

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: P478030

Luminaire Tested: **IFLD-L-SA8A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478030
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

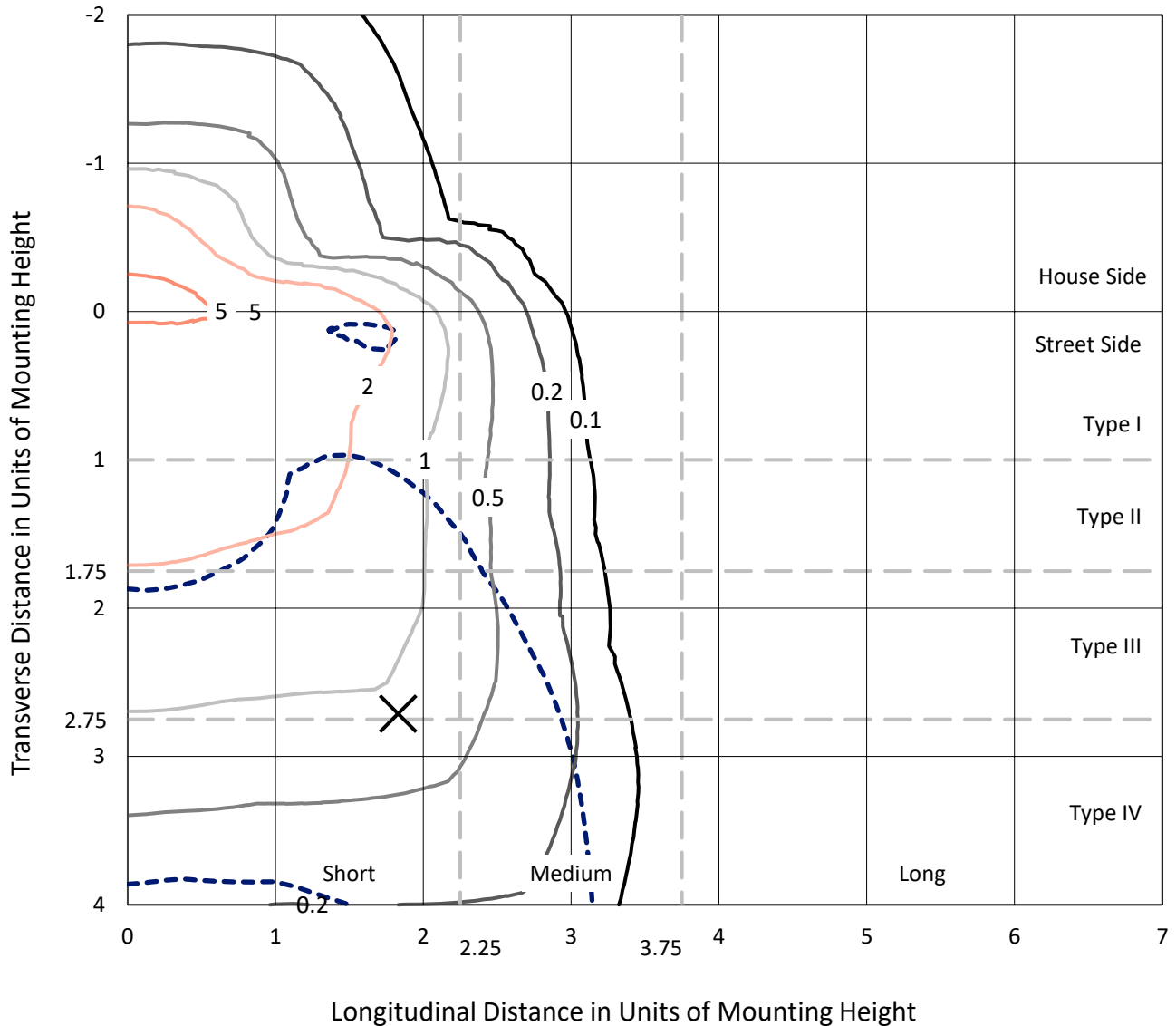
Lumens per Lamp: N/A
Luminaire Lumens: 25851.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

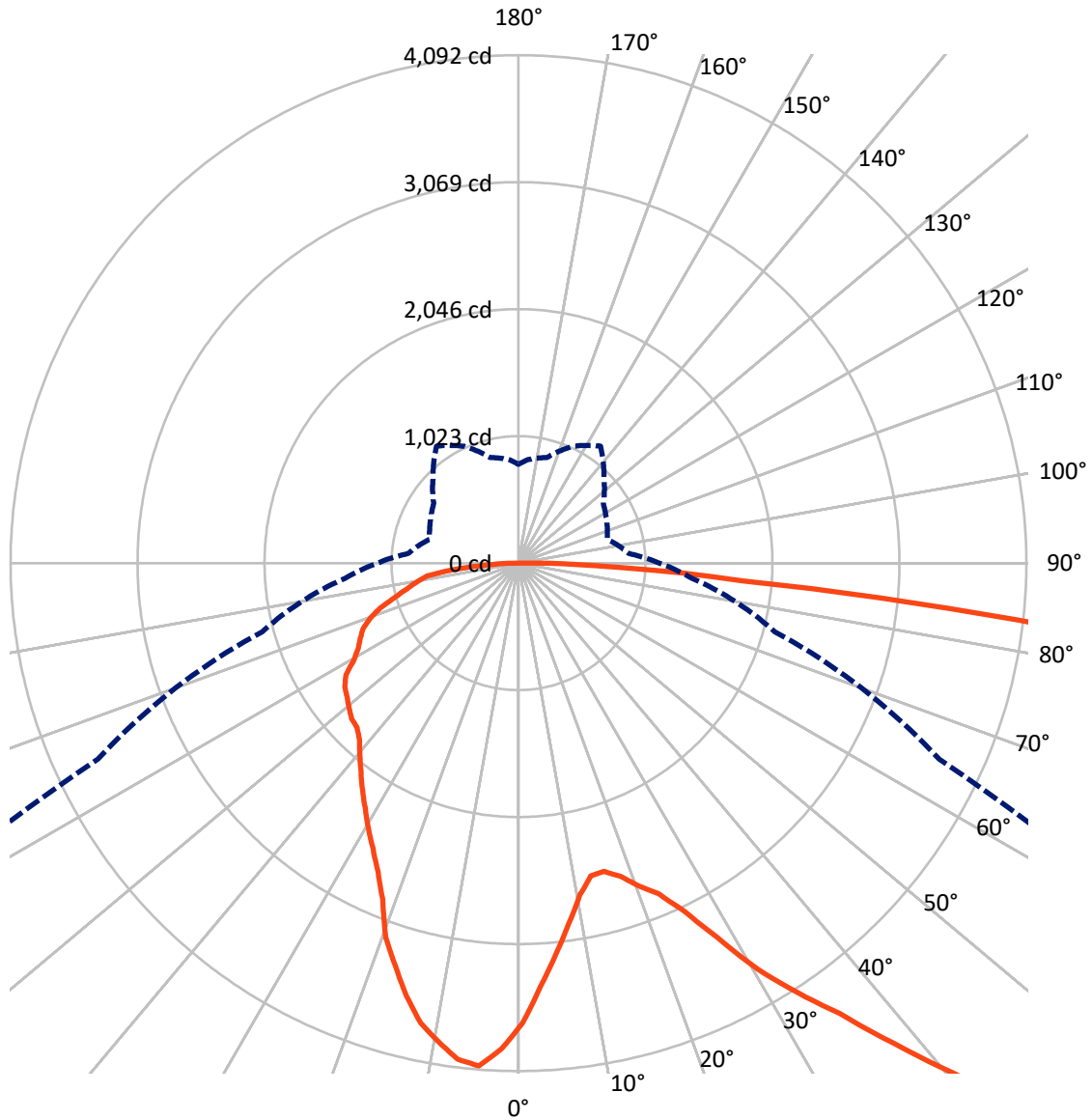
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	5584.2	0.0	5584.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20267.0	0.0	20267.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	25851.1	0.0	25851.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.3
10°-20°	957.3	3.7
20°-30°	1575.6	6.1
30°-40°	2356.2	9.1
40°-50°	3493.0	13.5
50°-60°	5033.8	19.5
60°-70°	6423.8	24.8
70°-80°	4998.8	19.3
80°-90°	670.6	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°	25851.1	100.0
0°-180°	25851.1	100.0

Coefficient of Utilization



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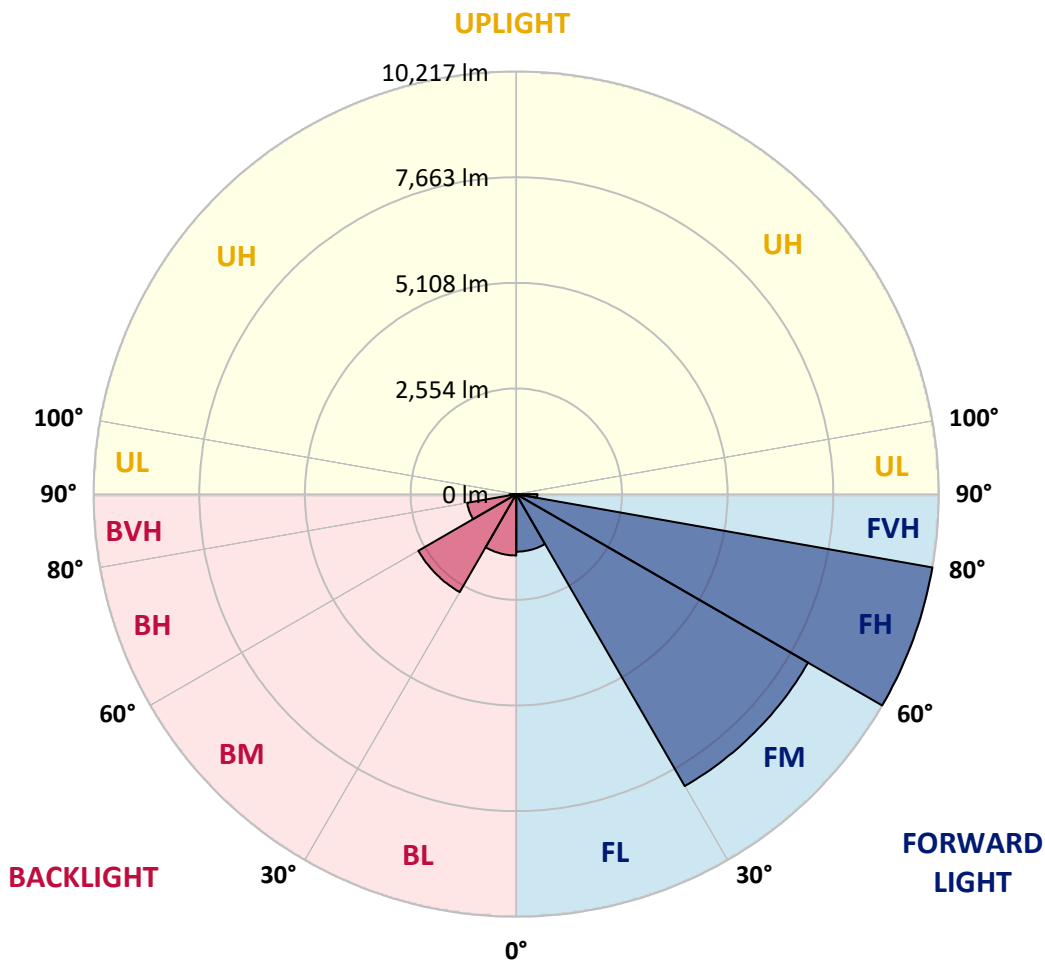
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.2	5.4			
FM (30°-60°)	8148.4	31.5			
FH (60°-80°)	10216.8	39.5			G4/12000
FVH (80°-90°)	510.5	2.0			G4/750
BL (0°-30°)	1483.7	5.7	B3/2500		
BM (30°-60°)	2734.6	10.6	B3/5000		
BH (60°-80°)	1205.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	160.2	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°	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2
2.5°	3320.8	3331.7	3367.3	3375.5	3413.7	3391.9	3438.3	3520.3	3566.8	3635.1	3717.1
5°	3058.4	3011.9	3033.8	3118.5	3162.3	3173.2	3222.4	3361.8	3449.2	3550.4	3703.4
7.5°	2749.6	2741.4	2785.1	2839.8	2927.2	2935.4	3044.7	3167.7	3348.1	3572.2	3752.6
10°	2539.1	2574.6	2599.2	2656.6	2716.8	2716.8	2856.2	3069.3	3274.3	3490.2	3763.6
12.5°	2528.2	2506.3	2511.8	2541.8	2585.6	2640.2	2771.4	2962.7	3222.4	3473.8	3810.0
15°	2563.7	2571.9	2522.7	2561.0	2577.4	2596.5	2741.4	2957.3	3189.6	3531.2	3889.3
17.5°	2752.3	2705.8	2629.3	2593.8	2651.2	2651.2	2749.6	2919.0	3195.1	3561.3	4004.1
20°	2899.9	2899.9	2774.2	2735.9	2776.9	2768.7	2837.0	2962.7	3222.4	3621.4	4132.5
22.5°	3148.6	3184.1	2976.4	2897.2	2894.4	2916.3	2976.4	3083.0	3298.9	3706.2	4255.5
25°	3506.6	3514.8	3274.3	3192.3	3104.9	3140.4	3151.3	3257.9	3367.3	3804.6	4394.9
27.5°	3905.7	3900.2	3678.8	3473.8	3416.5	3424.7	3364.5	3435.6	3468.4	3834.6	4594.4
30°	4348.5	4299.3	4132.5	3842.8	3796.4	3744.4	3613.2	3610.5	3678.8	4004.1	4870.5
32.5°	4638.2	4575.3	4460.5	4252.8	4124.3	4129.8	3922.1	3919.4	3859.2	4189.9	5111.0
35°	4922.4	4826.8	4796.7	4583.5	4455.1	4468.7	4302.0	4280.1	4170.8	4471.5	5507.3
37.5°	5264.1	5179.3	5225.8	5064.5	4906.0	4840.4	4763.9	4736.6	4594.4	4867.8	6048.5
40°	5641.2	5613.9	5583.8	5504.6	5408.9	5414.4	5332.4	5305.1	5094.6	5346.1	6567.8
42.5°	6149.6	6045.8	5890.0	5941.9	5991.1	6043.0	6015.7	5944.6	5726.0	5832.6	7147.2
45°	6622.5	6485.8	6198.8	6215.2	6417.5	6458.5	6789.2	6781.0	6340.9	6450.3	7805.9
47.5°	6942.2	6879.4	6707.2	6688.0	6977.8	6975.0	7570.9	7570.9	6988.7	7065.2	8513.8
50°	7417.8	7253.8	7180.0	7275.7	7423.3	7524.4	8368.9	8420.9	7625.5	7707.5	9440.3
52.5°	7975.4	7770.4	7584.5	7830.5	8092.9	8158.5	9158.8	9137.0	8114.8	8453.7	10525.4
55°	8437.3	8333.4	8205.0	8347.1	8776.2	8858.2	9951.4	9749.2	8604.0	9071.4	11047.4
57.5°	8975.7	9038.6	9065.9	9030.4	9541.5	9669.9	10856.1	10276.7	9024.9	9486.8	11353.6
60°	9787.5	9825.7	9861.2	9946.0	10487.1	10667.5	11572.2	10938.1	9290.0	9727.3	11378.2
62.5°	11022.8	10875.2	10954.5	11247.0	11681.5	11886.5	12627.2	11402.7	9492.3	9872.2	10574.6
65°	12435.9	12236.4	12154.4	12531.5	13657.6	13493.6	13944.6	11749.9	9199.8	9331.0	8967.5
67.5°	13868.1	13889.9	13679.5	14436.6	15816.8	15816.8	15169.0	11916.6	8407.2	7562.7	6289.0
70°	15005.1	15073.4	15188.2	16655.9	18842.4	19173.1	16686.0	11233.3	6791.9	5034.5	3438.3
72.5°	14988.7	14783.7	15371.3	18074.4	21592.0	21315.9	17003.0	8882.8	4239.1	2465.3	1577.0
73°	14652.5	14480.3	15122.6	18060.7	21704.0	21444.4	16770.7	8188.6	3739.0	2137.3	1402.1
75°	11965.8	11654.2	12747.5	16358.0	20080.5	20280.1	14248.0	5340.6	2049.9	1317.4	986.7
77.5°	5455.4	5592.0	7016.0	10973.6	15475.2	15710.2	9366.5	2309.5	1123.3	923.8	727.0
80°	1752.0	1839.4	2730.4	5455.4	9700.0	10123.6	4329.3	1049.5	800.8	707.9	543.9
82.5°	669.6	666.9	1145.2	2268.5	4597.2	4867.8	1582.5	639.6	595.8	522.0	385.4
85°	235.1	246.0	431.8	896.5	1809.4	1894.1	549.4	355.3	412.7	349.8	221.4
87.5°	82.0	84.7	153.1	325.2	623.2	658.7	153.1	142.1	205.0	202.3	112.1
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°	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2
2.5°	3744.4	3769.0	3777.2	3875.6	3875.6	3875.6	3913.9	3913.9	3903.0	3875.6	3941.2
5°	3760.8	3804.6	3889.3	3974.0	3995.9	4015.0	4066.9	4023.2	4039.6	4012.3	4036.9
7.5°	3807.3	3867.4	4025.9	4077.9	4042.3	4083.3	4028.7	3998.6	3968.6	3979.5	3941.2
10°	3886.6	3963.1	4036.9	4132.5	4064.2	4023.2	3911.2	3883.8	3788.2	3755.4	3785.4
12.5°	3984.9	4077.9	4203.6	4168.1	4036.9	3919.4	3799.1	3684.3	3626.9	3544.9	3566.8
15°	4083.3	4189.9	4209.1	4148.9	3984.9	3837.4	3618.7	3457.4	3400.1	3326.3	3364.5
17.5°	4189.9	4291.1	4258.3	4102.5	3881.1	3657.0	3408.3	3249.7	3129.5	3083.0	3083.0
20°	4348.5	4397.7	4345.7	4025.9	3755.4	3460.2	3219.7	3039.3	2919.0	2899.9	2869.8
22.5°	4471.5	4550.7	4318.4	3913.9	3572.2	3203.3	2927.2	2858.9	2823.4	2793.3	2755.0
25°	4630.0	4627.2	4269.2	3810.0	3257.9	2897.2	2730.4	2725.0	2708.6	2697.6	2749.6
27.5°	4780.3	4717.4	4211.8	3553.1	2932.7	2664.8	2574.6	2634.8	2659.4	2643.0	2664.8
30°	5018.1	4914.2	4129.8	3279.8	2645.7	2429.8	2446.2	2528.2	2569.2	2593.8	2561.0
32.5°	5269.5	5111.0	3960.4	2995.5	2391.5	2282.2	2320.5	2405.2	2454.4	2481.7	2511.8
35°	5633.0	5264.1	3788.2	2623.8	2208.4	2192.0	2213.9	2260.3	2331.4	2350.5	2358.7
37.5°	6081.3	5496.4	3555.8	2325.9	2066.3	2085.4	2107.3	2123.7	2126.4	2161.9	2148.3
40°	6529.5	5693.2	3216.9	2041.7	1918.7	2022.5	2011.6	1981.5	1956.9	1924.1	1915.9
42.5°	6923.1	5865.4	2839.8	1801.2	1787.5	1956.9	1921.4	1844.9	1787.5	1762.9	1721.9
45°	7365.9	6108.6	2459.8	1650.8	1686.4	1877.7	1866.7	1749.2	1675.4	1588.0	1577.0
47.5°	7939.8	6362.8	2096.3	1495.0	1590.7	1847.6	1853.1	1702.8	1596.2	1478.6	1462.2
50°	8675.1	6729.0	1820.3	1429.4	1533.3	1803.9	1812.1	1639.9	1500.5	1380.2	1369.3
52.5°	9380.2	7103.5	1590.7	1328.3	1495.0	1752.0	1771.1	1582.5	1421.2	1270.9	1279.1
55°	9735.5	6966.8	1393.9	1254.5	1407.6	1667.2	1738.3	1541.5	1301.0	1197.1	1194.4
57.5°	9814.8	6630.6	1238.1	1178.0	1333.8	1577.0	1683.6	1418.5	1246.3	1158.9	1147.9
60°	9555.1	6043.0	1115.1	1096.0	1240.9	1484.1	1557.9	1352.9	1191.7	1120.6	1104.2
62.5°	8915.6	5433.5	1030.4	1057.7	1161.6	1383.0	1478.6	1306.5	1139.7	1090.5	1055.0
65°	7311.2	4468.7	962.1	983.9	1079.6	1284.6	1429.4	1254.5	1093.3	1046.8	1044.1
67.5°	5064.5	3080.3	907.4	948.4	1014.0	1213.5	1380.2	1197.1	1033.1	1016.7	994.9
70°	2593.8	1642.6	836.3	869.1	942.9	1123.3	1292.8	1137.0	970.3	967.5	940.2
72.5°	1314.7	962.1	754.4	803.5	855.5	1005.8	1183.5	1057.7	891.0	860.9	817.2
73°	1137.0	891.0	740.7	784.4	833.6	973.0	1150.7	1038.6	880.1	836.3	795.3
75°	828.1	702.4	664.2	707.9	746.2	877.3	1041.3	951.1	809.0	762.6	724.3
77.5°	620.4	541.2	552.1	601.3	634.1	757.1	926.5	860.9	732.5	669.6	653.2
80°	456.4	412.7	456.4	502.9	527.5	666.9	844.5	746.2	617.7	546.6	533.0
82.5°	325.2	300.6	352.6	382.6	393.6	552.1	759.8	595.8	467.4	374.4	344.4
85°	185.9	183.1	237.8	235.1	243.3	322.5	500.2	396.3	300.6	229.6	224.1
87.5°	82.0	90.2	120.3	95.7	101.1	153.1	213.2	147.6	123.0	68.3	51.9
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)