

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: P478689

Luminaire Tested: **IFLD-L-SA7B-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

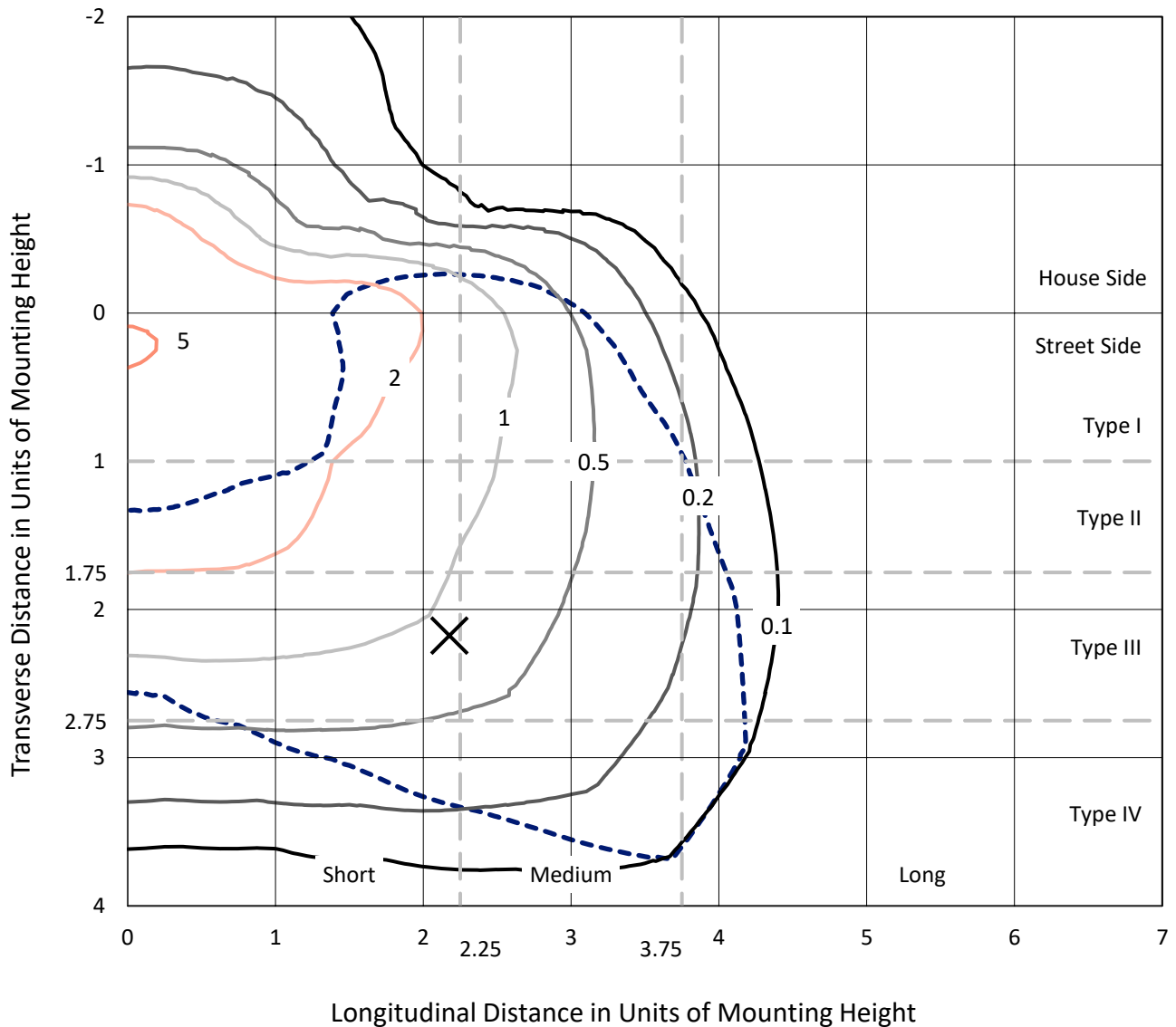
Lumens per Lamp: N/A
Luminaire Lumens: 26460.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

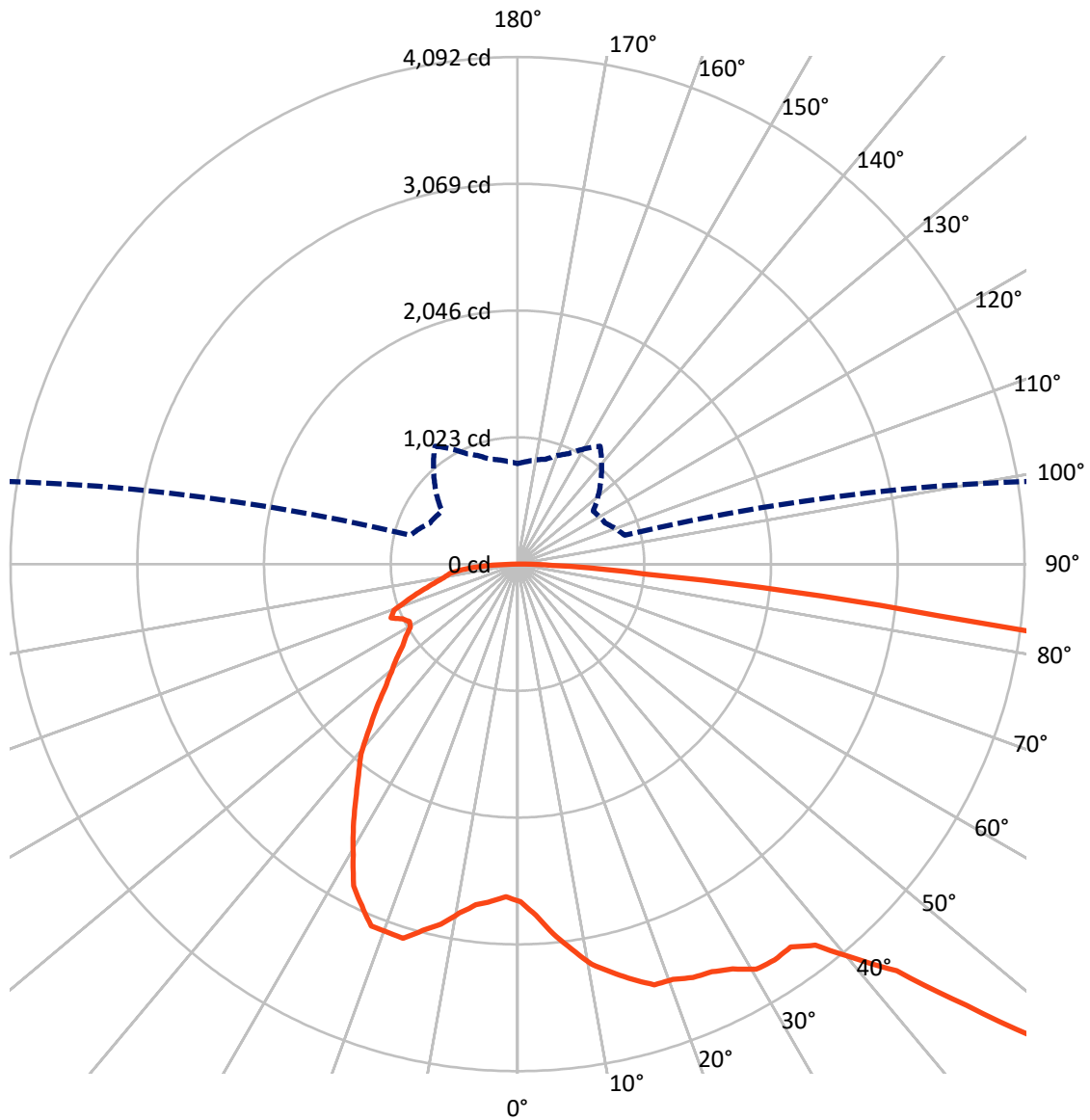
× Max cd
 - - - 1/2 Max cd



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	5890.3	0.0	5890.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20570.3	0.0	20570.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	26460.6	0.0	26460.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.1
10°-20°	927.7	3.5
20°-30°	1566.7	5.9
30°-40°	2168.0	8.2
40°-50°	3101.1	11.7
50°-60°	5001.7	18.9
60°-70°	7376.8	27.9
70°-80°	5356.9	20.2
80°-90°	682.9	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°	26460.6	100.0
0°-180°	26460.6	100.0

Coefficient of Utilization



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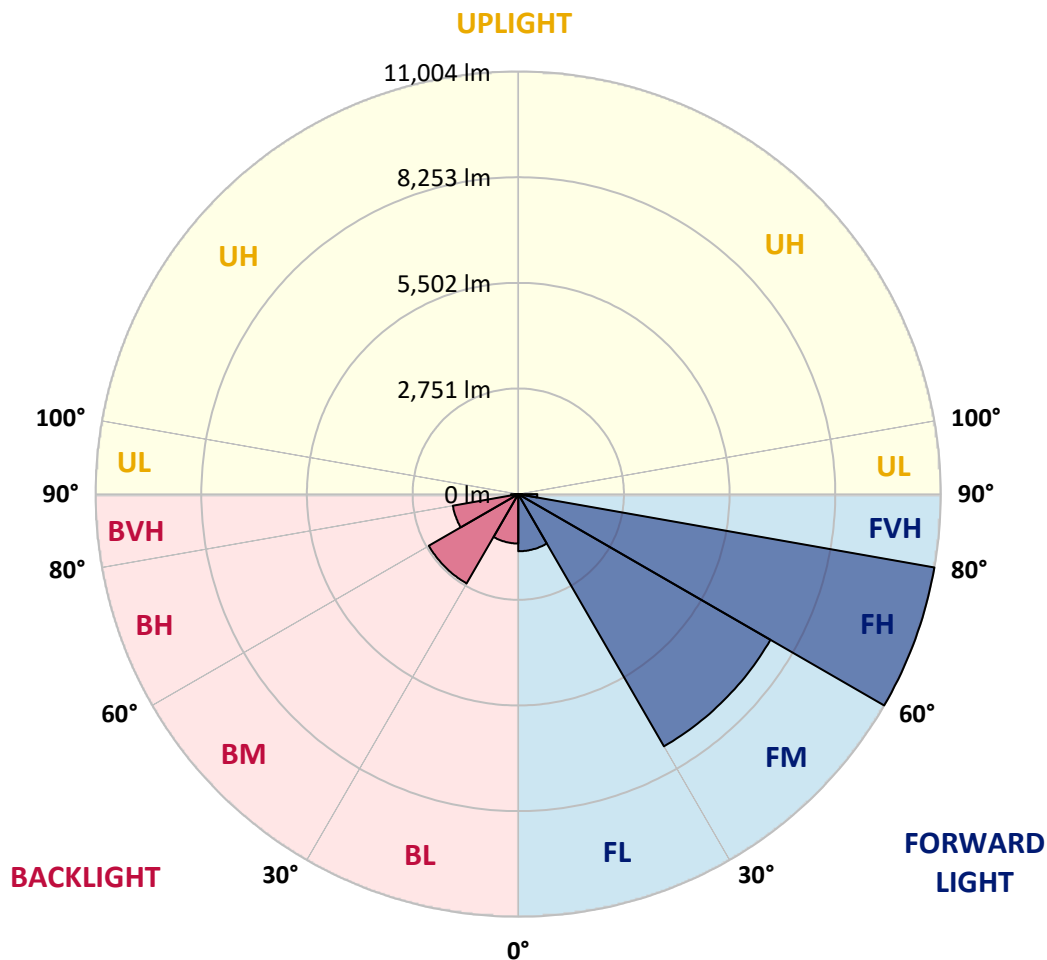
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.1	5.6			
FM (30°-60°)	7582.7	28.7			
FH (60°-80°)	11003.5	41.6			G4/12000
FVH (80°-90°)	497.0	1.9			G3/500
BL (0°-30°)	1286.1	4.9	B3/2500		
BM (30°-60°)	2688.2	10.2	B3/5000		
BH (60°-80°)	1730.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.8	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°	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0
2.5°	2870.5	2887.6	2870.5	2867.6	2839.1	2819.1	2836.2	2810.6	2782.0	2770.6	2744.9
5°	3133.0	3135.9	3104.5	3107.3	3047.4	2984.6	2996.0	2919.0	2836.2	2804.9	2753.5
7.5°	3401.2	3369.8	3324.2	3309.9	3215.7	3147.3	3138.7	3070.2	2941.8	2870.5	2799.2
10°	3575.3	3586.7	3512.5	3449.7	3369.8	3287.1	3284.2	3155.8	3081.6	2976.1	2884.8
12.5°	3729.4	3732.2	3669.4	3569.6	3469.7	3367.0	3381.2	3324.2	3198.6	3098.8	3007.5
15°	3849.2	3832.1	3763.6	3672.3	3566.7	3486.8	3478.3	3429.7	3324.2	3241.4	3090.2
17.5°	3883.4	3874.9	3806.4	3709.4	3606.7	3546.7	3569.6	3489.7	3446.9	3372.7	3227.2
20°	3817.8	3797.8	3786.4	3678.0	3603.8	3598.1	3578.1	3595.2	3523.9	3455.4	3349.9
22.5°	3698.0	3689.4	3683.7	3598.1	3563.9	3589.5	3623.8	3649.5	3638.0	3572.4	3452.6
25°	3575.3	3615.2	3578.1	3538.2	3586.7	3652.3	3643.8	3726.5	3726.5	3706.5	3606.7
27.5°	3660.9	3635.2	3606.7	3586.7	3603.8	3706.5	3700.8	3800.7	3837.8	3800.7	3686.6
30°	3874.9	3849.2	3766.4	3678.0	3655.2	3766.4	3795.0	3883.4	3900.6	3809.2	3712.2
32.5°	4277.2	4262.9	4131.7	3872.0	3732.2	3795.0	3809.2	3909.1	3894.8	3837.8	3797.8
35°	4873.6	4825.0	4642.4	4203.0	3894.8	3832.1	3795.0	3874.9	3929.1	3900.6	3863.5
37.5°	5527.0	5472.8	5247.3	4690.9	4188.7	3931.9	3903.4	3969.0	4031.8	4017.5	3940.5
40°	6151.9	6151.9	5949.3	5301.6	4625.3	4174.5	4180.2	4106.0	4163.1	4137.4	4151.7
42.5°	6768.2	6745.4	6662.6	6017.8	5093.3	4579.7	4488.3	4302.9	4405.6	4397.0	4417.0
45°	7393.1	7376.0	7353.1	6685.4	5763.8	5127.5	5079.0	4745.2	4839.3	4799.4	4885.0
47.5°	7892.4	7912.4	7912.4	7430.2	6480.0	5858.0	5786.6	5258.8	5438.5	5458.5	5478.5
50°	8317.6	8326.1	8317.6	8140.7	7278.9	6694.0	6548.5	6012.0	6191.8	6348.7	6531.4
52.5°	8905.4	8916.8	8876.8	8808.3	8363.2	7572.8	7410.2	6813.8	7181.9	7347.4	7675.6
55°	9630.1	9544.5	9470.3	9521.7	9404.7	8540.1	8371.8	7641.3	8194.9	8414.6	9070.9
57.5°	9764.2	9838.4	10026.7	10434.8	10603.1	9481.7	9384.7	8657.1	9339.1	9530.2	10625.9
60°	10237.9	10115.2	10577.4	11462.0	11650.3	10708.7	10608.8	9769.9	10477.6	10677.3	12061.2
62.5°	10548.9	10543.2	11228.0	12278.0	12706.0	11981.3	11778.7	11216.6	11707.4	11901.4	13624.8
65°	10457.6	10540.3	11755.9	12757.4	13587.7	13428.0	13311.0	12460.7	13108.4	13091.3	14643.5
67.5°	9624.4	9858.4	11422.0	13102.7	14900.3	15191.3	15154.2	14209.8	14246.9	13884.5	15097.2
70°	8468.8	8388.9	10009.6	12743.1	15556.6	17282.9	17274.3	15510.9	15271.2	14058.5	13796.0
72°	6505.7	6417.2	7749.7	10942.7	15211.3	18118.9	18375.7	16412.6	15259.8	13336.6	11396.4
72.5°	5906.5	5829.4	7156.2	10300.7	14829.0	18335.7	18215.9	16446.8	15140.0	12997.1	10645.9
75°	2719.3	2630.8	3575.3	6305.9	11567.6	16247.1	16655.1	15391.1	13222.5	10346.3	6377.3
77.5°	810.4	784.7	1149.9	2545.2	6722.5	11969.9	12126.8	11613.2	9230.6	5666.8	2365.4
80°	450.8	453.7	593.5	953.0	2956.1	6919.4	7484.4	7173.4	4528.3	1871.8	787.5
82.5°	251.1	265.4	370.9	565.0	1358.2	3175.8	3418.3	3295.6	1637.8	878.8	430.9
85°	131.3	137.0	194.0	302.5	770.4	1004.4	1032.9	1107.1	850.3	599.2	231.1
87.5°	51.4	51.4	71.3	125.5	285.3	311.0	279.6	339.6	487.9	388.1	114.1
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°	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0
2.5°	2767.8	2744.9	2742.1	2705.0	2716.4	2685.0	2687.9	2682.2	2685.0	2679.3	2665.0
5°	2753.5	2736.4	2687.9	2719.3	2690.7	2730.7	2762.1	2750.6	2759.2	2756.4	2759.2
7.5°	2773.5	2750.6	2744.9	2727.8	2753.5	2770.6	2796.3	2867.6	2861.9	2870.5	2887.6
10°	2833.4	2807.7	2790.6	2816.3	2802.0	2856.2	2884.8	2921.8	2987.5	2990.3	2956.1
12.5°	2950.4	2933.3	2899.0	2904.7	2953.2	2970.4	2987.5	3010.3	3053.1	3044.5	3075.9
15°	3084.5	3047.4	3027.4	3021.7	3033.1	3053.1	3050.3	3073.1	3095.9	3115.9	3107.3
17.5°	3181.5	3133.0	3138.7	3167.2	3164.4	3158.7	3121.6	3110.2	3121.6	3133.0	3127.3
20°	3281.4	3287.1	3244.3	3218.6	3207.2	3150.1	3121.6	3087.3	3053.1	3070.2	3095.9
22.5°	3406.9	3381.2	3318.5	3241.4	3184.4	3150.1	3061.7	3001.7	3001.7	3018.9	3010.3
25°	3549.6	3495.4	3386.9	3247.1	3175.8	3030.3	2967.5	2958.9	2936.1	2961.8	2973.2
27.5°	3660.9	3612.4	3464.0	3227.2	3030.3	2913.3	2876.2	2864.8	2901.9	2904.7	2950.4
30°	3706.5	3692.3	3475.4	3175.8	2881.9	2693.6	2670.8	2722.1	2762.1	2822.0	2824.8
32.5°	3766.4	3772.2	3492.5	3056.0	2687.9	2499.6	2465.3	2528.1	2642.2	2690.7	2727.8
35°	3866.3	3894.8	3478.3	2907.6	2482.4	2302.7	2297.0	2314.1	2425.4	2511.0	2559.5
37.5°	4040.4	4034.7	3475.4	2730.7	2319.8	2131.5	2085.8	2091.5	2165.7	2237.0	2228.5
40°	4274.3	4251.5	3466.8	2499.6	2108.6	1985.9	1908.9	1880.4	1874.7	1854.7	1860.4
42.5°	4593.9	4548.3	3464.0	2265.6	1917.5	1786.2	1732.0	1657.8	1603.6	1500.9	1506.6
45°	5039.0	4959.2	3389.8	2045.9	1729.1	1620.7	1538.0	1483.8	1366.8	1238.4	1238.4
47.5°	5726.7	5467.1	3392.7	1803.3	1546.5	1458.1	1401.0	1306.8	1181.3	1078.6	1067.2
50°	6739.7	6146.2	3295.6	1612.2	1398.2	1338.2	1278.3	1169.9	1050.0	978.7	987.3
52.5°	8046.5	7159.1	3292.8	1441.0	1281.2	1238.4	1172.7	1075.7	987.3	941.6	924.5
55°	9604.4	8500.2	3395.5	1301.1	1161.3	1138.5	1110.0	1030.1	944.5	904.5	901.7
57.5°	11199.5	9809.9	3561.0	1201.3	1058.6	1075.7	1055.7	993.0	924.5	878.8	873.1
60°	12617.6	10848.5	3227.2	1081.4	967.3	1004.4	1032.9	978.7	941.6	938.8	918.8
62.5°	13687.6	11293.6	2453.9	990.1	918.8	987.3	1064.3	1098.5	1081.4	1104.3	1107.1
65°	14078.5	11025.4	1689.2	941.6	881.7	1027.2	1198.4	1187.0	1087.1	1044.3	1067.2
67.5°	13530.7	9938.3	1252.6	884.5	856.0	1110.0	1275.5	1132.8	981.6	975.9	958.7
70°	11636.0	8423.1	1021.5	824.6	813.2	1064.3	1241.2	1050.0	924.5	887.4	870.3
72°	9270.6	6559.9	896.0	781.8	744.7	950.2	1161.3	984.4	876.0	830.3	810.4
72.5°	8463.1	6080.5	878.8	761.8	730.5	924.5	1121.4	964.4	864.6	824.6	793.2
75°	4642.4	3113.0	773.3	699.1	616.3	798.9	1038.6	904.5	816.1	759.0	753.3
77.5°	1726.3	1207.0	667.7	619.2	533.6	690.5	944.5	858.9	741.9	670.5	656.3
80°	662.0	636.3	545.0	522.2	448.0	604.9	870.3	770.4	630.6	559.3	536.4
82.5°	402.3	370.9	413.7	408.0	342.4	550.7	818.9	721.9	559.3	453.7	439.4
85°	219.7	219.7	288.2	276.8	239.7	439.4	619.2	479.4	353.8	291.0	296.8
87.5°	97.0	114.1	154.1	145.5	131.3	248.2	302.5	253.9	176.9	119.8	128.4
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)