

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: P478171

Luminaire Tested: **IFLD-S-SA6A-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27651 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

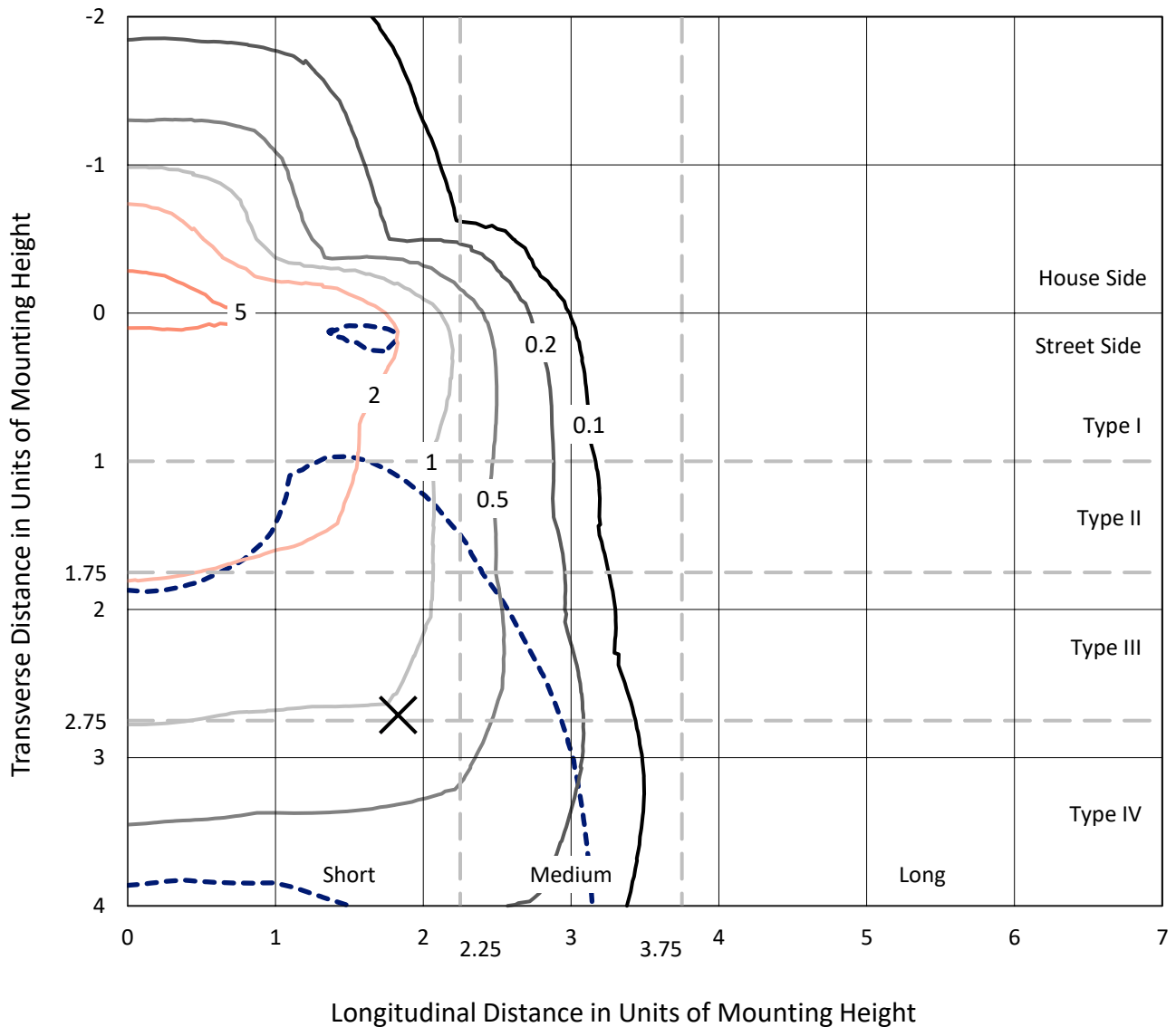
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

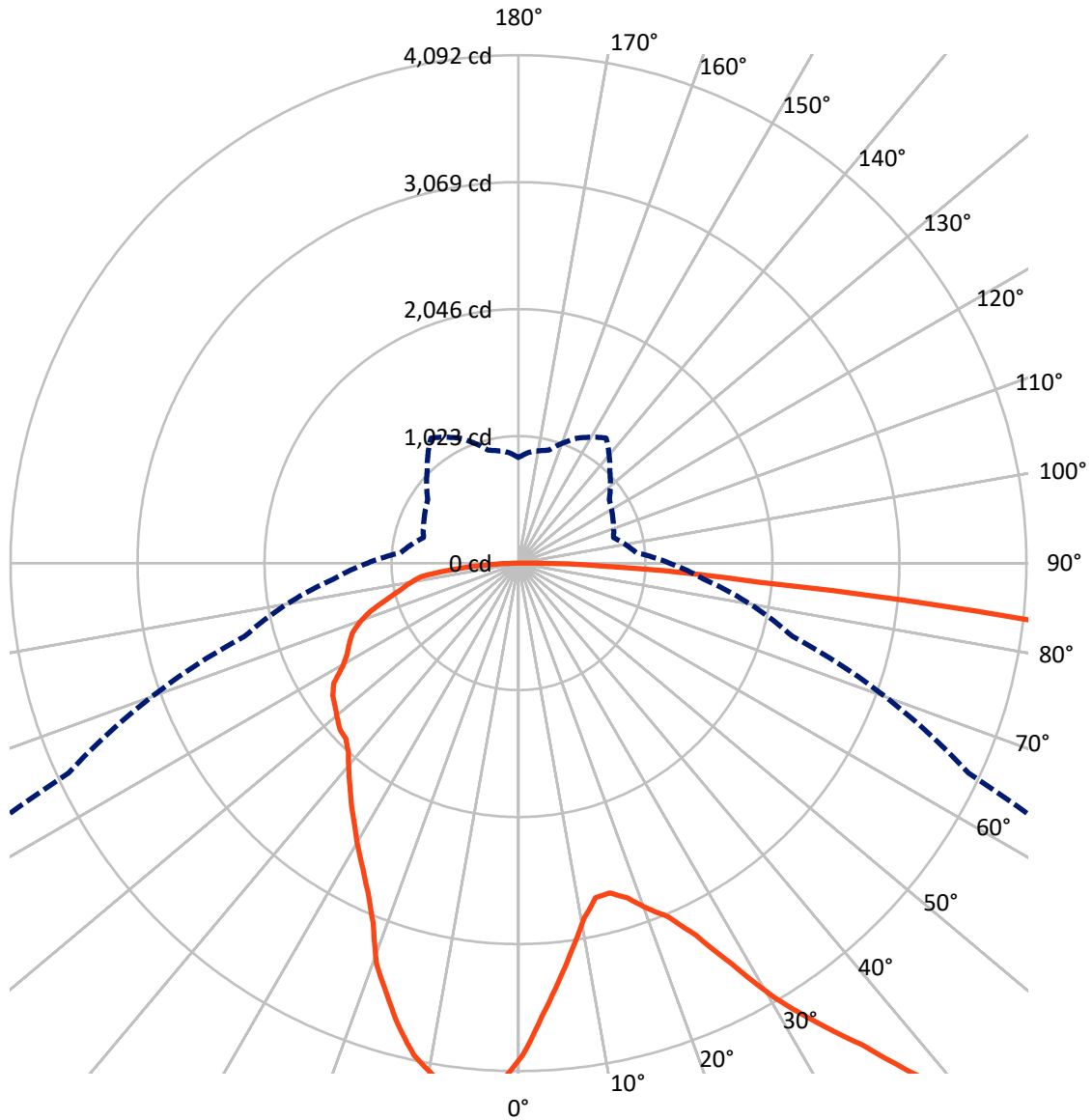
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	5972.9	0.0	5972.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21678.0	0.0	21678.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	27651.0	0.0	27651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	1.3
10°-20°	1023.9	3.7
20°-30°	1685.3	6.1
30°-40°	2520.3	9.1
40°-50°	3736.2	13.5
50°-60°	5384.3	19.5
60°-70°	6871.0	24.8
70°-80°	5346.8	19.3
80°-90°	717.3	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°	27651.0	100.0
0°-180°	27651.0	100.0

Coefficient of Utilization



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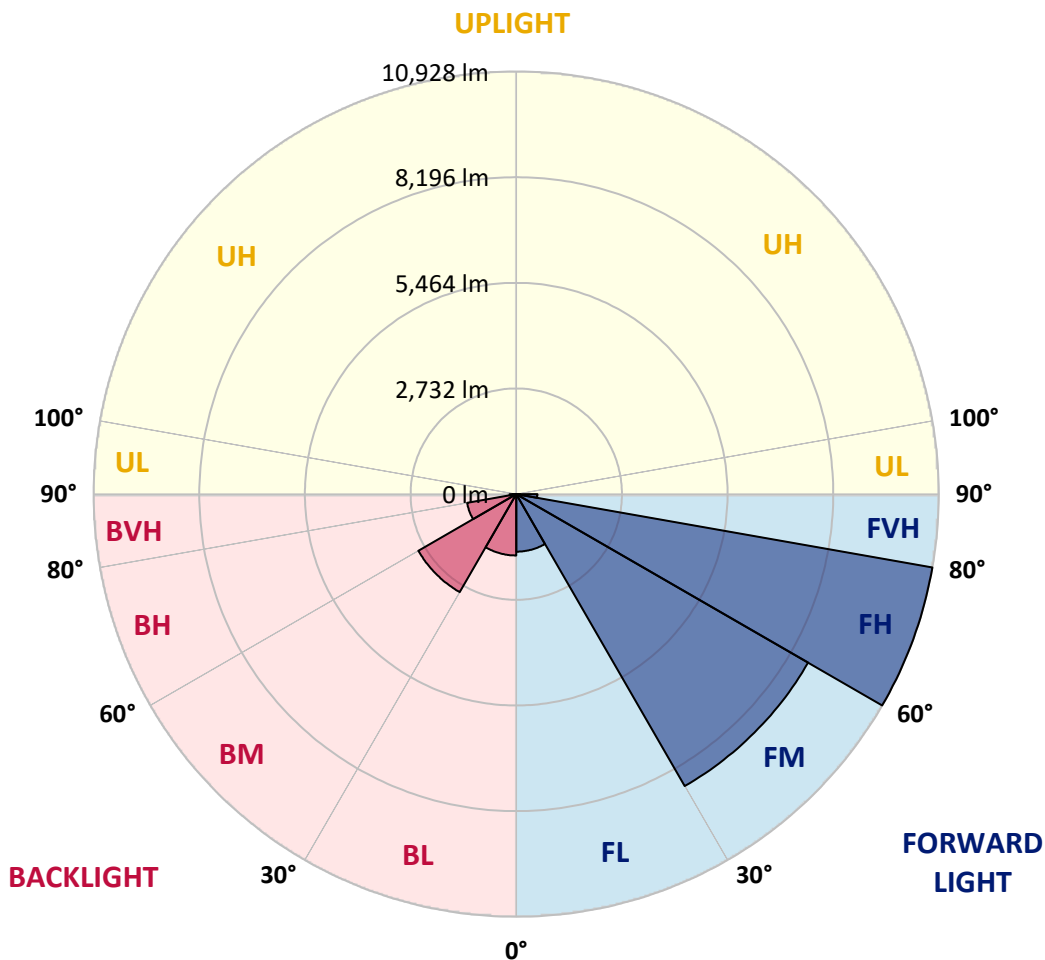
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.1	5.4			
FM (30°-60°)	8715.8	31.5			
FH (60°-80°)	10928.2	39.5			G4/12000
FVH (80°-90°)	546.0	2.0			G4/750
BL (0°-30°)	1587.0	5.7	B3/2500		
BM (30°-60°)	2925.0	10.6	B3/5000		
BH (60°-80°)	1289.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	171.3	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°	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2
2.5°	3552.0	3563.7	3601.7	3610.5	3651.4	3628.0	3677.7	3765.4	3815.1	3888.2	3975.9
5°	3271.3	3221.6	3245.0	3335.7	3382.4	3394.1	3446.7	3595.8	3689.4	3797.6	3961.3
7.5°	2941.0	2932.2	2979.0	3037.5	3131.0	3139.8	3256.7	3388.3	3581.2	3821.0	4013.9
10°	2715.9	2753.9	2780.2	2841.6	2905.9	2905.9	3055.0	3283.0	3502.3	3733.2	4025.6
12.5°	2704.2	2680.8	2686.7	2718.8	2765.6	2824.1	2964.4	3169.0	3446.7	3715.7	4075.3
15°	2742.2	2751.0	2698.3	2739.3	2756.8	2777.3	2932.2	3163.2	3411.7	3777.1	4160.1
17.5°	2943.9	2894.2	2812.4	2774.4	2835.7	2835.7	2941.0	3122.2	3417.5	3809.3	4282.9
20°	3101.8	3101.8	2967.3	2926.4	2970.2	2961.5	3034.5	3169.0	3446.7	3873.6	4420.3
22.5°	3367.8	3405.8	3183.6	3098.9	3095.9	3119.3	3183.6	3297.7	3528.6	3964.2	4551.8
25°	3750.8	3759.6	3502.3	3414.6	3321.0	3359.0	3370.7	3484.8	3601.7	4069.4	4700.9
27.5°	4177.6	4171.8	3935.0	3715.7	3654.3	3663.1	3598.8	3674.8	3709.9	4101.6	4914.3
30°	4651.2	4598.6	4420.3	4110.4	4060.7	4005.1	3864.8	3861.9	3935.0	4282.9	5209.6
32.5°	4961.1	4893.9	4771.1	4548.9	4411.5	4417.3	4195.2	4192.2	4127.9	4481.7	5466.9
35°	5265.1	5162.8	5130.7	4902.6	4765.2	4779.8	4601.5	4578.1	4461.2	4782.8	5890.8
37.5°	5630.6	5539.9	5589.6	5417.2	5247.6	5177.4	5095.6	5066.3	4914.3	5206.7	6469.6
40°	6034.0	6004.8	5972.6	5887.8	5785.5	5791.4	5703.7	5674.4	5449.3	5718.3	7025.1
42.5°	6577.8	6466.7	6300.0	6355.6	6408.2	6463.8	6434.5	6358.5	6124.6	6238.6	7644.8
45°	7083.5	6937.3	6630.4	6647.9	6864.3	6908.1	7261.9	7253.1	6782.4	6899.3	8349.4
47.5°	7425.6	7358.3	7174.1	7153.7	7463.6	7460.6	8098.0	8098.0	7475.3	7557.1	9106.6
50°	7934.2	7758.8	7679.9	7782.2	7940.1	8048.3	8951.6	9007.2	8156.4	8244.1	10097.6
52.5°	8530.6	8311.4	8112.6	8375.7	8656.3	8726.5	9796.5	9773.1	8679.7	9042.2	11258.2
55°	9024.7	8913.6	8776.2	8928.2	9387.2	9474.9	10644.3	10427.9	9203.0	9702.9	11816.6
57.5°	9600.6	9667.9	9697.1	9659.1	10205.8	10343.2	11611.9	10992.2	9653.2	10147.3	12144.0
60°	10468.9	10509.8	10547.8	10638.4	11217.3	11410.2	12377.9	11699.7	9936.8	10404.6	12170.3
62.5°	11790.3	11632.4	11717.2	12030.0	12494.8	12714.1	13506.3	12196.6	10153.1	10559.5	11310.8
65°	13301.7	13088.3	13000.6	13404.0	14608.5	14433.1	14915.4	12567.9	9840.3	9980.7	9591.8
67.5°	14833.6	14857.0	14631.9	15441.7	16918.0	16918.0	16225.2	12746.2	8992.5	8089.2	6726.9
70°	16049.7	16122.8	16245.6	17815.5	20154.3	20508.0	17847.7	12015.4	7264.8	5385.0	3677.7
72.5°	16032.2	15812.9	16441.5	19332.8	23095.3	22800.0	18186.8	9501.2	4534.3	2637.0	1686.8
73°	15672.6	15488.4	16175.5	19318.2	23215.1	22937.4	17938.3	8758.7	3999.3	2286.1	1499.7
75°	12798.9	12465.6	13635.0	17496.9	21478.6	21692.0	15240.0	5712.4	2192.6	1409.1	1055.4
77.5°	5835.2	5981.4	7504.5	11737.7	16552.6	16804.0	10018.7	2470.3	1201.5	988.1	777.6
80°	1873.9	1967.5	2920.5	5835.2	10375.3	10828.5	4630.7	1122.6	856.6	757.2	581.8
82.5°	716.2	713.3	1224.9	2426.5	4917.2	5206.7	1692.7	684.1	637.3	558.4	412.2
85°	251.4	263.1	461.9	958.9	1935.3	2026.0	587.6	380.0	441.4	374.2	236.8
87.5°	87.7	90.6	163.7	347.9	666.5	704.6	163.7	152.0	219.3	216.3	119.9
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°	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2	3964.2
2.5°	4005.1	4031.4	4040.2	4145.5	4145.5	4145.5	4186.4	4186.4	4174.7	4145.5	4215.6
5°	4022.7	4069.4	4160.1	4250.7	4274.1	4294.5	4350.1	4303.3	4320.9	4291.6	4317.9
7.5°	4072.4	4136.7	4306.2	4361.8	4323.8	4367.6	4309.2	4277.0	4244.9	4256.5	4215.6
10°	4157.1	4239.0	4317.9	4420.3	4347.2	4303.3	4183.5	4154.2	4051.9	4016.8	4049.0
12.5°	4262.4	4361.8	4496.3	4458.3	4317.9	4192.2	4063.6	3940.8	3879.4	3791.7	3815.1
15°	4367.6	4481.7	4502.1	4437.8	4262.4	4104.5	3870.6	3698.2	3636.8	3557.8	3598.8
17.5°	4481.7	4589.8	4554.7	4388.1	4151.3	3911.6	3645.5	3476.0	3347.4	3297.7	3297.7
20°	4651.2	4703.8	4648.3	4306.2	4016.8	3701.1	3443.8	3250.9	3122.2	3101.8	3069.6
22.5°	4782.8	4867.5	4619.1	4186.4	3821.0	3426.3	3131.0	3057.9	3019.9	2987.8	2946.8
25°	4952.3	4949.4	4566.4	4075.3	3484.8	3098.9	2920.5	2914.7	2897.1	2885.4	2941.0
27.5°	5113.1	5045.9	4505.0	3800.5	3136.9	2850.4	2753.9	2818.2	2844.5	2827.0	2850.4
30°	5367.5	5256.4	4417.3	3508.1	2829.9	2598.9	2616.5	2704.2	2748.0	2774.4	2739.3
32.5°	5636.4	5466.9	4236.1	3204.1	2558.0	2441.1	2482.0	2572.6	2625.3	2654.5	2686.7
35°	6025.2	5630.6	4051.9	2806.5	2362.1	2344.6	2368.0	2417.7	2493.7	2514.2	2522.9
37.5°	6504.7	5879.1	3803.4	2487.9	2210.1	2230.6	2254.0	2271.5	2274.4	2312.4	2297.8
40°	6984.1	6089.5	3440.9	2183.8	2052.3	2163.4	2151.7	2119.5	2093.2	2058.1	2049.3
42.5°	7405.1	6273.7	3037.5	1926.6	1911.9	2093.2	2055.2	1973.3	1911.9	1885.6	1841.8
45°	7878.7	6533.9	2631.1	1765.8	1803.8	2008.4	1996.7	1871.0	1792.1	1698.5	1686.8
47.5°	8492.6	6805.8	2242.3	1599.1	1701.4	1976.3	1982.1	1821.3	1707.3	1581.6	1564.0
50°	9279.0	7197.5	1947.0	1529.0	1640.1	1929.5	1938.2	1754.1	1605.0	1476.3	1464.6
52.5°	10033.3	7598.0	1701.4	1420.8	1599.1	1873.9	1894.4	1692.7	1520.2	1359.4	1368.2
55°	10413.3	7451.9	1491.0	1341.9	1505.6	1783.3	1859.3	1648.8	1391.6	1280.5	1277.5
57.5°	10498.1	7092.3	1324.3	1260.0	1426.6	1686.8	1800.8	1517.3	1333.1	1239.5	1227.8
60°	10220.4	6463.8	1192.8	1172.3	1327.2	1587.4	1666.4	1447.1	1274.6	1198.6	1181.1
62.5°	9536.3	5811.8	1102.1	1131.4	1242.5	1479.3	1581.6	1397.4	1219.1	1166.5	1128.5
65°	7820.2	4779.8	1029.1	1052.4	1154.8	1374.0	1529.0	1341.9	1169.4	1119.7	1116.8
67.5°	5417.2	3294.7	970.6	1014.4	1084.6	1298.0	1476.3	1280.5	1105.1	1087.5	1064.1
70°	2774.4	1757.0	894.6	929.7	1008.6	1201.5	1382.8	1216.2	1037.8	1034.9	1005.7
72.5°	1406.2	1029.1	806.9	859.5	915.0	1075.8	1265.9	1131.4	953.0	920.9	874.1
73°	1216.2	953.0	792.3	839.0	891.7	1040.7	1230.8	1110.9	941.4	894.6	850.7
75°	885.8	751.3	710.4	757.2	798.1	938.4	1113.8	1017.4	865.3	815.6	774.7
77.5°	663.6	578.8	590.5	643.2	678.2	809.8	991.0	920.9	783.5	716.2	698.7
80°	488.2	441.4	488.2	537.9	564.2	713.3	903.3	798.1	660.7	584.7	570.1
82.5°	347.9	321.6	377.1	409.3	421.0	590.5	812.7	637.3	499.9	400.5	368.4
85°	198.8	195.9	254.3	251.4	260.2	345.0	535.0	423.9	321.6	245.6	239.7
87.5°	87.7	96.5	128.6	102.3	108.2	163.7	228.0	157.9	131.6	73.1	55.5
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)