

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: P478061

Luminaire Tested: **IFLD-M-SA4C-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478061
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

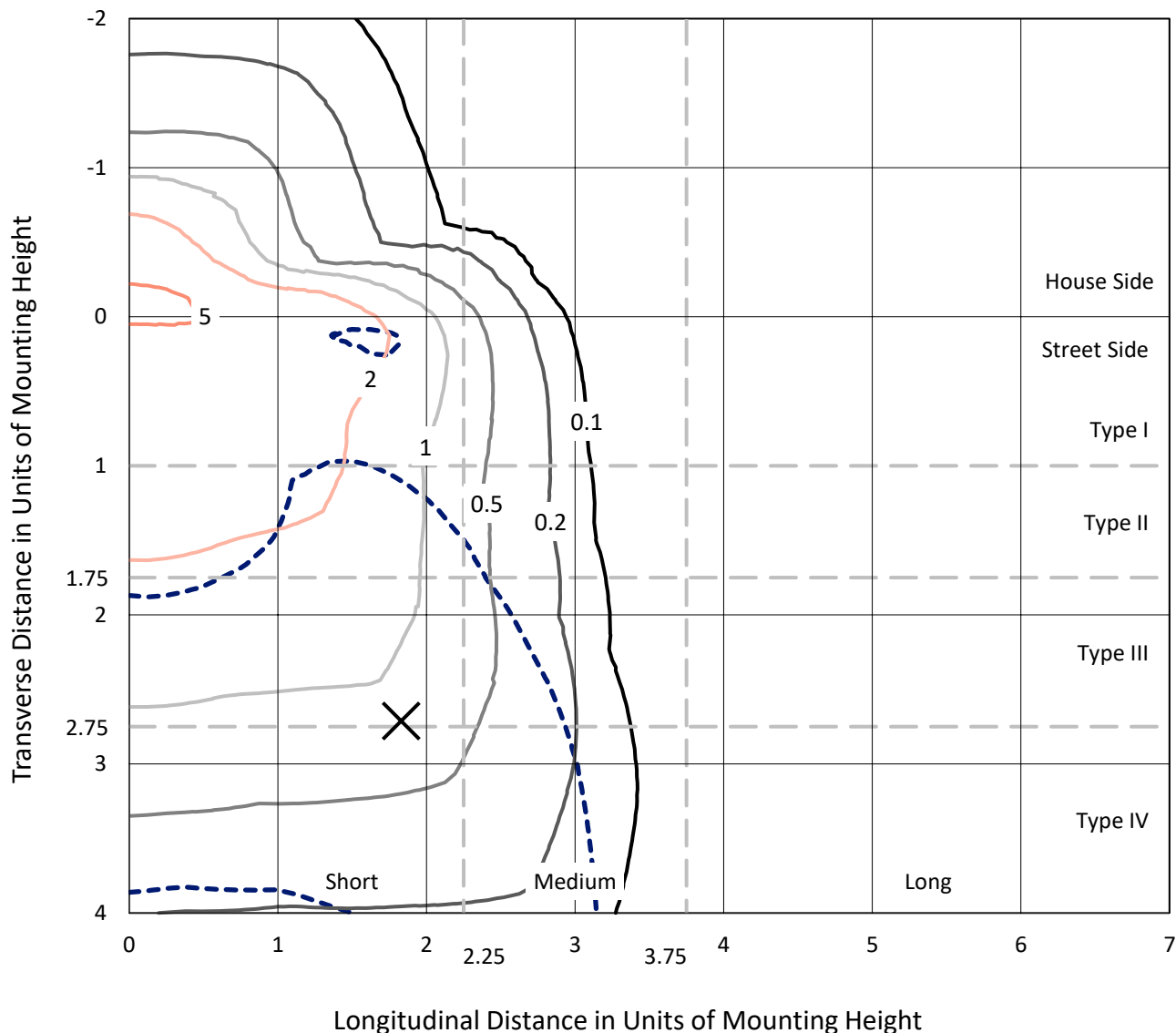
Lumens per Lamp: N/A
Luminaire Lumens: 24359.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

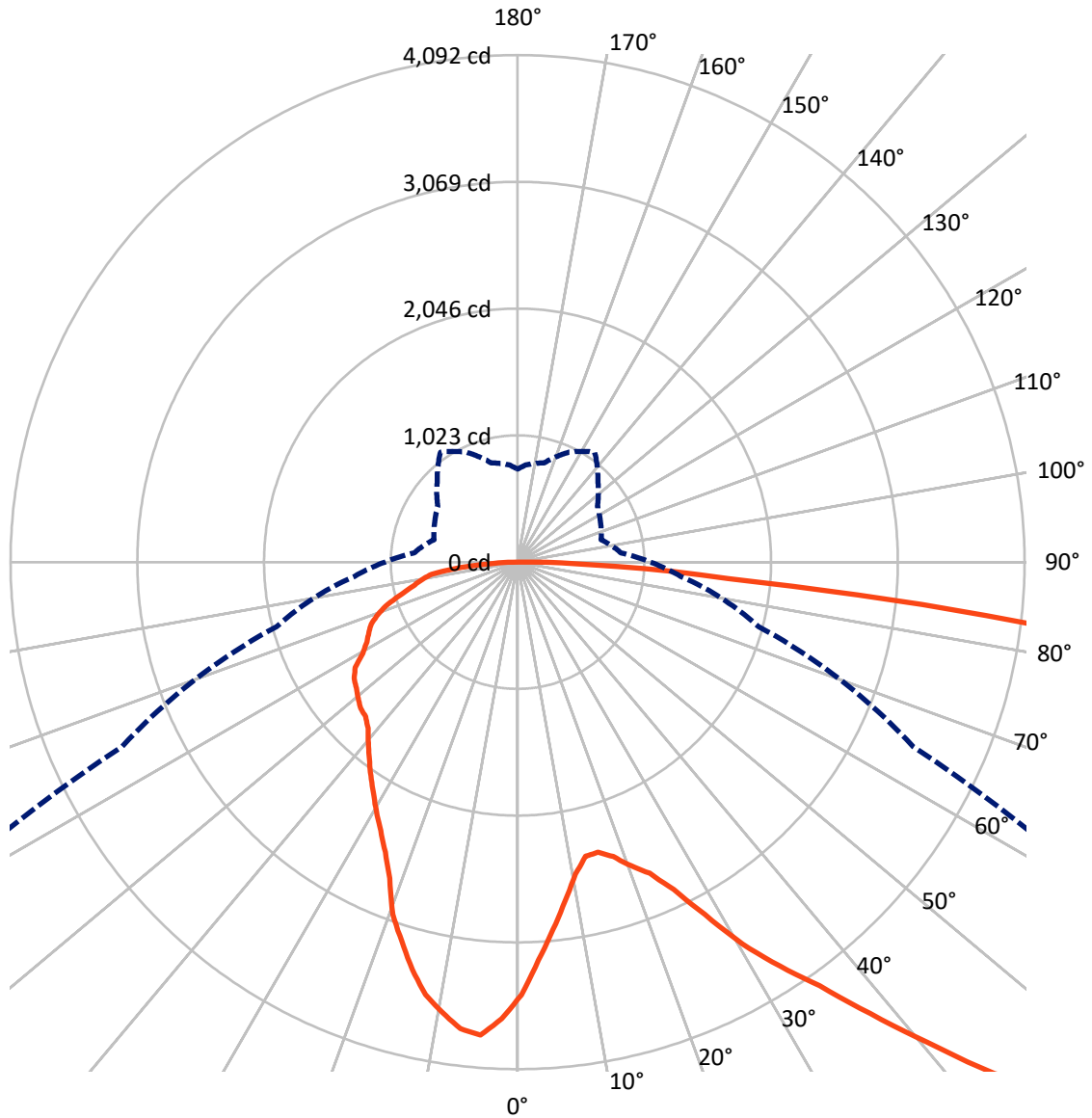
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	5262.0	0.0	5262.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19097.7	0.0	19097.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	24359.8	0.0	24359.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.3
10°-20°	902.1	3.7
20°-30°	1484.7	6.1
30°-40°	2220.3	9.1
40°-50°	3291.5	13.5
50°-60°	4743.4	19.5
60°-70°	6053.2	24.8
70°-80°	4710.4	19.3
80°-90°	631.9	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°	24359.8	100.0
0°-180°	24359.8	100.0

Coefficient of Utilization



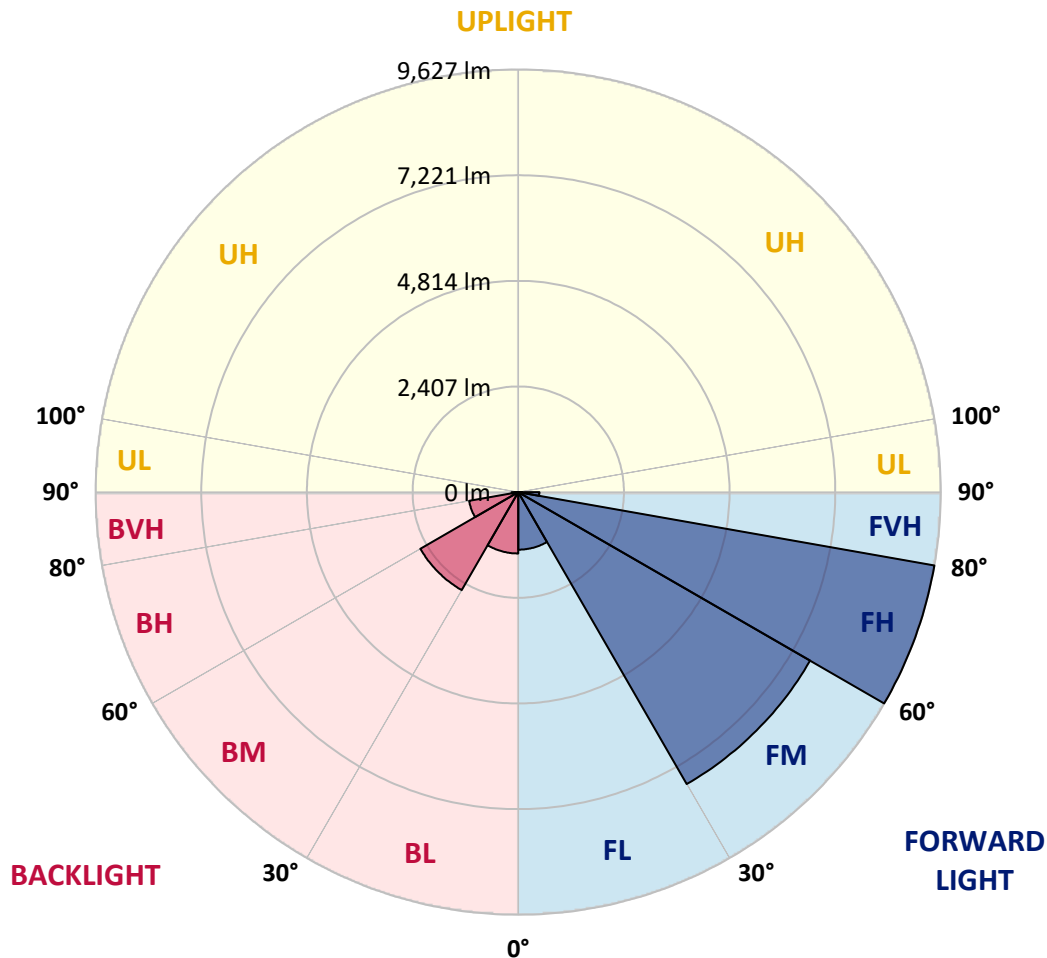
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.0	5.4			
FM (30°-60°)	7678.3	31.5			
FH (60°-80°)	9627.4	39.5			G4/12000
FVH (80°-90°)	481.0	2.0			G3/500
BL (0°-30°)	1398.1	5.7	B3/2500		
BM (30°-60°)	2576.8	10.6	B3/5000		
BH (60°-80°)	1136.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	150.9	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°	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4
2.5°	3129.2	3139.5	3173.0	3180.7	3216.8	3196.2	3240.0	3317.2	3361.0	3425.4	3502.7
5°	2882.0	2838.2	2858.8	2938.6	2979.8	2990.1	3036.5	3167.8	3250.3	3345.6	3489.8
7.5°	2590.9	2583.2	2624.4	2675.9	2758.3	2766.1	2869.1	2985.0	3155.0	3366.2	3536.1
10°	2392.6	2426.1	2449.3	2503.4	2560.0	2560.0	2691.4	2892.3	3085.4	3288.9	3546.4
12.5°	2382.3	2361.7	2366.9	2395.2	2436.4	2487.9	2611.5	2791.8	3036.5	3273.4	3590.2
15°	2415.8	2423.5	2377.2	2413.2	2428.7	2446.7	2583.2	2786.7	3005.6	3327.5	3664.9
17.5°	2593.5	2549.7	2477.6	2444.1	2498.2	2498.2	2590.9	2750.6	3010.7	3355.9	3773.1
20°	2732.6	2732.6	2614.1	2578.1	2616.7	2609.0	2673.4	2791.8	3036.5	3412.5	3894.1
22.5°	2967.0	3000.4	2804.7	2730.0	2727.4	2748.0	2804.7	2905.1	3108.6	3492.4	4010.0
25°	3304.3	3312.1	3085.4	3008.2	2925.7	2959.2	2969.5	3070.0	3173.0	3585.1	4141.4
27.5°	3680.4	3675.2	3466.6	3273.4	3219.4	3227.1	3170.4	3237.4	3268.3	3613.4	4329.4
30°	4097.6	4051.2	3894.1	3621.1	3577.3	3528.4	3404.8	3402.2	3466.6	3773.1	4589.5
32.5°	4370.6	4311.4	4203.2	4007.5	3886.4	3891.6	3695.8	3693.2	3636.6	3948.2	4816.2
35°	4638.4	4548.3	4520.0	4319.1	4198.0	4210.9	4053.8	4033.2	3930.2	4213.5	5189.6
37.5°	4960.4	4880.5	4924.3	4772.4	4623.0	4561.2	4489.1	4463.3	4329.4	4586.9	5699.5
40°	5315.8	5290.0	5261.7	5187.0	5096.9	5102.0	5024.8	4999.0	4800.7	5037.6	6188.9
42.5°	5794.8	5697.0	5550.2	5599.1	5645.5	5694.4	5668.6	5601.7	5395.6	5496.1	6734.9
45°	6240.4	6111.6	5841.2	5856.6	6047.2	6085.9	6397.5	6389.8	5975.1	6078.1	7355.6
47.5°	6541.7	6482.5	6320.2	6302.2	6575.2	6572.6	7134.1	7134.1	6585.5	6657.6	8022.6
50°	6989.9	6835.3	6765.8	6855.9	6995.0	7090.3	7886.1	7935.1	7185.6	7262.9	8895.7
52.5°	7515.3	7322.1	7147.0	7378.8	7626.0	7687.8	8630.4	8609.8	7646.6	7966.0	9918.2
55°	7950.5	7852.6	7731.6	7865.5	8269.9	8347.1	9377.3	9186.7	8107.6	8548.0	10410.1
57.5°	8457.9	8517.1	8542.9	8509.4	8991.0	9112.1	10229.8	9683.8	8504.2	8939.5	10698.6
60°	9222.8	9258.9	9292.3	9372.2	9882.1	10052.1	10904.6	10307.1	8754.1	9166.1	10721.7
62.5°	10386.9	10247.8	10322.5	10598.1	11007.6	11200.8	11898.7	10744.9	8944.6	9302.6	9964.5
65°	11718.4	11530.4	11453.2	11808.6	12869.7	12715.2	13140.1	11072.0	8669.1	8792.7	8450.2
67.5°	13068.0	13088.6	12890.3	13603.7	14904.3	14904.3	14293.9	11229.1	7922.2	7126.4	5926.2
70°	14139.4	14203.8	14312.0	15695.0	17755.4	18067.0	15723.3	10585.2	6400.1	4744.0	3240.0
72.5°	14123.9	13930.8	14484.5	17031.7	20346.3	20086.2	16022.1	8370.3	3994.6	2323.1	1486.1
73°	13807.2	13644.9	14250.1	17018.8	20451.9	20207.2	15803.2	7716.1	3523.3	2014.0	1321.2
75°	11275.5	10981.9	12012.0	15414.3	18922.1	19110.1	13426.0	5032.5	1931.6	1241.4	929.7
77.5°	5140.7	5269.4	6611.3	10340.6	14582.4	14803.9	8826.2	2176.3	1058.5	870.5	685.1
80°	1650.9	1733.3	2572.9	5140.7	9140.4	9539.6	4079.6	989.0	754.6	667.0	512.5
82.5°	631.0	628.4	1079.1	2137.7	4332.0	4586.9	1491.2	602.7	561.5	491.9	363.1
85°	221.5	231.8	406.9	844.8	1705.0	1784.8	517.7	334.8	388.9	329.7	208.6
87.5°	77.3	79.8	144.2	306.5	587.2	620.7	144.2	133.9	193.2	190.6	105.6
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°	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4	3492.4
2.5°	3528.4	3551.6	3559.3	3652.0	3652.0	3652.0	3688.1	3688.1	3677.8	3652.0	3713.8
5°	3543.9	3585.1	3664.9	3744.8	3765.4	3783.4	3832.3	3791.1	3806.6	3780.8	3804.0
7.5°	3587.6	3644.3	3793.7	3842.6	3809.1	3847.8	3796.3	3767.9	3739.6	3749.9	3713.8
10°	3662.3	3734.4	3804.0	3894.1	3829.7	3791.1	3685.5	3659.8	3569.6	3538.7	3567.0
12.5°	3755.1	3842.6	3961.1	3927.6	3804.0	3693.2	3579.9	3471.7	3417.7	3340.4	3361.0
15°	3847.8	3948.2	3966.2	3909.6	3755.1	3616.0	3409.9	3258.0	3203.9	3134.4	3170.4
17.5°	3948.2	4043.5	4012.6	3865.8	3657.2	3446.0	3211.6	3062.2	2948.9	2905.1	2905.1
20°	4097.6	4144.0	4095.0	3793.7	3538.7	3260.6	3033.9	2863.9	2750.6	2732.6	2704.3
22.5°	4213.5	4288.2	4069.3	3688.1	3366.2	3018.5	2758.3	2694.0	2660.5	2632.1	2596.1
25°	4362.9	4360.3	4022.9	3590.2	3070.0	2730.0	2572.9	2567.8	2552.3	2542.0	2590.9
27.5°	4504.5	4445.3	3968.8	3348.1	2763.5	2511.1	2426.1	2482.8	2505.9	2490.5	2511.1
30°	4728.6	4630.7	3891.6	3090.6	2493.1	2289.6	2305.1	2382.3	2421.0	2444.1	2413.2
32.5°	4965.5	4816.2	3731.9	2822.7	2253.5	2150.5	2186.6	2266.4	2312.8	2338.5	2366.9
35°	5308.1	4960.4	3569.6	2472.5	2081.0	2065.5	2086.1	2129.9	2196.9	2214.9	2222.6
37.5°	5730.4	5179.3	3350.7	2191.7	1947.1	1965.1	1985.7	2001.1	2003.7	2037.2	2024.3
40°	6152.8	5364.7	3031.3	1923.9	1808.0	1905.9	1895.6	1867.2	1844.0	1813.1	1805.4
42.5°	6523.7	5527.0	2675.9	1697.2	1684.4	1844.0	1810.6	1738.5	1684.4	1661.2	1622.6
45°	6940.9	5756.2	2317.9	1555.6	1589.1	1769.4	1759.1	1648.3	1578.8	1496.4	1486.1
47.5°	7481.8	5995.7	1975.4	1408.8	1498.9	1741.0	1746.2	1604.5	1504.1	1393.3	1377.9
50°	8174.6	6340.8	1715.3	1347.0	1444.8	1699.8	1707.5	1545.3	1413.9	1300.6	1290.3
52.5°	8839.1	6693.7	1498.9	1251.7	1408.8	1650.9	1668.9	1491.2	1339.3	1197.6	1205.3
55°	9173.9	6564.9	1313.5	1182.1	1326.4	1571.0	1638.0	1452.6	1225.9	1128.1	1125.5
57.5°	9248.6	6248.1	1166.7	1110.0	1256.8	1486.1	1586.5	1336.7	1174.4	1092.0	1081.7
60°	9003.9	5694.4	1050.8	1032.8	1169.3	1398.5	1468.0	1274.9	1122.9	1055.9	1040.5
62.5°	8401.2	5120.1	971.0	996.7	1094.6	1303.2	1393.3	1231.1	1074.0	1027.6	994.1
65°	6889.4	4210.9	906.6	927.2	1017.3	1210.5	1347.0	1182.1	1030.2	986.4	983.8
67.5°	4772.4	2902.6	855.1	893.7	955.5	1143.5	1300.6	1128.1	973.5	958.1	937.5
70°	2444.1	1547.9	788.1	819.0	888.5	1058.5	1218.2	1071.4	914.3	911.7	886.0
72.5°	1238.8	906.6	710.8	757.2	806.1	947.8	1115.2	996.7	839.6	811.3	770.1
73°	1071.4	839.6	698.0	739.2	785.5	916.9	1084.3	978.7	829.3	788.1	749.5
75°	780.4	661.9	625.8	667.0	703.1	826.7	981.3	896.3	762.3	718.6	682.5
77.5°	584.6	509.9	520.2	566.6	597.5	713.4	873.1	811.3	690.2	631.0	615.5
80°	430.1	388.9	430.1	473.9	497.1	628.4	795.8	703.1	582.1	515.1	502.2
82.5°	306.5	283.3	332.2	360.6	370.9	520.2	716.0	561.5	440.4	352.8	324.5
85°	175.1	172.6	224.1	221.5	229.2	303.9	471.3	373.4	283.3	216.3	211.2
87.5°	77.3	85.0	113.3	90.1	95.3	144.2	200.9	139.1	115.9	64.4	48.9
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)