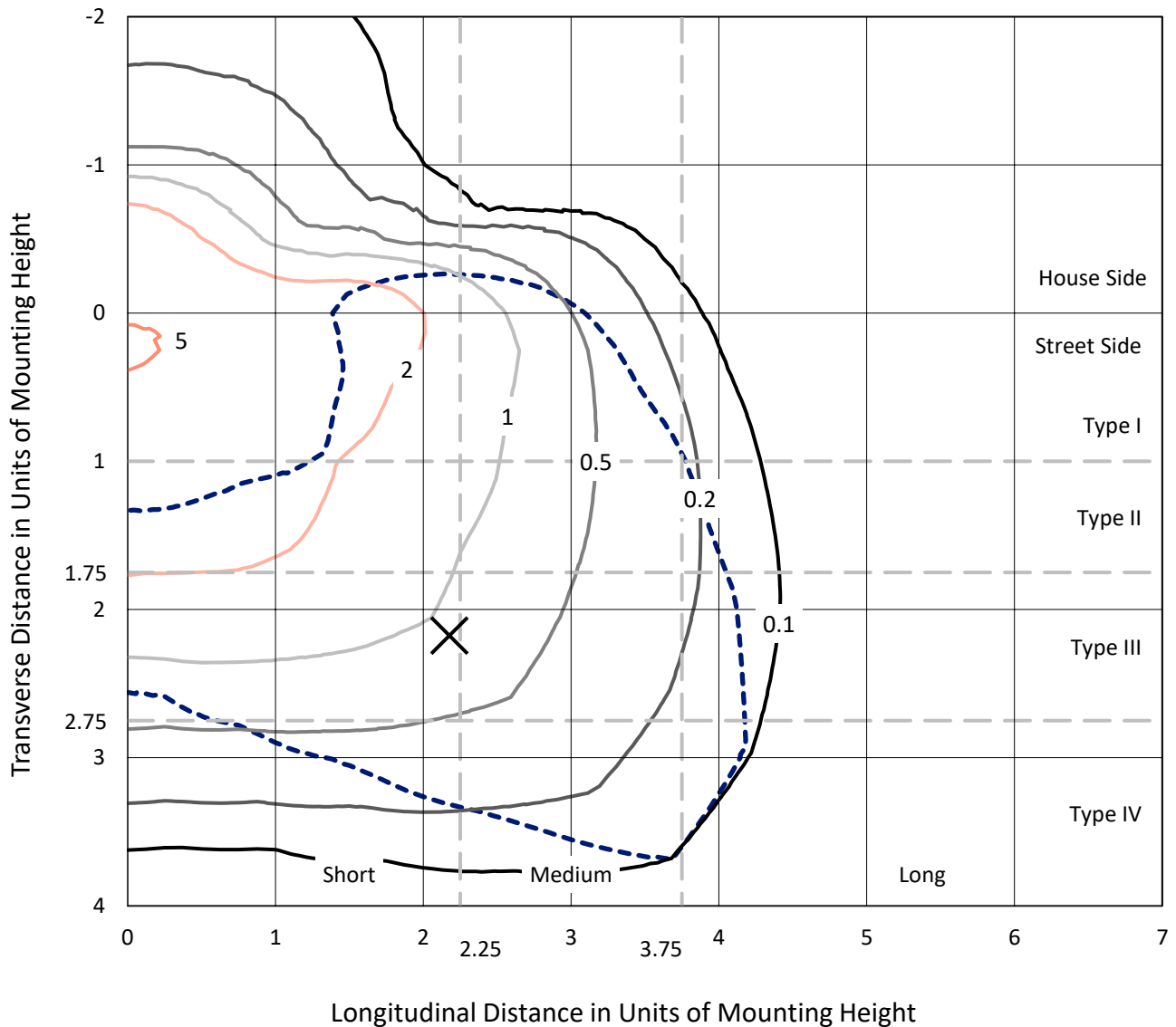
Lumens per Lamp: N/A
Luminaire Lumens: 26900.9 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

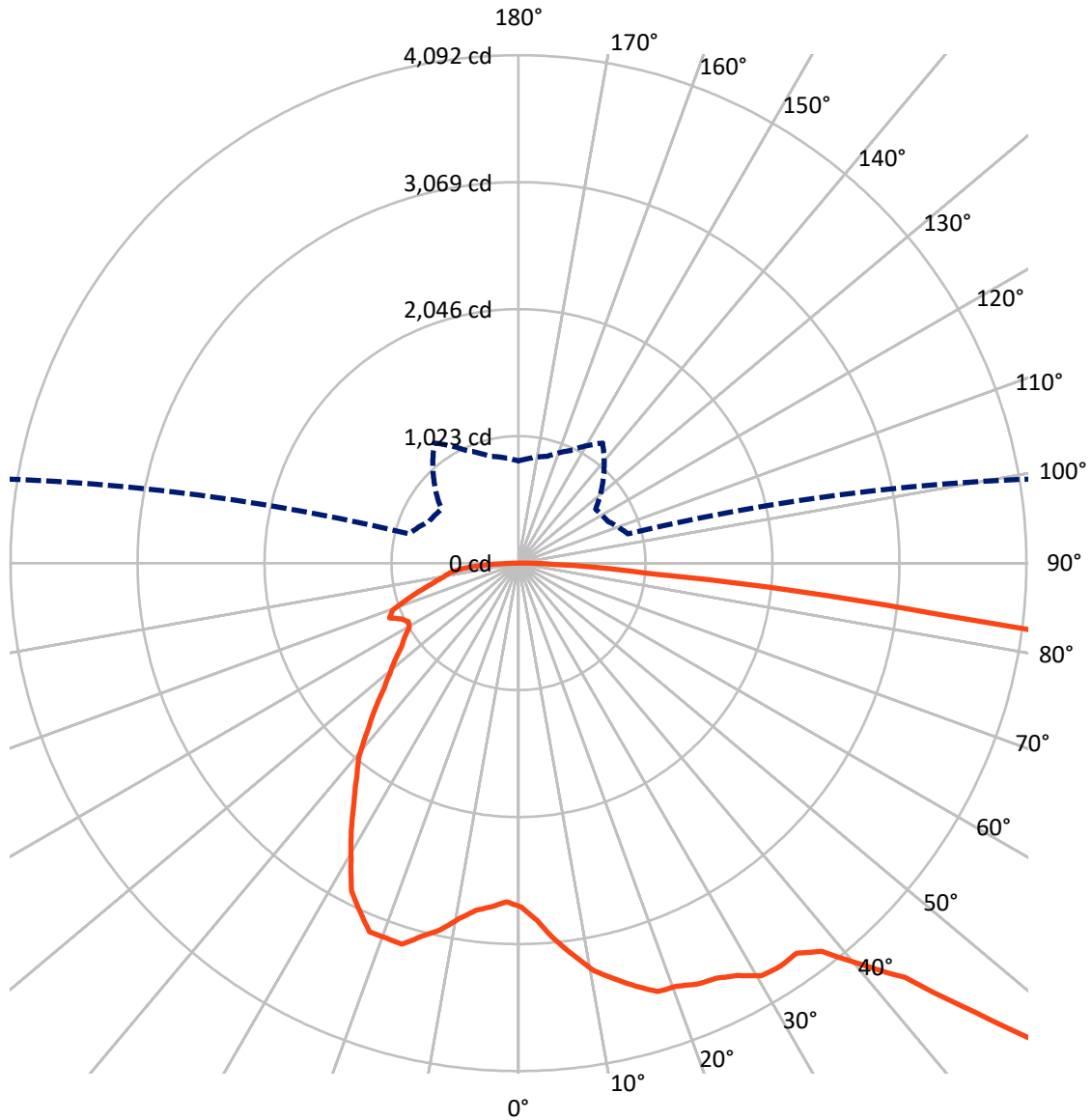
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5988.3	0.0	5988.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20912.6	0.0	20912.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	26900.9	0.0	26900.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.1
10°-20°	943.2	3.5
20°-30°	1592.7	5.9
30°-40°	2204.1	8.2
40°-50°	3152.7	11.7
50°-60°	5085.0	18.9
60°-70°	7499.6	27.9
70°-80°	5446.0	20.2
80°-90°	694.2	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°	26900.9	100.0
0°-180°	26900.9	100.0



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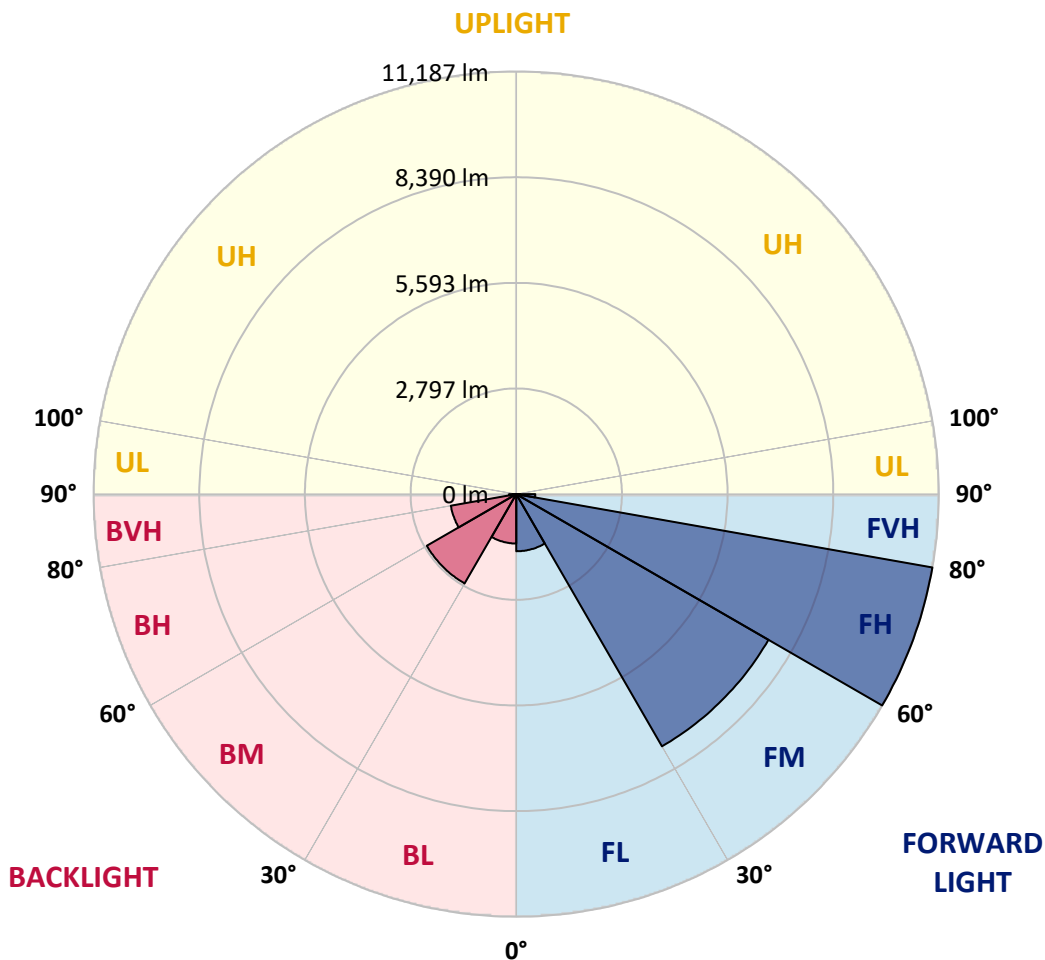
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.8	5.6			
FM (30°-60°)	7708.9	28.7			
FH (60°-80°)	11186.6	41.6			G4/12000
FVH (80°-90°)	505.3	1.9			G4/750
BL (0°-30°)	1307.5	4.9	B3/2500		
BM (30°-60°)	2732.9	10.2	B3/5000		
BH (60°-80°)	1759.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.9	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2918.2	2935.7	2918.2	2915.3	2886.3	2866.0	2883.4	2857.3	2828.3	2816.7	2790.6
5°	3185.1	3188.0	3156.1	3159.0	3098.1	3034.3	3045.9	2967.6	2883.4	2851.5	2799.3
7.5°	3457.8	3425.9	3379.5	3365.0	3269.2	3199.6	3190.9	3121.3	2990.8	2918.2	2845.7
10°	3634.8	3646.4	3570.9	3507.1	3425.9	3341.8	3338.9	3208.3	3132.9	3025.6	2932.8
12.5°	3791.4	3794.3	3730.5	3629.0	3527.4	3423.0	3437.5	3379.5	3251.8	3150.3	3057.5
15°	3913.2	3895.8	3826.2	3733.4	3626.1	3544.8	3536.1	3486.8	3379.5	3295.4	3141.6
17.5°	3948.0	3939.3	3869.7	3771.1	3666.7	3605.7	3629.0	3547.7	3504.2	3428.8	3280.9
20°	3881.3	3861.0	3849.4	3739.2	3663.8	3658.0	3637.7	3655.1	3582.5	3512.9	3405.6
22.5°	3759.5	3750.8	3745.0	3658.0	3623.2	3649.3	3684.1	3710.2	3698.6	3631.9	3510.0
25°	3634.8	3675.4	3637.7	3597.0	3646.4	3713.1	3704.4	3788.5	3788.5	3768.2	3666.7
27.5°	3721.8	3695.7	3666.7	3646.4	3663.8	3768.2	3762.4	3863.9	3901.6	3863.9	3747.9
30°	3939.3	3913.2	3829.1	3739.2	3716.0	3829.1	3858.1	3948.0	3965.5	3872.6	3774.0
32.5°	4348.4	4333.9	4200.4	3936.4	3794.3	3858.1	3872.6	3974.2	3959.6	3901.6	3861.0
35°	4954.6	4905.3	4719.7	4272.9	3959.6	3895.8	3858.1	3939.3	3994.5	3965.5	3927.7
37.5°	5618.9	5563.8	5334.6	4769.0	4258.4	3997.4	3968.4	4035.1	4098.9	4084.4	4006.1
40°	6254.2	6254.2	6048.3	5389.8	4702.3	4243.9	4249.7	4174.3	4232.3	4206.2	4220.7
42.5°	6880.8	6857.6	6773.5	6117.9	5178.0	4655.9	4563.0	4374.5	4478.9	4470.2	4490.5
45°	7516.1	7498.7	7475.5	6796.7	5859.7	5212.8	5163.5	4824.1	4919.8	4879.2	4966.2
47.5°	8023.7	8044.0	8044.0	7553.8	6587.8	5955.4	5882.9	5346.3	5529.0	5549.3	5569.6
50°	8456.0	8464.7	8456.0	8276.1	7400.0	6805.4	6657.4	6112.1	6294.8	6454.4	6640.0
52.5°	9053.5	9065.1	9024.5	8954.9	8502.4	7698.8	7533.5	6927.2	7301.4	7469.7	7803.3
55°	9790.3	9703.3	9627.9	9680.1	9561.2	8682.2	8511.1	7768.5	8331.2	8554.6	9221.8
57.5°	9926.7	10002.1	10193.6	10608.4	10779.5	9639.5	9540.9	8801.2	9494.5	9688.8	10802.7
60°	10408.2	10283.5	10753.4	11652.7	11844.1	10886.9	10785.3	9932.5	10651.9	10855.0	12261.9
62.5°	10724.4	10718.6	11414.8	12482.3	12917.5	12180.6	11974.7	11403.2	11902.2	12099.4	13851.5
65°	10631.6	10715.7	11951.5	12969.7	13813.8	13651.4	13532.4	12668.0	13326.5	13309.1	14887.1
67.5°	9784.5	10022.4	11612.1	13320.7	15148.2	15444.1	15406.4	14446.2	14483.9	14115.5	15348.4
70°	8609.7	8528.5	10176.2	12955.2	15815.4	17570.4	17561.7	15769.0	15525.3	14292.4	14025.6
72°	6613.9	6524.0	7878.7	11124.7	15464.4	18420.3	18681.4	16685.6	15513.7	13558.5	11586.0
72.5°	6004.7	5926.4	7275.3	10472.0	15075.7	18640.8	18519.0	16720.5	15391.9	13213.3	10823.0
75°	2764.5	2674.6	3634.8	6410.9	11760.0	16517.4	16932.2	15647.1	13442.5	10518.5	6483.4
77.5°	823.8	797.7	1169.0	2587.6	6834.4	12169.0	12328.6	11806.4	9384.2	5761.1	2404.8
80°	458.3	461.2	603.4	968.9	3005.3	7034.5	7608.9	7292.7	4603.6	1903.0	800.6
82.5°	255.3	269.8	377.1	574.4	1380.8	3228.6	3475.2	3350.5	1665.1	893.5	438.0
85°	133.4	139.2	197.3	307.5	783.2	1021.1	1050.1	1125.5	864.5	609.2	235.0
87.5°	52.2	52.2	72.5	127.6	290.1	316.2	284.3	345.2	496.0	394.5	116.0
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°	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2813.8	2790.6	2787.7	2750.0	2761.6	2729.7	2732.6	2726.8	2729.7	2723.9	2709.4
5°	2799.3	2781.9	2732.6	2764.5	2735.5	2776.1	2808.0	2796.4	2805.1	2802.2	2805.1
7.5°	2819.6	2796.4	2790.6	2773.2	2799.3	2816.7	2842.8	2915.3	2909.5	2918.2	2935.7
10°	2880.5	2854.4	2837.0	2863.1	2848.6	2903.7	2932.8	2970.5	3037.2	3040.1	3005.3
12.5°	2999.5	2982.1	2947.3	2953.1	3002.4	3019.8	3037.2	3060.4	3103.9	3095.2	3127.1
15°	3135.8	3098.1	3077.8	3072.0	3083.6	3103.9	3101.0	3124.2	3147.4	3167.7	3159.0
17.5°	3234.4	3185.1	3190.9	3219.9	3217.0	3211.2	3173.5	3161.9	3173.5	3185.1	3179.3
20°	3336.0	3341.8	3298.3	3272.2	3260.5	3202.5	3173.5	3138.7	3103.9	3121.3	3147.4
22.5°	3463.6	3437.5	3373.7	3295.4	3237.3	3202.5	3112.6	3051.7	3051.7	3069.1	3060.4
25°	3608.6	3553.5	3443.3	3301.2	3228.6	3080.7	3016.9	3008.2	2985.0	3011.1	3022.7
27.5°	3721.8	3672.5	3521.6	3280.9	3080.7	2961.8	2924.0	2912.4	2950.2	2953.1	2999.5
30°	3768.2	3753.7	3533.2	3228.6	2929.9	2738.4	2715.2	2767.4	2808.0	2868.9	2871.8
32.5°	3829.1	3834.9	3550.6	3106.8	2732.6	2541.1	2506.3	2570.1	2686.2	2735.5	2773.2
35°	3930.6	3959.6	3536.1	2956.0	2523.7	2341.0	2335.2	2352.6	2465.7	2552.7	2602.1
37.5°	4107.6	4101.8	3533.2	2776.1	2358.4	2166.9	2120.5	2126.3	2201.7	2274.3	2265.6
40°	4345.5	4322.3	3524.5	2541.1	2143.7	2019.0	1940.7	1911.7	1905.9	1885.5	1891.3
42.5°	4670.4	4623.9	3521.6	2303.3	1949.4	1815.9	1760.8	1685.4	1630.3	1525.8	1531.6
45°	5122.9	5041.7	3446.2	2079.9	1757.9	1647.7	1563.6	1508.4	1389.5	1259.0	1259.0
47.5°	5822.0	5558.0	3449.1	1833.3	1572.3	1482.3	1424.3	1328.6	1200.9	1096.5	1084.9
50°	6851.8	6248.4	3350.5	1639.0	1421.4	1360.5	1299.6	1189.3	1067.5	995.0	1003.7
52.5°	8180.4	7278.2	3347.6	1464.9	1302.5	1259.0	1192.2	1093.6	1003.7	957.3	939.9
55°	9764.2	8641.6	3452.0	1322.8	1180.6	1157.4	1128.4	1047.2	960.2	919.6	916.7
57.5°	11385.8	9973.1	3620.3	1221.3	1076.2	1093.6	1073.3	1009.5	939.9	893.5	887.7
60°	12827.5	11029.0	3280.9	1099.4	983.4	1021.1	1050.1	995.0	957.3	954.4	934.1
62.5°	13915.3	11481.5	2494.7	1006.6	934.1	1003.7	1082.0	1116.8	1099.4	1122.6	1125.5
65°	14312.8	11208.9	1717.3	957.3	896.4	1044.3	1218.4	1206.8	1105.2	1061.7	1084.9
67.5°	13755.8	10103.6	1273.5	899.3	870.3	1128.4	1296.7	1151.6	997.9	992.1	974.7
70°	11829.6	8563.3	1038.5	838.3	826.7	1082.0	1261.9	1067.5	939.9	902.2	884.8
72°	9424.8	6669.0	910.9	794.8	757.1	966.0	1180.6	1000.8	890.6	844.1	823.8
72.5°	8603.9	6181.7	893.5	774.5	742.6	939.9	1140.0	980.5	879.0	838.3	806.4
75°	4719.7	3164.8	786.1	710.7	626.6	812.2	1055.9	919.6	829.6	771.6	765.8
77.5°	1755.0	1227.1	678.8	629.5	542.5	702.0	960.2	873.2	754.2	681.7	667.2
80°	673.0	646.9	554.1	530.9	455.4	615.0	884.8	783.2	641.1	568.6	545.4
82.5°	409.0	377.1	420.6	414.8	348.1	559.9	832.5	733.9	568.6	461.2	446.7
85°	223.4	223.4	293.0	281.4	243.7	446.7	629.5	487.3	359.7	295.9	301.7
87.5°	98.6	116.0	156.6	147.9	133.4	252.4	307.5	258.2	179.9	121.8	130.5
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)