

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: P478023

Luminaire Tested: **IFLD-M-SA4D-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478023
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

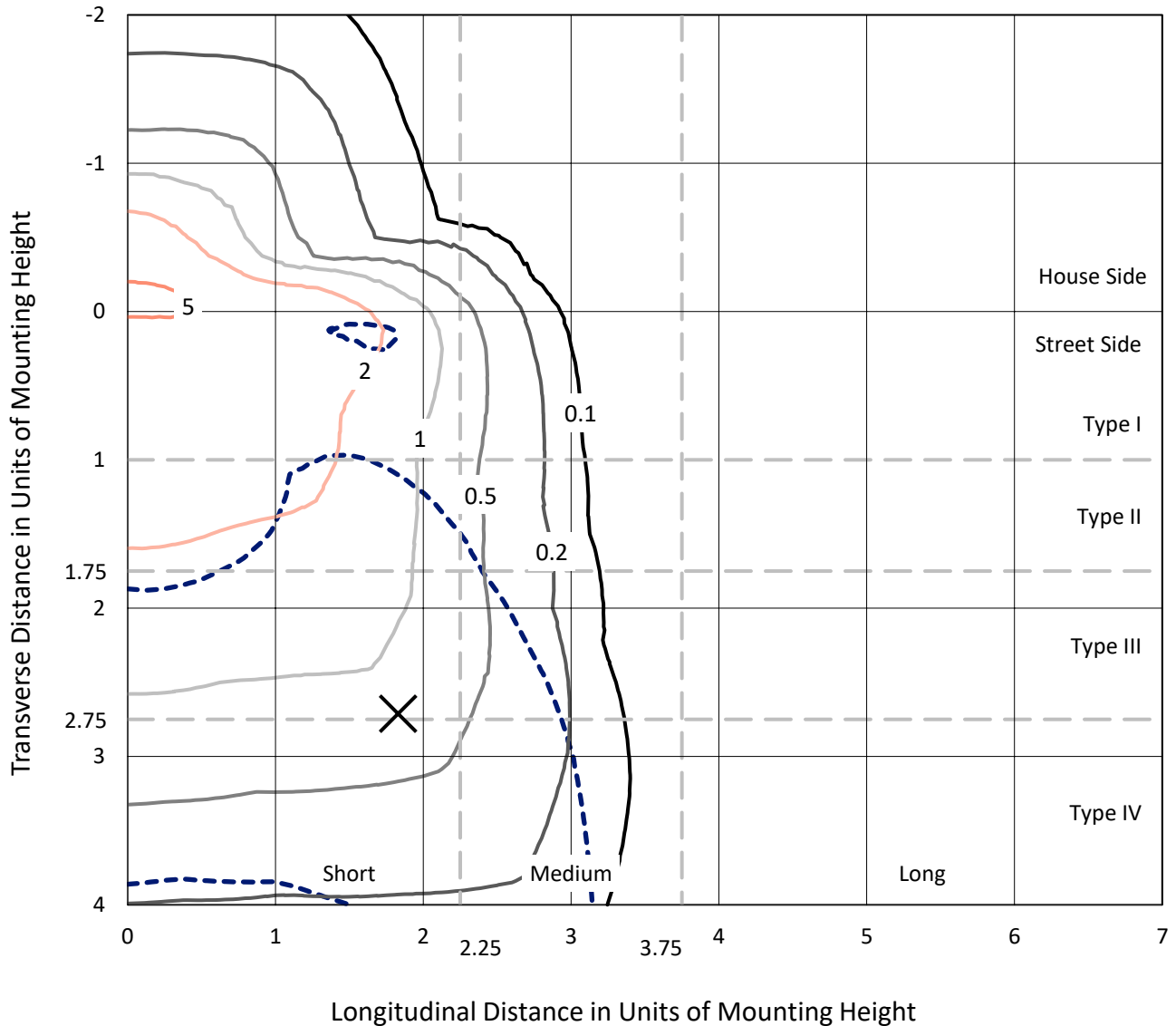
Lumens per Lamp: N/A
Luminaire Lumens: 23608.1 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

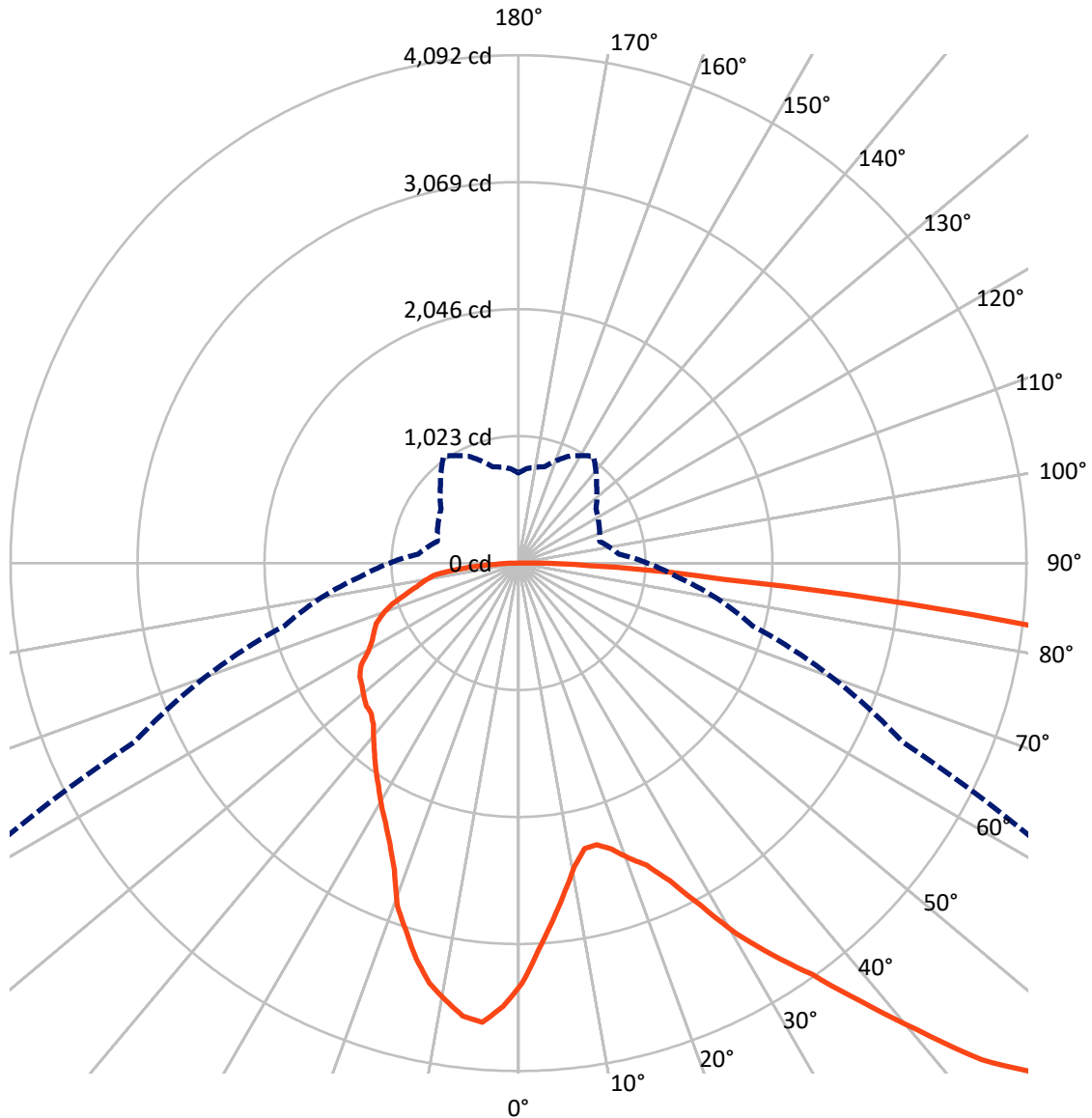
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5099.6	0.0	5099.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18508.5	0.0	18508.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	23608.1	0.0	23608.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	1.3
10°-20°	874.2	3.7
20°-30°	1438.8	6.1
30°-40°	2151.8	9.1
40°-50°	3189.9	13.5
50°-60°	4597.0	19.5
60°-70°	5866.4	24.8
70°-80°	4565.0	19.3
80°-90°	612.4	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°	23608.1	100.0
0°-180°	23608.1	100.0

Coefficient of Utilization



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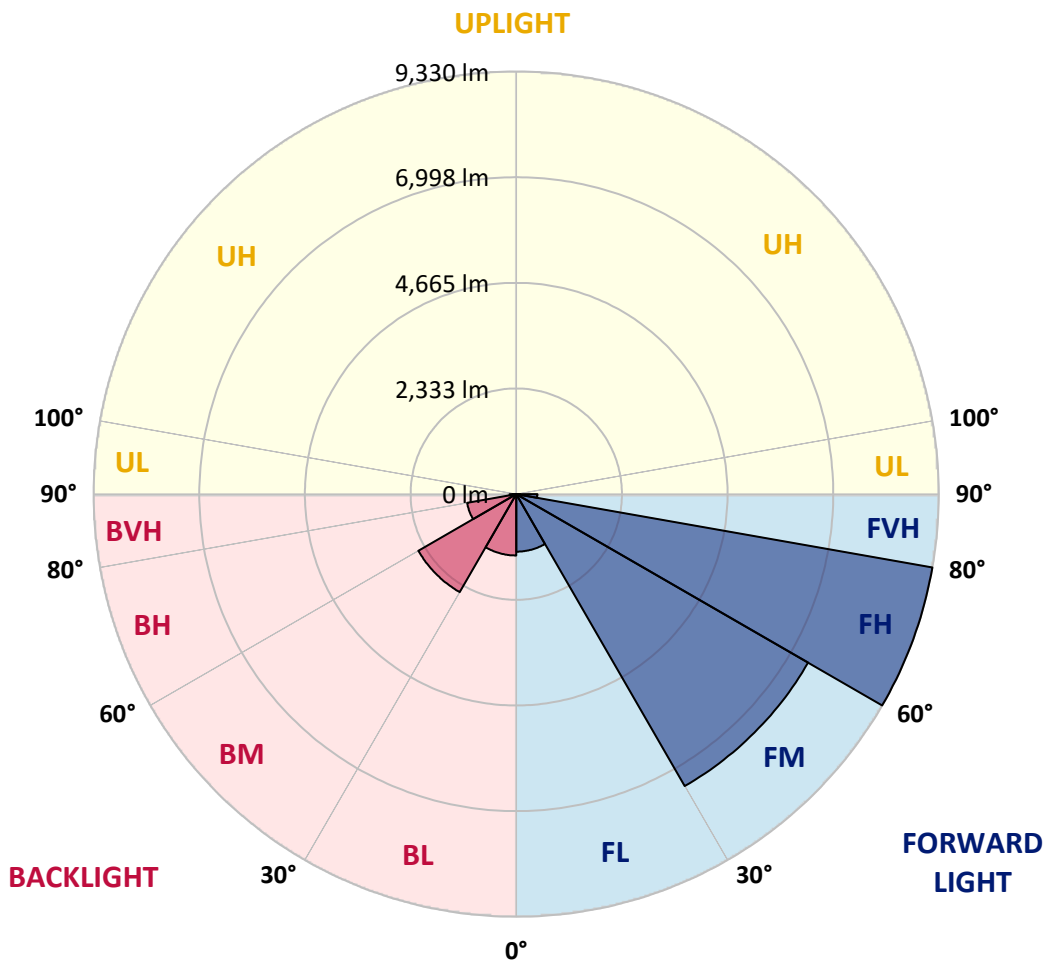
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.5	5.4			
FM (30°-60°)	7441.4	31.5			
FH (60°-80°)	9330.4	39.5			G4/12000
FVH (80°-90°)	466.2	2.0			G3/500
BL (0°-30°)	1354.9	5.7	B3/2500		
BM (30°-60°)	2497.3	10.6	B2/2500		
BH (60°-80°)	1101.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	146.3	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°	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6
2.5°	3032.7	3042.6	3075.1	3082.6	3117.5	3097.6	3140.0	3214.9	3257.3	3319.7	3394.6
5°	2793.0	2750.6	2770.6	2848.0	2887.9	2897.9	2942.8	3070.1	3150.0	3242.3	3382.1
7.5°	2511.0	2503.5	2543.4	2593.4	2673.2	2680.7	2780.6	2892.9	3057.6	3262.3	3427.0
10°	2318.8	2351.2	2373.7	2426.1	2481.0	2481.0	2608.3	2803.0	2990.2	3187.4	3437.0
12.5°	2308.8	2288.8	2293.8	2321.3	2361.2	2411.1	2531.0	2705.7	2942.8	3172.4	3479.4
15°	2341.3	2348.7	2303.8	2338.8	2353.7	2371.2	2503.5	2700.7	2912.8	3224.8	3551.8
17.5°	2513.5	2471.1	2401.2	2368.7	2421.1	2421.1	2511.0	2665.7	2917.8	3252.3	3656.7
20°	2648.3	2648.3	2533.5	2498.5	2535.9	2528.5	2590.9	2705.7	2942.8	3307.2	3774.0
22.5°	2875.4	2907.9	2718.2	2645.8	2643.3	2663.2	2718.2	2815.5	3012.7	3384.6	3886.3
25°	3202.4	3209.9	2990.2	2915.3	2835.5	2867.9	2877.9	2975.2	3075.1	3474.5	4013.6
27.5°	3566.8	3561.8	3359.6	3172.4	3120.0	3127.5	3072.6	3137.5	3167.4	3501.9	4195.8
30°	3971.2	3926.2	3774.0	3509.4	3467.0	3419.5	3299.7	3297.2	3359.6	3656.7	4447.9
32.5°	4235.7	4178.3	4073.5	3883.8	3766.5	3771.5	3581.8	3579.3	3524.4	3826.4	4667.5
35°	4495.3	4408.0	4380.5	4185.8	4068.5	4081.0	3928.7	3908.8	3808.9	4083.5	5029.5
37.5°	4807.3	4729.9	4772.4	4625.1	4480.3	4420.4	4350.6	4325.6	4195.8	4445.4	5523.7
40°	5151.8	5126.8	5099.4	5027.0	4939.6	4944.6	4869.7	4844.8	4652.6	4882.2	5997.9
42.5°	5616.0	5521.2	5378.9	5426.3	5471.3	5518.7	5493.7	5428.8	5229.1	5326.5	6527.1
45°	6047.8	5923.0	5661.0	5675.9	5860.6	5898.1	6200.1	6192.6	5790.8	5890.6	7128.6
47.5°	6339.9	6282.5	6125.2	6107.7	6372.3	6369.8	6914.0	6914.0	6382.3	6452.2	7775.1
50°	6774.2	6624.4	6557.0	6644.4	6779.2	6871.5	7642.8	7690.2	6963.9	7038.8	8621.2
52.5°	7283.4	7096.2	6926.4	7151.1	7390.7	7450.6	8364.1	8344.2	7410.7	7720.2	9612.1
55°	7705.2	7610.3	7493.0	7622.8	8014.7	8089.6	9088.0	8903.3	7857.4	8284.3	10088.9
57.5°	8196.9	8254.3	8279.3	8246.8	8713.6	8830.9	9914.2	9385.0	8241.8	8663.7	10368.4
60°	8938.2	8973.2	9005.6	9083.0	9577.2	9741.9	10568.1	9989.0	8483.9	8883.3	10390.9
62.5°	10066.4	9931.6	10004.0	10271.1	10668.0	10855.2	11531.6	10413.4	8668.7	9015.6	9657.1
65°	11356.9	11174.7	11099.8	11444.2	12472.6	12322.8	12734.7	10730.4	8401.6	8521.4	8189.4
67.5°	12664.8	12684.7	12492.5	13183.9	14444.4	14444.4	13852.9	10882.6	7677.7	6906.5	5743.3
70°	13703.1	13765.5	13870.3	15210.7	17207.5	17509.5	15238.2	10258.6	6202.6	4597.7	3140.0
72.5°	13688.1	13500.9	14037.6	16506.1	19718.5	19466.4	15527.7	8112.0	3871.3	2251.4	1440.2
73°	13381.1	13223.9	13810.4	16493.7	19820.8	19583.7	15315.5	7478.1	3414.5	1951.9	1280.5
75°	10927.5	10643.0	11641.4	14938.6	18338.2	18520.4	13011.7	4877.2	1872.0	1203.1	901.1
77.5°	4982.0	5106.8	6407.3	10021.5	14132.4	14347.1	8553.8	2109.1	1025.9	843.7	663.9
80°	1599.9	1679.8	2493.5	4982.0	8858.4	9245.2	3953.7	958.5	731.3	646.5	496.7
82.5°	611.5	609.0	1045.8	2071.7	4198.3	4445.4	1445.2	584.1	544.1	476.7	351.9
85°	214.7	224.6	394.4	818.7	1652.4	1729.7	501.7	324.5	376.9	319.5	202.2
87.5°	74.9	77.4	139.8	297.0	569.1	601.5	139.8	129.8	187.2	184.7	102.3
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°	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6	3384.6
2.5°	3419.5	3442.0	3449.5	3539.3	3539.3	3539.3	3574.3	3574.3	3564.3	3539.3	3599.3
5°	3434.5	3474.5	3551.8	3629.2	3649.2	3666.6	3714.1	3674.1	3689.1	3664.1	3686.6
7.5°	3476.9	3531.9	3676.6	3724.1	3691.6	3729.0	3679.1	3651.7	3624.2	3634.2	3599.3
10°	3549.3	3619.2	3686.6	3774.0	3711.6	3674.1	3571.8	3546.8	3459.5	3429.5	3457.0
12.5°	3639.2	3724.1	3838.9	3806.4	3686.6	3579.3	3469.5	3364.6	3312.2	3237.3	3257.3
15°	3729.0	3826.4	3843.9	3788.9	3639.2	3504.4	3304.7	3157.5	3105.0	3037.6	3072.6
17.5°	3826.4	3918.7	3888.8	3746.5	3544.3	3339.7	3112.5	2967.8	2857.9	2815.5	2815.5
20°	3971.2	4016.1	3968.7	3676.6	3429.5	3160.0	2940.3	2775.6	2665.7	2648.3	2620.8
22.5°	4083.5	4155.9	3943.7	3574.3	3262.3	2925.3	2673.2	2610.8	2578.4	2550.9	2516.0
25°	4228.2	4225.8	3898.8	3479.4	2975.2	2645.8	2493.5	2488.5	2473.5	2463.6	2511.0
27.5°	4365.5	4308.1	3846.4	3244.8	2678.2	2433.6	2351.2	2406.2	2428.6	2413.6	2433.6
30°	4582.7	4487.8	3771.5	2995.2	2416.1	2219.0	2233.9	2308.8	2346.3	2368.7	2338.8
32.5°	4812.3	4667.5	3616.7	2735.6	2184.0	2084.2	2119.1	2196.5	2241.4	2266.4	2293.8
35°	5144.3	4807.3	3459.5	2396.2	2016.8	2001.8	2021.8	2064.2	2129.1	2146.6	2154.1
37.5°	5553.6	5019.5	3247.3	2124.1	1887.0	1904.5	1924.4	1939.4	1941.9	1974.3	1961.9
40°	5963.0	5199.2	2937.8	1864.5	1752.2	1847.0	1837.1	1809.6	1787.1	1757.2	1749.7
42.5°	6322.4	5356.4	2593.4	1644.9	1632.4	1787.1	1754.7	1684.8	1632.4	1609.9	1572.5
45°	6726.8	5578.6	2246.4	1507.6	1540.0	1714.8	1704.8	1597.4	1530.1	1450.2	1440.2
47.5°	7250.9	5810.7	1914.4	1365.3	1452.7	1687.3	1692.3	1555.0	1457.7	1350.3	1335.4
50°	7922.3	6145.2	1662.3	1305.4	1400.3	1647.4	1654.9	1497.6	1370.3	1260.5	1250.5
52.5°	8566.3	6487.1	1452.7	1213.1	1365.3	1599.9	1617.4	1445.2	1297.9	1160.6	1168.1
55°	8890.8	6362.3	1273.0	1145.7	1285.4	1522.6	1587.5	1407.8	1188.1	1093.3	1090.8
57.5°	8963.2	6055.3	1130.7	1075.8	1218.1	1440.2	1537.5	1295.4	1138.2	1058.3	1048.3
60°	8726.1	5518.7	1018.4	1000.9	1133.2	1355.3	1422.7	1235.5	1088.3	1023.4	1008.4
62.5°	8142.0	4962.1	941.0	966.0	1060.8	1263.0	1350.3	1193.1	1040.8	995.9	963.5
65°	6676.8	4081.0	878.6	898.6	985.9	1173.1	1305.4	1145.7	998.4	956.0	953.5
67.5°	4625.1	2813.0	828.7	866.1	926.0	1108.2	1260.5	1093.3	943.5	928.5	908.5
70°	2368.7	1500.1	763.8	793.7	861.1	1025.9	1180.6	1038.3	886.1	883.6	858.6
72.5°	1200.6	878.6	688.9	733.8	781.3	918.5	1080.8	966.0	813.7	786.2	746.3
73°	1038.3	813.7	676.4	716.4	761.3	888.6	1050.8	948.5	803.7	763.8	726.3
75°	756.3	641.5	606.5	646.5	681.4	801.2	951.0	868.6	738.8	696.4	661.4
77.5°	566.6	494.2	504.2	549.1	579.1	691.4	846.1	786.2	668.9	611.5	596.5
80°	416.8	376.9	416.8	459.3	481.7	609.0	771.3	681.4	564.1	499.2	486.7
82.5°	297.0	274.6	322.0	349.4	359.4	504.2	693.9	544.1	426.8	342.0	314.5
85°	169.7	167.2	217.2	214.7	222.1	294.5	456.8	361.9	274.6	209.7	204.7
87.5°	74.9	82.4	109.8	87.4	92.4	139.8	194.7	134.8	112.3	62.4	47.4
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)