

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: P476494

Luminaire Tested: **IFLD-S-SA6A-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

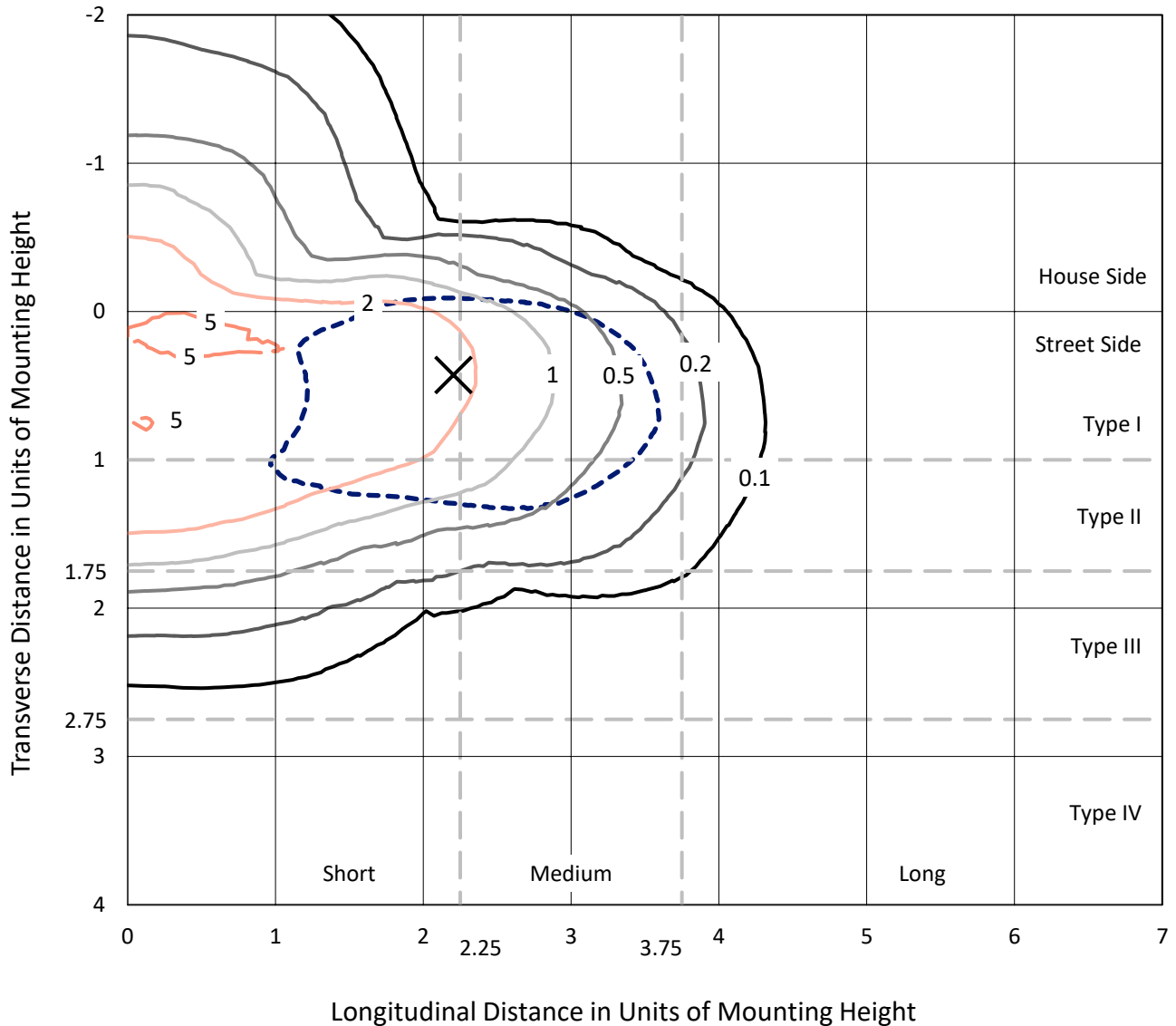
Lumens per Lamp: N/A
Luminaire Lumens: 22544.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

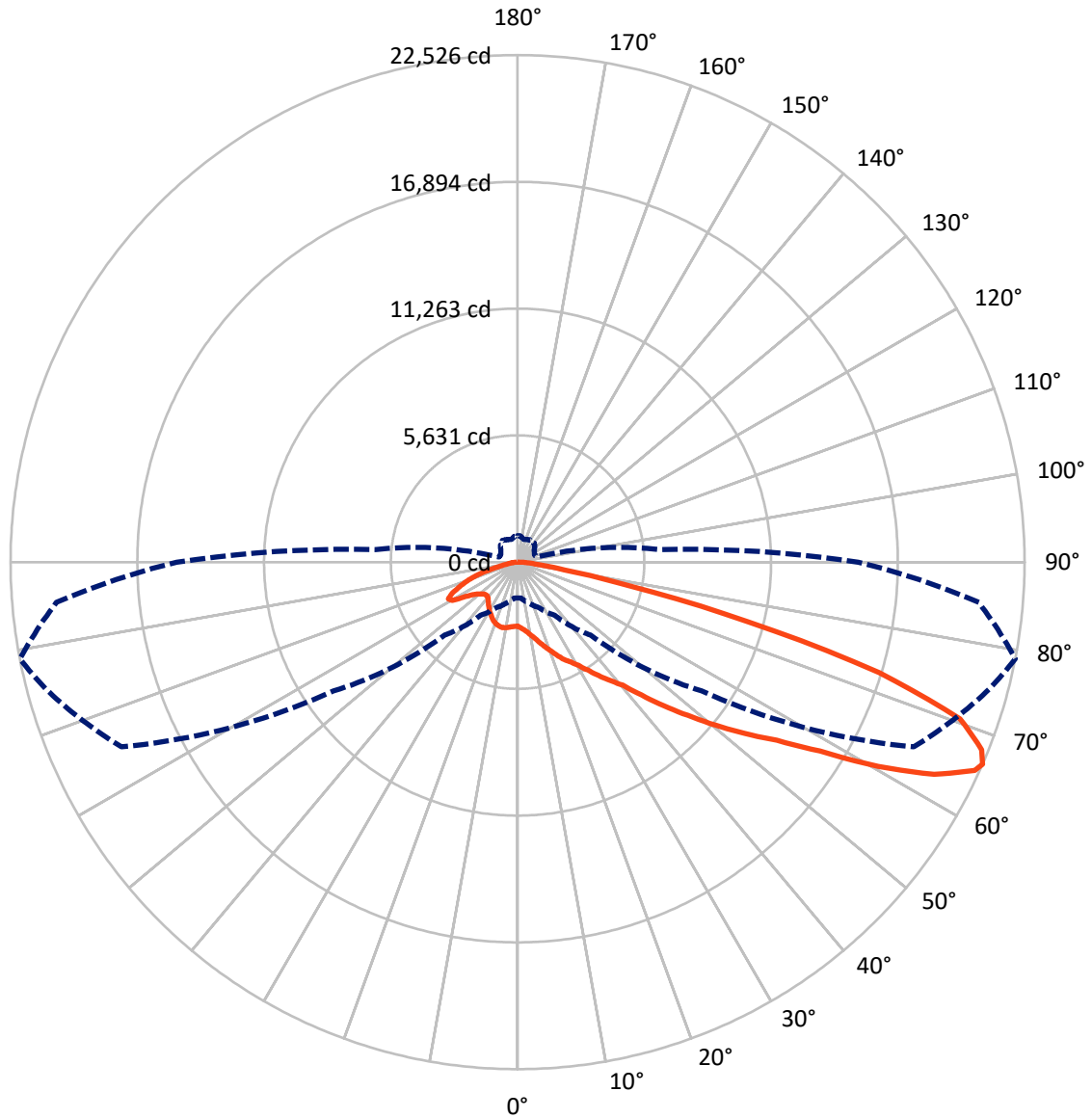
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4552.5	0.0	4552.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	17991.9	0.0	17991.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	22544.5	0.0	22544.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	1.2
10°-20°	864.4	3.8
20°-30°	1483.7	6.6
30°-40°	2292.1	10.2
40°-50°	3671.3	16.3
50°-60°	5481.5	24.3
60°-70°	5632.3	25.0
70°-80°	2496.7	11.1
80°-90°	342.6	1.5
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°	22544.5	100.0
0°-180°	22544.5	100.0



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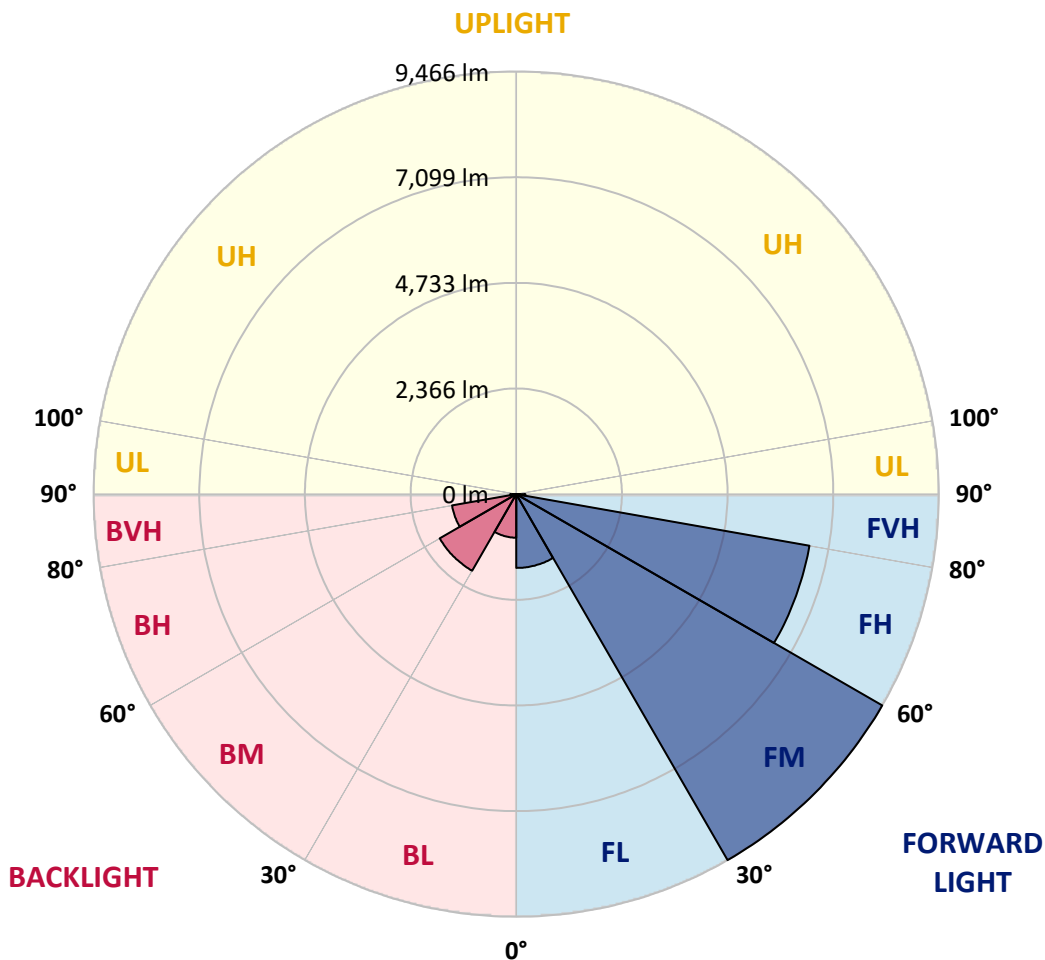
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.6	7.3			
FM (30°-60°)	9465.7	42.0			
FH (60°-80°)	6668.1	29.6			G3/7500
FVH (80°-90°)	205.5	0.9			G2/225
BL (0°-30°)	975.4	4.3	B2/1000		
BM (30°-60°)	1979.2	8.8	B2/2500		
BH (60°-80°)	1460.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7
2.5°	3027.8	3030.2	3030.2	3020.3	3022.8	3030.2	3003.0	2943.4	2943.4	2933.5	2916.2
5°	3213.7	3201.3	3184.0	3186.5	3176.5	3176.5	3146.8	3089.8	3040.2	3020.3	2968.2
7.5°	3238.5	3250.9	3248.5	3278.2	3293.1	3293.1	3308.0	3260.9	3186.5	3139.3	3087.3
10°	3288.1	3255.9	3253.4	3322.8	3345.2	3397.2	3456.8	3432.0	3370.0	3303.0	3233.6
12.5°	3317.9	3337.7	3337.7	3372.4	3424.5	3501.4	3605.5	3652.7	3555.9	3486.5	3379.9
15°	3362.5	3335.2	3414.6	3444.4	3543.5	3598.1	3746.9	3868.4	3803.9	3719.6	3551.0
17.5°	3382.4	3365.0	3409.6	3464.2	3632.8	3714.6	3895.7	4064.3	4009.7	3955.2	3781.6
20°	3484.0	3481.6	3501.4	3546.0	3667.5	3828.7	4054.4	4287.5	4307.3	4208.1	3972.5
22.5°	3732.0	3699.8	3699.8	3682.4	3734.5	3900.6	4205.6	4528.0	4617.3	4500.7	4188.3
25°	3960.1	4004.8	3977.5	3898.1	3878.3	3965.1	4314.7	4783.4	4902.4	4793.3	4480.9
27.5°	4252.7	4267.6	4314.7	4208.1	4071.7	4099.0	4433.8	4927.2	5172.7	5026.4	4647.0
30°	4674.3	4647.0	4637.1	4518.1	4339.5	4302.3	4570.2	5138.0	5527.3	5321.5	4842.9
32.5°	4959.5	5026.4	5023.9	4860.3	4644.5	4562.7	4738.8	5336.4	5906.7	5715.8	5205.0
35°	5524.9	5594.3	5539.7	5299.2	5046.3	4882.6	4981.8	5594.3	6340.7	6191.9	5512.5
37.5°	6246.5	6410.1	6293.6	5849.7	5492.6	5314.1	5319.0	5874.5	6784.6	6663.1	5842.3
40°	6744.9	6965.6	6804.4	6387.8	6008.4	5839.8	5772.8	6206.8	7315.2	7186.3	6358.0
42.5°	7362.3	7545.8	7461.5	7049.9	6606.0	6462.2	6328.3	6762.2	8126.1	8066.6	7020.1
45°	8036.8	8123.6	8096.3	7836.0	7342.5	7292.9	6997.8	7493.8	9080.8	9105.6	7848.4
47.5°	8664.2	8711.3	8763.4	8574.9	8267.4	8309.6	7769.0	8277.4	10008.2	10171.9	8770.8
50°	8825.4	8986.6	9108.1	9234.5	9301.5	9586.7	8619.6	9239.5	11074.5	11391.9	9797.4
52.5°	8661.7	8649.3	9018.8	9415.6	10085.1	10682.7	9777.6	10434.7	12016.8	12644.2	10737.3
55°	7917.8	7893.0	8488.1	9013.8	10320.7	11292.7	11431.6	12026.7	13155.0	13970.8	12009.4
57.5°	6615.9	6462.2	7111.9	7974.8	9809.8	11359.7	13093.0	14389.9	14905.7	15835.6	13951.0
60°	4446.2	4381.7	5004.1	6033.2	7964.9	10409.9	14087.4	17348.2	17373.0	18419.5	16963.9
62.5°	2737.6	2750.0	3149.3	3920.5	5576.9	8252.6	13658.4	19711.4	19716.4	20765.3	19443.6
65°	1790.4	1797.8	2120.2	2546.7	3484.0	5596.8	11295.2	19897.4	21345.6	22320.1	20579.3
66°	1594.5	1597.0	1874.7	2221.8	2886.4	4580.1	9976.0	19413.9	21712.6	22525.9	20564.5
67.5°	1344.0	1376.3	1599.4	1867.2	2251.6	3290.6	7915.3	18015.3	21524.1	22238.3	20098.3
70°	1051.4	1068.8	1244.8	1517.6	1688.7	1904.4	4704.1	14685.0	19701.5	20859.5	18402.1
72.5°	843.1	858.0	991.9	1232.4	1371.3	1254.7	2561.6	10655.4	15562.8	16797.7	14474.2
75°	711.7	714.2	778.6	969.6	1128.3	942.3	1363.9	6839.1	9985.9	10561.2	8867.5
77.5°	575.3	585.2	629.9	739.0	907.6	741.4	813.4	3831.2	5014.0	5056.2	4099.0
80°	468.7	473.6	500.9	538.1	691.8	548.0	550.5	1869.7	2149.9	2100.3	1666.4
82.5°	369.5	374.4	406.7	399.2	508.3	391.8	342.2	900.1	989.4	969.6	766.2
85°	208.3	208.3	319.9	319.9	322.4	248.0	208.3	424.0	523.2	488.5	359.6
87.5°	67.0	69.4	96.7	101.7	161.2	111.6	101.7	158.7	248.0	218.2	128.9
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°	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7
2.5°	2906.3	2866.6	2849.2	2792.2	2777.3	2740.1	2722.8	2700.4	2693.0	2660.8	2690.5
5°	2928.6	2916.2	2846.7	2774.8	2720.3	2695.5	2658.3	2608.7	2603.7	2559.1	2554.1
7.5°	3022.8	2980.6	2859.1	2782.3	2673.2	2611.2	2529.3	2504.5	2472.3	2457.4	2489.7
10°	3169.1	3062.5	2881.5	2688.0	2554.1	2479.7	2420.2	2402.9	2405.3	2395.4	2380.5
12.5°	3273.3	3171.6	2844.3	2608.7	2435.1	2363.2	2358.2	2375.6	2402.9	2390.5	2407.8
15°	3422.0	3231.1	2817.0	2477.3	2338.4	2318.6	2316.1	2368.1	2365.7	2365.7	2363.2
17.5°	3560.9	3290.6	2717.8	2363.2	2236.7	2251.6	2269.0	2266.5	2291.3	2301.2	2318.6
20°	3737.0	3360.0	2578.9	2249.1	2159.9	2154.9	2152.4	2154.9	2179.7	2194.6	2182.2
22.5°	3890.7	3374.9	2462.4	2140.0	2068.1	2048.3	2016.0	2048.3	2035.9	2040.8	2055.7
25°	4024.6	3377.4	2296.2	2058.2	1976.4	1931.7	1906.9	1904.4	1882.1	1879.6	1879.6
27.5°	4136.2	3293.1	2149.9	1944.1	1867.2	1825.1	1822.6	1795.3	1738.3	1701.1	1706.1
30°	4223.0	3228.6	2048.3	1844.9	1770.5	1763.1	1740.8	1678.8	1604.4	1557.3	1557.3
32.5°	4376.7	3099.7	1909.4	1743.3	1706.1	1696.1	1644.1	1589.5	1520.1	1475.4	1468.0
35°	4490.8	2980.6	1817.6	1656.5	1639.1	1619.3	1574.6	1515.1	1495.3	1485.4	1492.8
37.5°	4619.8	2846.7	1706.1	1582.1	1599.4	1562.2	1510.2	1482.9	1552.3	1535.0	1542.4
40°	4825.6	2752.5	1597.0	1537.4	1554.8	1512.6	1445.7	1435.8	1522.6	1460.6	1445.7
42.5°	5202.5	2750.0	1530.0	1470.5	1482.9	1450.6	1391.1	1386.2	1420.9	1346.5	1324.2
45°	5671.2	2836.8	1480.4	1420.9	1411.0	1406.0	1386.2	1363.9	1334.1	1237.4	1212.6
47.5°	6231.6	2978.2	1470.5	1346.5	1358.9	1401.1	1376.3	1319.2	1242.3	1180.4	1168.0
50°	6911.0	3270.8	1445.7	1291.9	1314.3	1381.2	1361.4	1282.0	1212.6	1172.9	1165.5
52.5°	7662.4	3640.3	1413.5	1207.6	1257.2	1363.9	1373.8	1299.4	1197.7	1163.0	1158.0
55°	8547.7	4185.8	1376.3	1115.9	1190.3	1346.5	1373.8	1249.8	1177.9	1177.9	1172.9
57.5°	10295.9	5167.8	1299.4	1031.6	1130.8	1314.3	1334.1	1252.3	1180.4	1180.4	1170.4
60°	12859.9	6700.2	1153.1	967.1	1073.7	1269.6	1304.3	1215.1	1153.1	1168.0	1165.5
62.5°	14866.0	7166.4	1029.1	905.1	1016.7	1187.8	1264.7	1175.4	1120.8	1175.4	1180.4
65°	15295.0	6695.3	902.6	838.2	937.3	1108.4	1207.6	1118.4	1073.7	1180.4	1185.3
66°	15141.3	6328.3	858.0	818.3	902.6	1068.8	1172.9	1098.5	1048.9	1175.4	1177.9
67.5°	14456.9	5777.8	808.4	776.2	855.5	1011.7	1133.2	1071.2	1009.3	1160.5	1138.2
70°	12969.0	4900.0	724.1	701.8	788.6	917.5	1041.5	1001.8	947.3	1068.8	1029.1
72.5°	9988.4	3915.5	634.8	637.3	711.7	820.8	949.7	922.5	875.3	937.3	912.5
75°	6082.8	2502.1	553.0	557.9	619.9	729.0	862.9	843.1	786.1	820.8	808.4
77.5°	2695.5	1239.9	466.2	476.1	525.7	642.3	751.4	719.1	659.6	667.0	662.1
80°	1046.4	587.7	379.4	391.8	424.0	513.3	622.4	592.7	540.6	530.7	525.7
82.5°	503.4	327.3	292.6	297.6	310.0	409.2	535.6	498.4	429.0	384.4	384.4
85°	252.9	203.3	205.8	188.5	205.8	277.7	362.0	302.5	250.5	223.2	228.1
87.5°	101.7	101.7	101.7	86.8	91.8	131.4	168.6	114.1	104.1	62.0	62.0
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)