

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: P478421

Luminaire Tested: **IFLD-L-SA8B-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

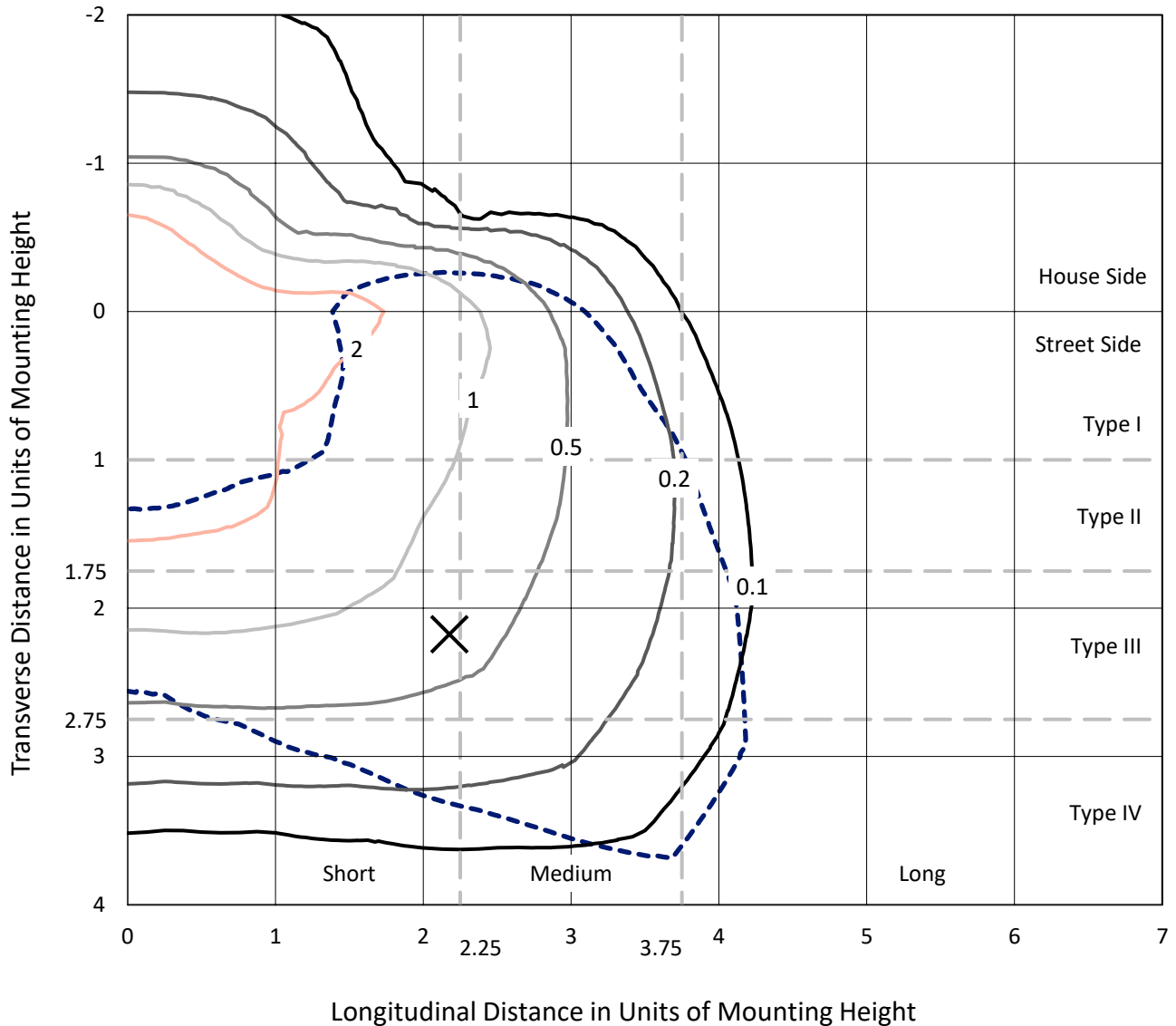
Lumens per Lamp: N/A
Luminaire Lumens: 30301.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

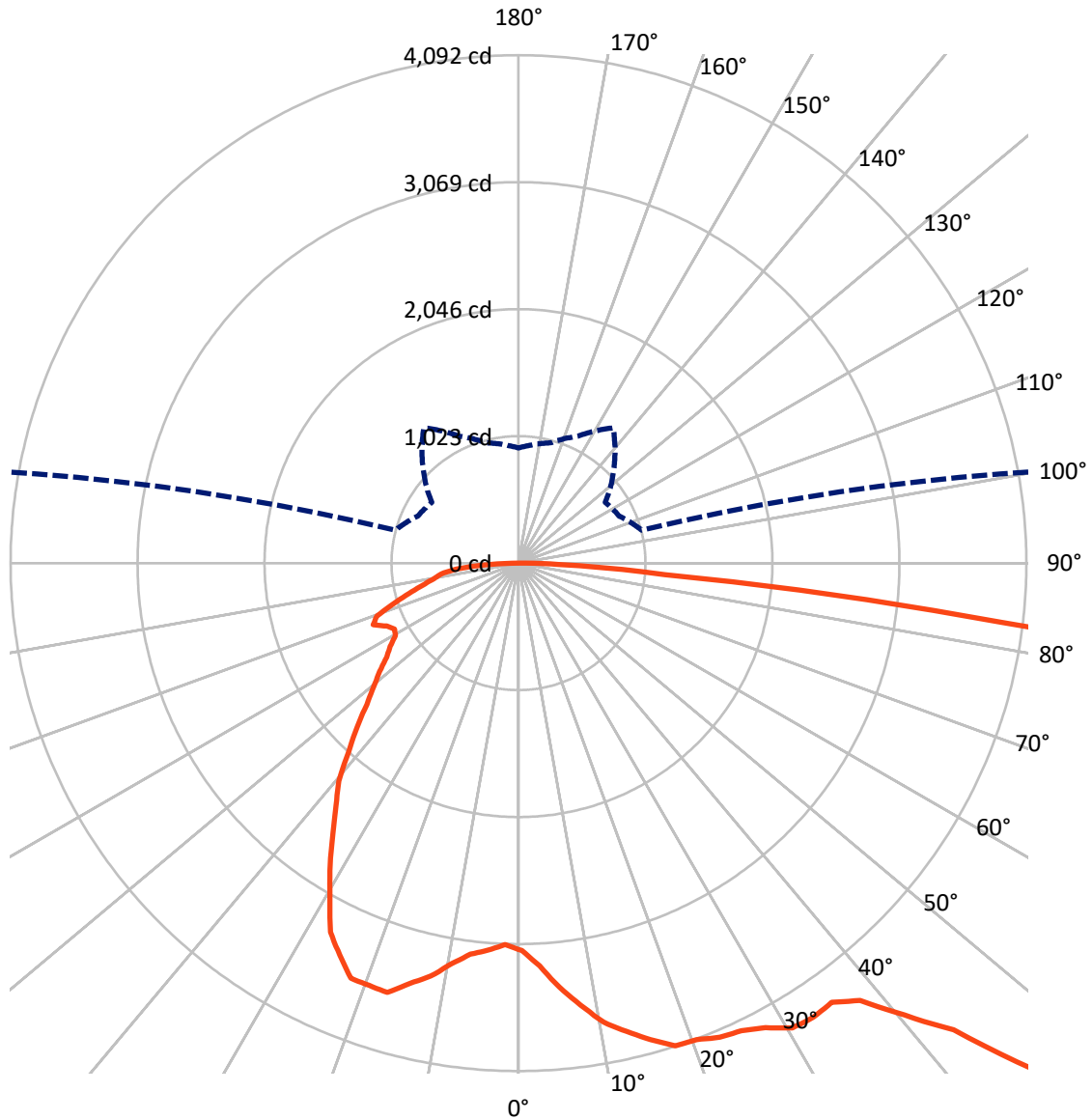
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	6745.4	0.0	6745.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23556.5	0.0	23556.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	30301.8	0.0	30301.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	1.1
10°-20°	1062.4	3.5
20°-30°	1794.1	5.9
30°-40°	2482.7	8.2
40°-50°	3551.3	11.7
50°-60°	5727.8	18.9
60°-70°	8447.7	27.9
70°-80°	6134.5	20.2
80°-90°	782.0	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°	30301.8	100.0
0°-180°	30301.8	100.0

Coefficient of Utilization



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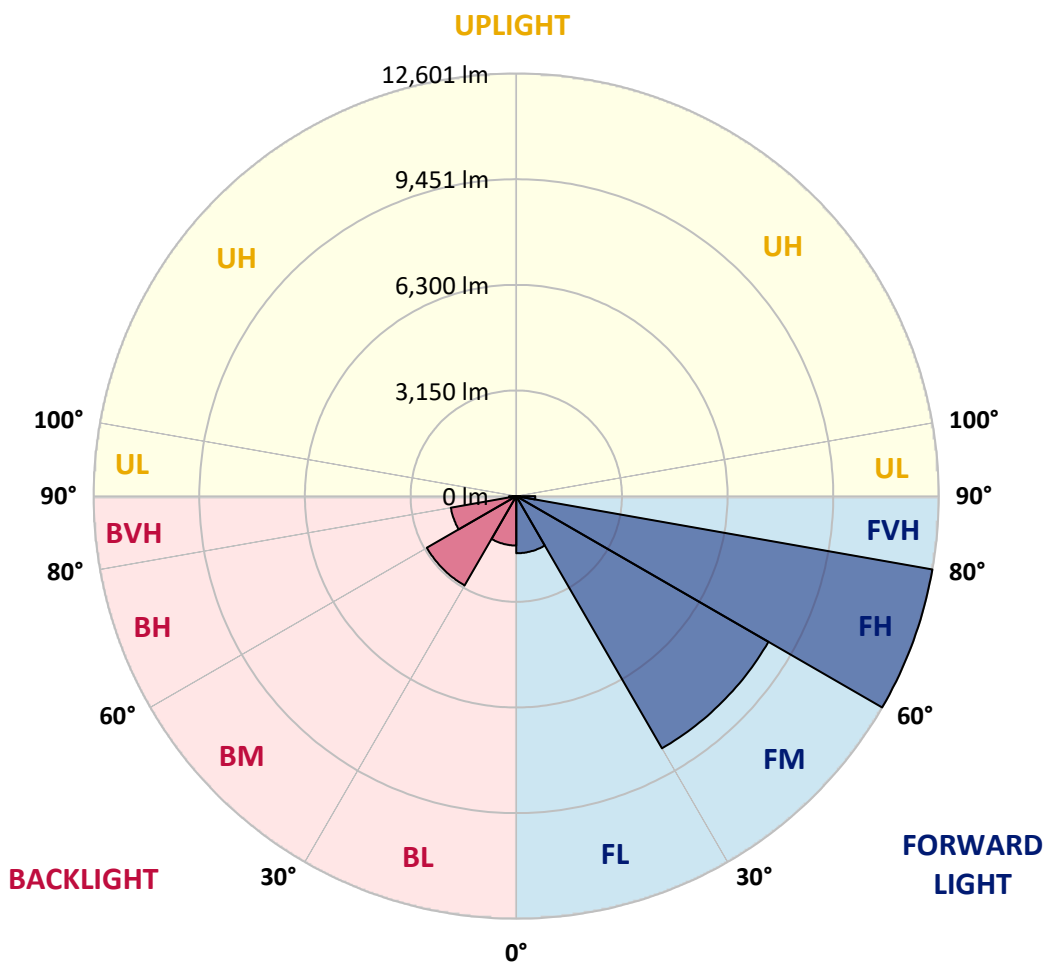
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.0	5.6			
FM (30°-60°)	8683.4	28.7			
FH (60°-80°)	12600.8	41.6			G5
FVH (80°-90°)	569.2	1.9			G4/750
BL (0°-30°)	1472.8	4.9	B3/2500		
BM (30°-60°)	3078.4	10.2	B3/5000		
BH (60°-80°)	1981.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	212.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5
2.5°	3287.2	3306.8	3287.2	3283.9	3251.2	3228.4	3248.0	3218.6	3185.9	3172.8	3143.4
5°	3587.8	3591.1	3555.1	3558.4	3489.8	3417.9	3431.0	3342.7	3248.0	3212.0	3153.2
7.5°	3895.0	3859.0	3806.7	3790.4	3682.6	3604.1	3594.3	3515.9	3368.9	3287.2	3205.5
10°	4094.3	4107.3	4022.4	3950.5	3859.0	3764.3	3761.0	3613.9	3529.0	3408.1	3303.5
12.5°	4270.7	4274.0	4202.1	4087.7	3973.4	3855.7	3872.1	3806.7	3663.0	3548.6	3444.0
15°	4408.0	4388.4	4309.9	4205.4	4084.5	3993.0	3983.2	3927.6	3806.7	3712.0	3538.8
17.5°	4447.2	4437.4	4359.0	4247.9	4130.2	4061.6	4087.7	3996.2	3947.2	3862.3	3695.6
20°	4372.0	4349.1	4336.1	4211.9	4127.0	4120.4	4097.5	4117.1	4035.5	3957.0	3836.1
22.5°	4234.8	4225.0	4218.4	4120.4	4081.2	4110.6	4149.8	4179.2	4166.2	4091.0	3953.8
25°	4094.3	4140.0	4097.5	4051.8	4107.3	4182.5	4172.7	4267.5	4267.5	4244.6	4130.2
27.5°	4192.3	4162.9	4130.2	4107.3	4127.0	4244.6	4238.1	4352.4	4394.9	4352.4	4221.7
30°	4437.4	4408.0	4313.2	4211.9	4185.8	4313.2	4345.9	4447.2	4466.8	4362.2	4251.1
32.5°	4898.1	4881.8	4731.5	4434.1	4274.0	4345.9	4362.2	4476.6	4460.2	4394.9	4349.1
35°	5581.0	5525.5	5316.4	4813.1	4460.2	4388.4	4345.9	4437.4	4499.5	4466.8	4424.3
37.5°	6329.3	6267.2	6009.1	5371.9	4796.8	4502.7	4470.0	4545.2	4617.1	4600.8	4512.5
40°	7044.9	7044.9	6812.9	6071.2	5296.7	4780.5	4787.0	4702.0	4767.4	4738.0	4754.3
42.5°	7750.7	7724.6	7629.8	6891.3	5832.6	5244.5	5139.9	4927.5	5045.1	5035.3	5058.2
45°	8466.3	8446.7	8420.6	7655.9	6600.5	5871.8	5816.3	5434.0	5541.8	5496.1	5594.1
47.5°	9038.1	9061.0	9061.0	8508.8	7420.7	6708.3	6626.7	6022.1	6228.0	6250.9	6273.8
50°	9525.0	9534.8	9525.0	9322.4	8335.6	7665.7	7499.1	6884.8	7090.6	7270.4	7479.5
52.5°	10198.1	10211.2	10165.4	10087.0	9577.3	8672.2	8485.9	7803.0	8224.5	8414.0	8789.8
55°	11028.1	10930.1	10845.1	10903.9	10769.9	9779.9	9587.1	8750.6	9384.5	9636.1	10387.6
57.5°	11181.7	11266.6	11482.3	11949.5	12142.3	10858.2	10747.1	9913.8	10694.8	10913.7	12168.5
60°	11724.1	11583.6	12112.9	13125.9	13341.5	12263.2	12148.9	11188.2	11998.6	12227.3	13812.1
62.5°	12080.2	12073.7	12857.9	14060.4	14550.5	13720.6	13488.6	12844.9	13406.9	13629.1	15602.7
65°	11975.7	12070.4	13462.4	14609.3	15560.2	15377.2	15243.3	14269.5	15011.3	14991.7	16769.2
67.5°	11021.5	11289.5	13080.1	15004.7	17063.3	17396.6	17354.1	16272.5	16315.0	15900.0	17288.8
70°	9698.2	9606.7	11462.7	14593.0	17814.8	19791.7	19781.9	17762.6	17488.1	16099.4	15798.7
72°	7450.1	7348.8	8874.7	12531.2	17419.5	20749.1	21043.2	18795.1	17475.0	15272.7	13050.7
72.5°	6763.9	6675.7	8195.1	11796.0	16981.6	20997.5	20860.2	18834.3	17337.8	14883.8	12191.3
75°	3114.0	3012.7	4094.3	7221.4	13246.8	18605.6	19072.9	17625.3	15142.0	11848.2	7303.0
77.5°	928.0	898.6	1316.8	2914.7	7698.4	13707.5	13887.2	13299.0	10570.6	6489.4	2708.8
80°	516.3	519.5	679.7	1091.4	3385.2	7923.9	8570.9	8214.7	5185.6	2143.5	901.9
82.5°	287.5	303.9	424.8	647.0	1555.4	3636.8	3914.6	3774.1	1875.6	1006.4	493.4
85°	150.3	156.8	222.2	346.4	882.2	1150.2	1182.9	1267.8	973.7	686.2	264.7
87.5°	58.8	58.8	81.7	143.8	326.8	356.2	320.2	388.8	558.8	444.4	130.7
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°	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5
2.5°	3169.6	3143.4	3140.1	3097.7	3110.7	3074.8	3078.1	3071.5	3074.8	3068.3	3051.9
5°	3153.2	3133.6	3078.1	3114.0	3081.3	3127.1	3163.0	3149.9	3159.7	3156.5	3159.7
7.5°	3176.1	3149.9	3143.4	3123.8	3153.2	3172.8	3202.2	3283.9	3277.4	3287.2	3306.8
10°	3244.7	3215.3	3195.7	3225.1	3208.8	3270.8	3303.5	3346.0	3421.2	3424.4	3385.2
12.5°	3378.7	3359.1	3319.9	3326.4	3381.9	3401.5	3421.2	3447.3	3496.3	3486.5	3522.5
15°	3532.3	3489.8	3466.9	3460.4	3473.4	3496.3	3493.0	3519.2	3545.3	3568.2	3558.4
17.5°	3643.4	3587.8	3594.3	3627.0	3623.7	3617.2	3574.7	3561.7	3574.7	3587.8	3581.3
20°	3757.7	3764.3	3715.2	3685.8	3672.8	3607.4	3574.7	3535.5	3496.3	3515.9	3545.3
22.5°	3901.5	3872.1	3800.2	3712.0	3646.6	3607.4	3506.1	3437.5	3437.5	3457.1	3447.3
25°	4064.9	4002.8	3878.6	3718.5	3636.8	3470.2	3398.3	3388.5	3362.3	3391.7	3404.8
27.5°	4192.3	4136.8	3966.8	3695.6	3470.2	3336.2	3293.7	3280.6	3323.1	3326.4	3378.7
30°	4244.6	4228.2	3979.9	3636.8	3300.3	3084.6	3058.5	3117.3	3163.0	3231.6	3234.9
32.5°	4313.2	4319.7	3999.5	3499.6	3078.1	2862.4	2823.2	2895.1	3025.8	3081.3	3123.8
35°	4427.6	4460.2	3983.2	3329.7	2842.8	2636.9	2630.4	2650.0	2777.4	2875.5	2931.0
37.5°	4626.9	4620.4	3979.9	3127.1	2656.5	2440.9	2388.6	2395.1	2480.1	2561.8	2552.0
40°	4894.8	4868.7	3970.1	2862.4	2414.7	2274.2	2186.0	2153.3	2146.8	2123.9	2130.5
42.5°	5260.8	5208.5	3966.8	2594.5	2195.8	2045.5	1983.4	1898.5	1836.4	1718.7	1725.3
45°	5770.5	5679.1	3881.9	2342.9	1980.2	1856.0	1761.2	1699.1	1565.2	1418.1	1418.1
47.5°	6558.0	6260.7	3885.2	2065.1	1771.0	1669.7	1604.4	1496.6	1352.8	1235.1	1222.1
50°	7718.0	7038.4	3774.1	1846.2	1601.1	1532.5	1463.9	1339.7	1202.5	1120.8	1130.6
52.5°	9214.6	8198.4	3770.8	1650.1	1467.1	1418.1	1343.0	1231.9	1130.6	1078.3	1058.7
55°	10998.7	9734.1	3888.4	1490.0	1329.9	1303.8	1271.1	1179.6	1081.6	1035.8	1032.6
57.5°	12825.2	11233.9	4077.9	1375.7	1212.3	1231.9	1209.0	1137.1	1058.7	1006.4	999.9
60°	14449.2	12423.3	3695.6	1238.4	1107.7	1150.2	1182.9	1120.8	1078.3	1075.0	1052.2
62.5°	15674.6	12933.1	2810.1	1133.8	1052.2	1130.6	1218.8	1258.0	1238.4	1264.6	1267.8
65°	16122.2	12625.9	1934.4	1078.3	1009.7	1176.3	1372.4	1359.3	1244.9	1195.9	1222.1
67.5°	15494.9	11381.0	1434.5	1012.9	980.3	1271.1	1460.6	1297.2	1124.0	1117.5	1097.9
70°	13325.2	9645.9	1169.8	944.3	931.3	1218.8	1421.4	1202.5	1058.7	1016.2	996.6
72°	10616.4	7512.2	1026.0	895.3	852.8	1088.1	1329.9	1127.3	1003.1	950.9	928.0
72.5°	9691.6	6963.2	1006.4	872.4	836.5	1058.7	1284.2	1104.4	990.1	944.3	908.4
75°	5316.4	3564.9	885.5	800.6	705.8	914.9	1189.4	1035.8	934.5	869.2	862.6
77.5°	1976.9	1382.2	764.6	709.1	611.0	790.8	1081.6	983.5	849.6	767.9	751.5
80°	758.1	728.7	624.1	598.0	513.0	692.7	996.6	882.2	722.1	640.4	614.3
82.5°	460.7	424.8	473.8	467.3	392.1	630.6	937.8	826.7	640.4	519.5	503.2
85°	251.6	251.6	330.0	317.0	274.5	503.2	709.1	549.0	405.2	333.3	339.8
87.5°	111.1	130.7	176.4	166.6	150.3	284.3	346.4	290.8	202.6	137.2	147.0
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)