

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: P476465

Luminaire Tested: **IFLD-L-SA7A-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

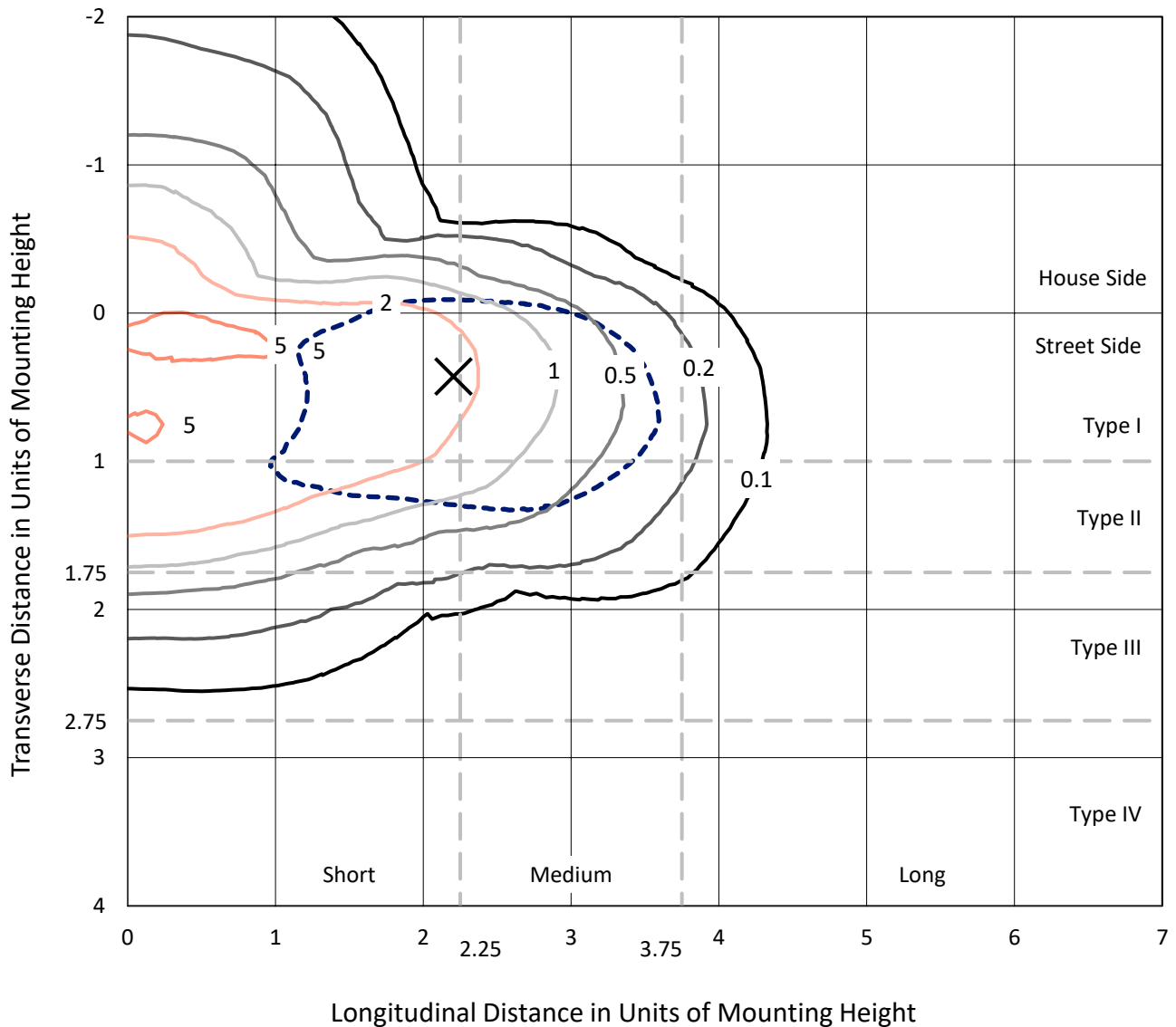
Lumens per Lamp: N/A
Luminaire Lumens: 23028.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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

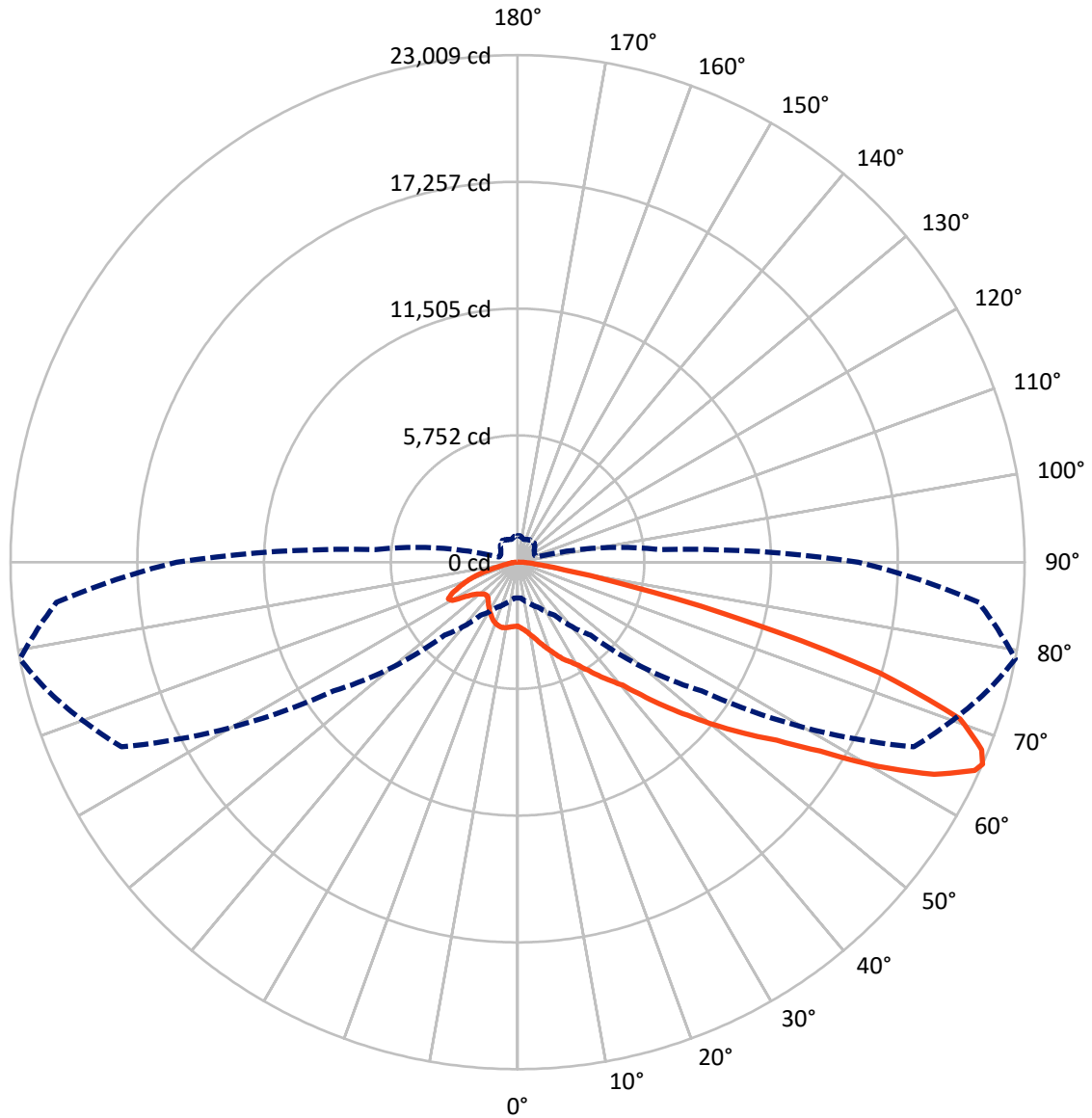
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	4650.2	0.0	4650.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18377.9	0.0	18377.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	23028.1	0.0	23028.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.2
10°-20°	882.9	3.8
20°-30°	1515.6	6.6
30°-40°	2341.2	10.2
40°-50°	3750.1	16.3
50°-60°	5599.1	24.3
60°-70°	5753.1	25.0
70°-80°	2550.3	11.1
80°-90°	349.9	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°	23028.1	100.0
0°-180°	23028.1	100.0

Coefficient of Utilization



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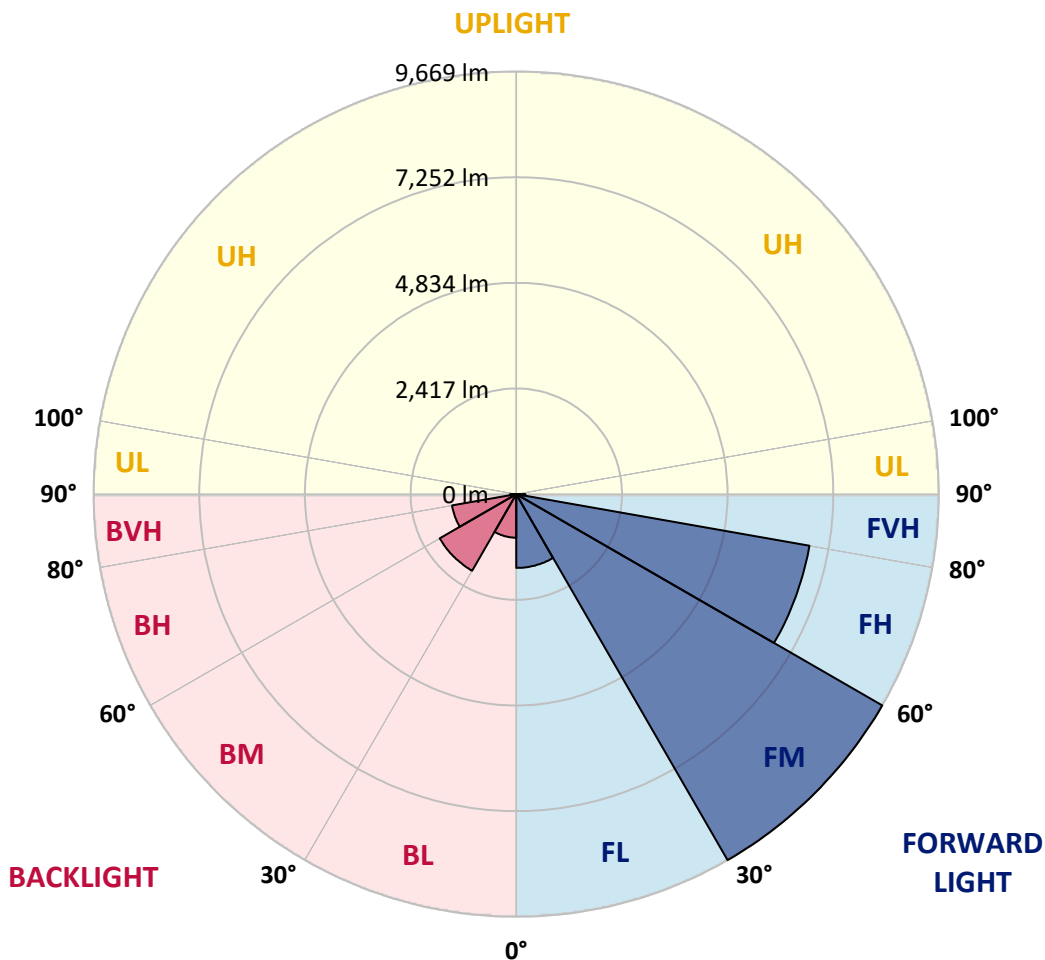
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.1	7.3			
FM (30°-60°)	9668.7	42.0			
FH (60°-80°)	6811.2	29.6			G3/7500
FVH (80°-90°)	209.9	0.9			G2/225
BL (0°-30°)	996.3	4.3	B2/1000		
BM (30°-60°)	2021.7	8.8	B2/2500		
BH (60°-80°)	1492.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	140.0	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°	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8
2.5°	3092.7	3095.3	3095.3	3085.1	3087.7	3095.3	3067.4	3006.6	3006.6	2996.5	2978.7
5°	3282.7	3270.0	3252.3	3254.8	3244.7	3244.7	3214.3	3156.0	3105.4	3085.1	3031.9
7.5°	3308.0	3320.7	3318.2	3348.5	3363.7	3363.7	3378.9	3330.8	3254.8	3206.7	3153.5
10°	3358.7	3325.8	3323.2	3394.1	3416.9	3470.1	3530.9	3505.6	3442.3	3373.9	3303.0
12.5°	3389.1	3409.3	3409.3	3444.8	3498.0	3576.5	3682.9	3731.0	3632.2	3561.3	3452.4
15°	3434.7	3406.8	3487.9	3518.3	3619.6	3675.3	3827.3	3951.4	3885.5	3799.4	3627.2
17.5°	3454.9	3437.2	3482.8	3538.5	3710.8	3794.3	3979.2	4151.5	4095.8	4040.0	3862.7
20°	3558.8	3556.2	3576.5	3622.1	3746.2	3910.9	4141.4	4379.5	4399.7	4298.4	4057.8
22.5°	3812.1	3779.1	3779.1	3761.4	3814.6	3984.3	4295.9	4625.1	4716.3	4597.3	4278.1
25°	4045.1	4090.7	4062.8	3981.8	3961.5	4050.2	4407.3	4886.0	5007.6	4896.2	4577.0
27.5°	4344.0	4359.2	4407.3	4298.4	4159.1	4186.9	4528.9	5033.0	5283.7	5134.3	4746.7
30°	4774.6	4746.7	4736.6	4615.0	4432.6	4394.7	4668.2	5248.3	5645.9	5435.7	4946.8
32.5°	5065.9	5134.3	5131.7	4964.6	4744.2	4660.6	4840.4	5450.9	6033.5	5838.4	5316.6
35°	5643.4	5714.3	5658.6	5412.9	5154.5	4987.4	5088.7	5714.3	6476.7	6324.8	5630.7
37.5°	6380.5	6547.7	6428.6	5975.2	5610.5	5428.1	5433.2	6000.5	6930.1	6806.0	5967.6
40°	6889.6	7115.0	6950.4	6524.9	6137.3	5965.1	5896.7	6339.9	7472.2	7340.5	6494.5
42.5°	7520.3	7707.7	7621.6	7201.1	6747.8	6600.8	6464.1	6907.3	8300.4	8239.7	7170.8
45°	8209.3	8297.9	8270.0	8004.1	7500.0	7449.4	7148.0	7654.5	9275.6	9301.0	8016.8
47.5°	8850.1	8898.2	8951.4	8758.9	8444.8	8487.9	7935.7	8455.0	10222.9	10390.1	8959.0
50°	9014.7	9179.4	9303.5	9432.7	9501.1	9792.3	8804.5	9437.7	11312.1	11636.3	10007.6
52.5°	8847.6	8834.9	9212.3	9617.6	10301.5	10911.9	9987.4	10658.6	12274.6	12915.5	10967.6
55°	8087.7	8062.3	8670.3	9207.2	10542.1	11535.0	11676.9	12284.8	13437.2	14270.6	12267.0
57.5°	6757.9	6600.8	7264.5	8145.9	10020.3	11603.4	13373.9	14698.7	15225.5	16175.4	14250.3
60°	4541.6	4475.7	5111.5	6162.6	8135.8	10633.3	14389.6	17720.4	17745.8	18814.7	17327.8
62.5°	2796.4	2809.0	3216.8	4004.6	5696.6	8429.6	13951.4	20134.3	20139.4	21210.8	19860.8
65°	1828.8	1836.4	2165.7	2601.3	3558.8	5716.8	11537.5	20324.3	21803.5	22799.0	21020.9
66°	1628.7	1631.2	1914.9	2269.5	2948.3	4678.3	10190.0	19830.4	22178.4	23009.2	21005.7
67.5°	1372.9	1405.8	1633.7	1907.3	2299.9	3361.2	8085.1	18401.8	21985.9	22715.4	20529.5
70°	1074.0	1091.7	1271.5	1550.2	1724.9	1945.3	4805.0	15000.1	20124.2	21307.1	18796.9
72.5°	861.2	876.4	1013.2	1258.9	1400.7	1281.7	2616.5	10884.0	15896.7	17158.1	14784.8
75°	727.0	729.5	795.3	990.4	1152.5	962.5	1393.1	6985.8	10200.1	10787.8	9057.8
77.5°	587.6	597.8	643.4	754.8	927.1	757.3	830.8	3913.4	5121.6	5164.7	4186.9
80°	478.7	483.8	511.7	549.6	706.7	559.8	562.3	1909.8	2196.1	2145.4	1702.1
82.5°	377.4	382.5	415.4	407.8	519.3	400.2	349.5	919.5	1010.6	990.4	782.7
85°	212.8	212.8	326.7	326.7	329.3	253.3	212.8	433.1	534.5	499.0	367.3
87.5°	68.4	70.9	98.8	103.9	164.6	114.0	103.9	162.1	253.3	222.9	131.7
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°	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8
2.5°	2968.6	2928.1	2910.3	2852.1	2836.9	2798.9	2781.2	2758.4	2750.8	2717.8	2748.2
5°	2991.4	2978.7	2907.8	2834.4	2778.6	2753.3	2715.3	2664.7	2659.6	2614.0	2608.9
7.5°	3087.7	3044.6	2920.5	2842.0	2730.5	2667.2	2583.6	2558.3	2525.3	2510.1	2543.1
10°	3237.1	3128.2	2943.3	2745.7	2608.9	2532.9	2472.1	2454.4	2457.0	2446.8	2431.6
12.5°	3343.5	3239.6	2905.3	2664.7	2487.3	2413.9	2408.8	2426.6	2454.4	2441.8	2459.5
15°	3495.5	3300.4	2877.4	2530.4	2388.6	2368.3	2365.8	2419.0	2416.4	2416.4	2413.9
17.5°	3637.3	3361.2	2776.1	2413.9	2284.7	2299.9	2317.6	2315.1	2340.4	2350.6	2368.3
20°	3817.1	3432.1	2634.3	2297.4	2206.2	2201.1	2198.6	2201.1	2226.5	2241.7	2229.0
22.5°	3974.2	3447.3	2515.2	2185.9	2112.5	2092.2	2059.3	2092.2	2079.5	2084.6	2099.8
25°	4111.0	3449.9	2345.5	2102.3	2018.8	1973.2	1947.8	1945.3	1922.5	1920.0	1920.0
27.5°	4224.9	3363.7	2196.1	1985.8	1907.3	1864.2	1861.7	1833.8	1775.6	1737.6	1742.7
30°	4313.6	3297.9	2092.2	1884.5	1808.5	1800.9	1778.1	1714.8	1638.8	1590.7	1590.7
32.5°	4470.6	3166.2	1950.4	1780.7	1742.7	1732.5	1679.3	1623.6	1552.7	1507.1	1499.5
35°	4587.2	3044.6	1856.6	1692.0	1674.3	1654.0	1608.4	1547.6	1527.4	1517.2	1524.8
37.5°	4718.9	2907.8	1742.7	1616.0	1633.7	1595.8	1542.6	1514.7	1585.6	1567.9	1575.5
40°	4929.1	2811.6	1631.2	1570.4	1588.2	1545.1	1476.7	1466.6	1555.2	1491.9	1476.7
42.5°	5314.1	2809.0	1562.8	1502.0	1514.7	1481.8	1421.0	1415.9	1451.4	1375.4	1352.6
45°	5792.8	2897.7	1512.2	1451.4	1441.2	1436.2	1415.9	1393.1	1362.7	1263.9	1238.6
47.5°	6365.3	3042.1	1502.0	1375.4	1388.1	1431.1	1405.8	1347.5	1269.0	1205.7	1193.0
50°	7059.3	3340.9	1476.7	1319.7	1342.5	1410.8	1390.6	1309.5	1238.6	1198.1	1190.5
52.5°	7826.8	3718.4	1443.8	1233.5	1284.2	1393.1	1403.2	1327.3	1223.4	1187.9	1182.9
55°	8731.0	4275.6	1405.8	1139.8	1215.8	1375.4	1403.2	1276.6	1203.1	1203.1	1198.1
57.5°	10516.8	5278.6	1327.3	1053.7	1155.0	1342.5	1362.7	1279.1	1205.7	1205.7	1195.5
60°	13135.8	6844.0	1177.8	987.8	1096.8	1296.9	1332.3	1241.1	1177.8	1193.0	1190.5
62.5°	15185.0	7320.2	1051.2	924.5	1038.5	1213.3	1291.8	1200.6	1144.9	1200.6	1205.7
65°	15623.2	6838.9	922.0	856.1	957.5	1132.2	1233.5	1142.4	1096.8	1205.7	1210.7
66°	15466.1	6464.1	876.4	835.9	922.0	1091.7	1198.1	1122.1	1071.4	1200.6	1203.1
67.5°	14767.0	5901.8	825.7	792.8	873.9	1033.4	1157.6	1094.2	1030.9	1185.4	1162.6
70°	13247.3	5005.1	739.6	716.8	805.5	937.2	1063.8	1023.3	967.6	1091.7	1051.2
72.5°	10202.7	3999.5	648.4	651.0	727.0	838.4	970.1	942.3	894.1	957.5	932.1
75°	6213.3	2555.7	564.8	569.9	633.2	744.7	881.5	861.2	802.9	838.4	825.7
77.5°	2753.3	1266.5	476.2	486.3	537.0	656.0	767.5	734.6	673.8	681.4	676.3
80°	1068.9	600.3	387.5	400.2	433.1	524.3	635.8	605.4	552.2	542.0	537.0
82.5°	514.2	334.3	298.9	304.0	316.6	417.9	547.1	509.1	438.2	392.6	392.6
85°	258.4	207.7	210.2	192.5	210.2	283.7	369.8	309.0	255.8	228.0	233.0
87.5°	103.9	103.9	103.9	88.7	93.7	134.2	172.2	116.5	106.4	63.3	63.3
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)