

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: P476459

Luminaire Tested: **IFLD-S-SA6E-722-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

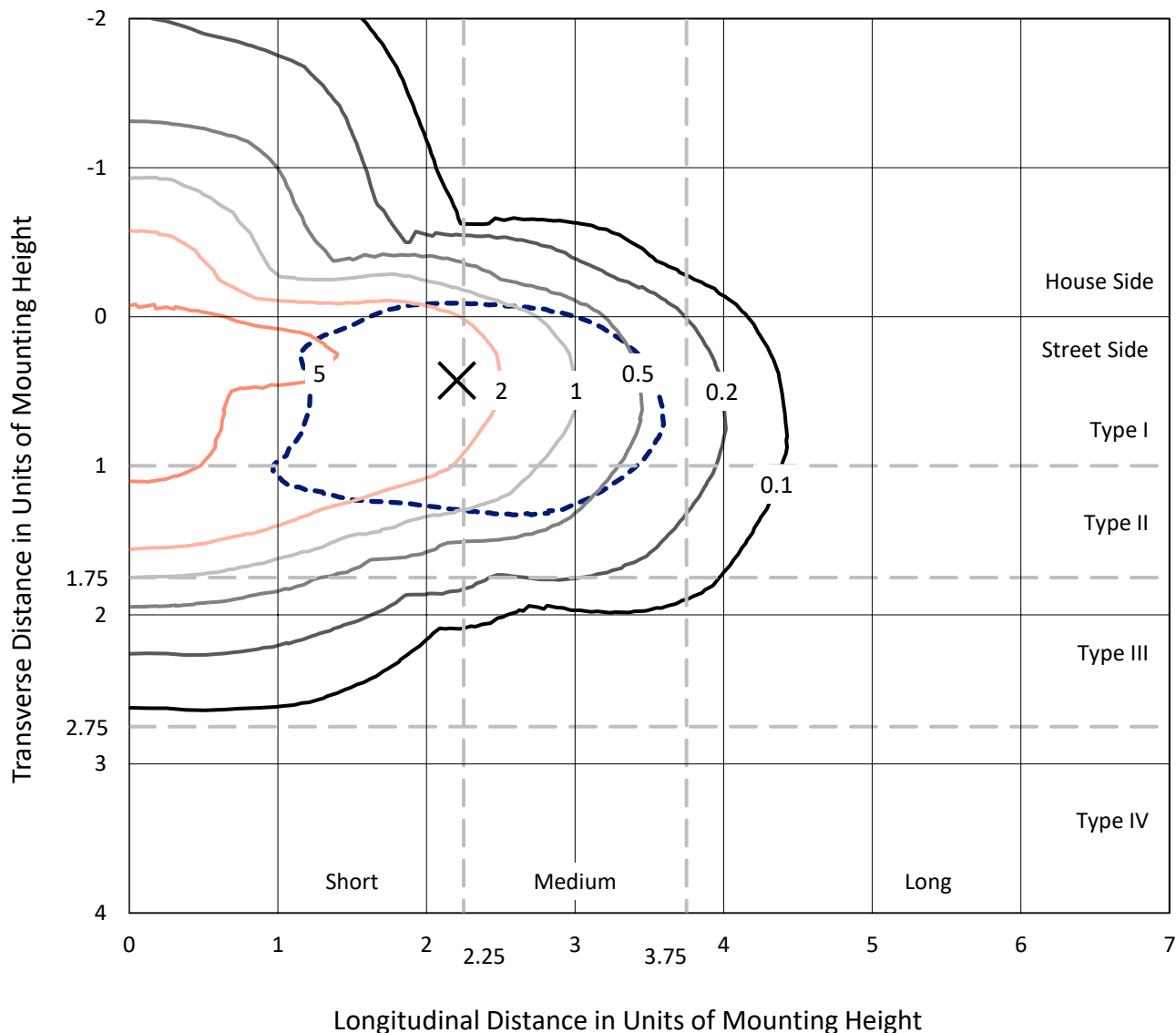
Lumens per Lamp: N/A
Luminaire Lumens: 38928.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 464.2
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

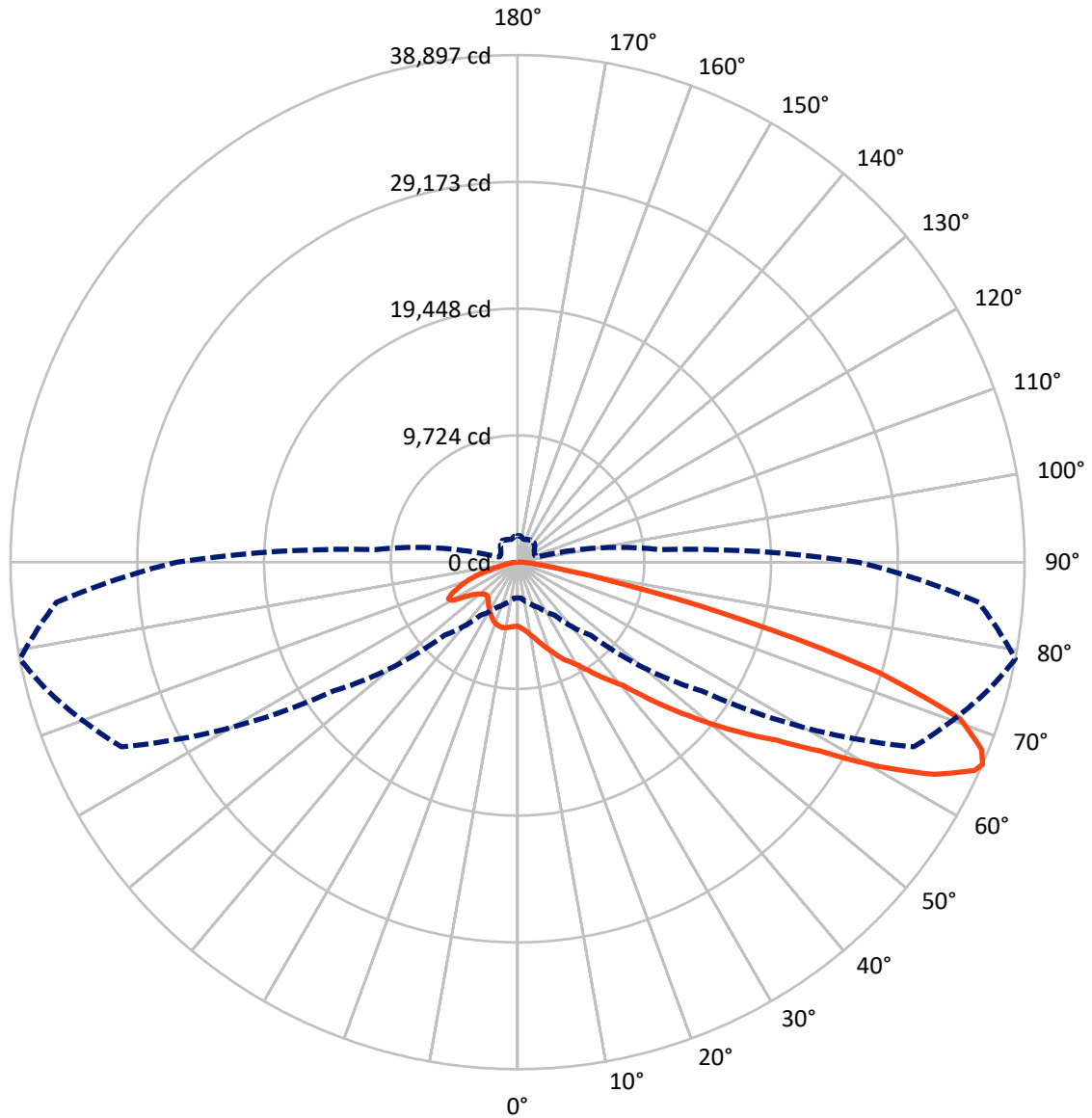
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	7861.1	0.0	7861.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	31067.6	0.0	31067.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	38928.7	0.0	38928.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.3	1.2
10°-20°	1492.6	3.8
20°-30°	2562.0	6.6
30°-40°	3957.8	10.2
40°-50°	6339.4	16.3
50°-60°	9465.2	24.3
60°-70°	9725.5	25.0
70°-80°	4311.2	11.1
80°-90°	591.5	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°	38928.7	100.0
0°-180°	38928.7	100.0

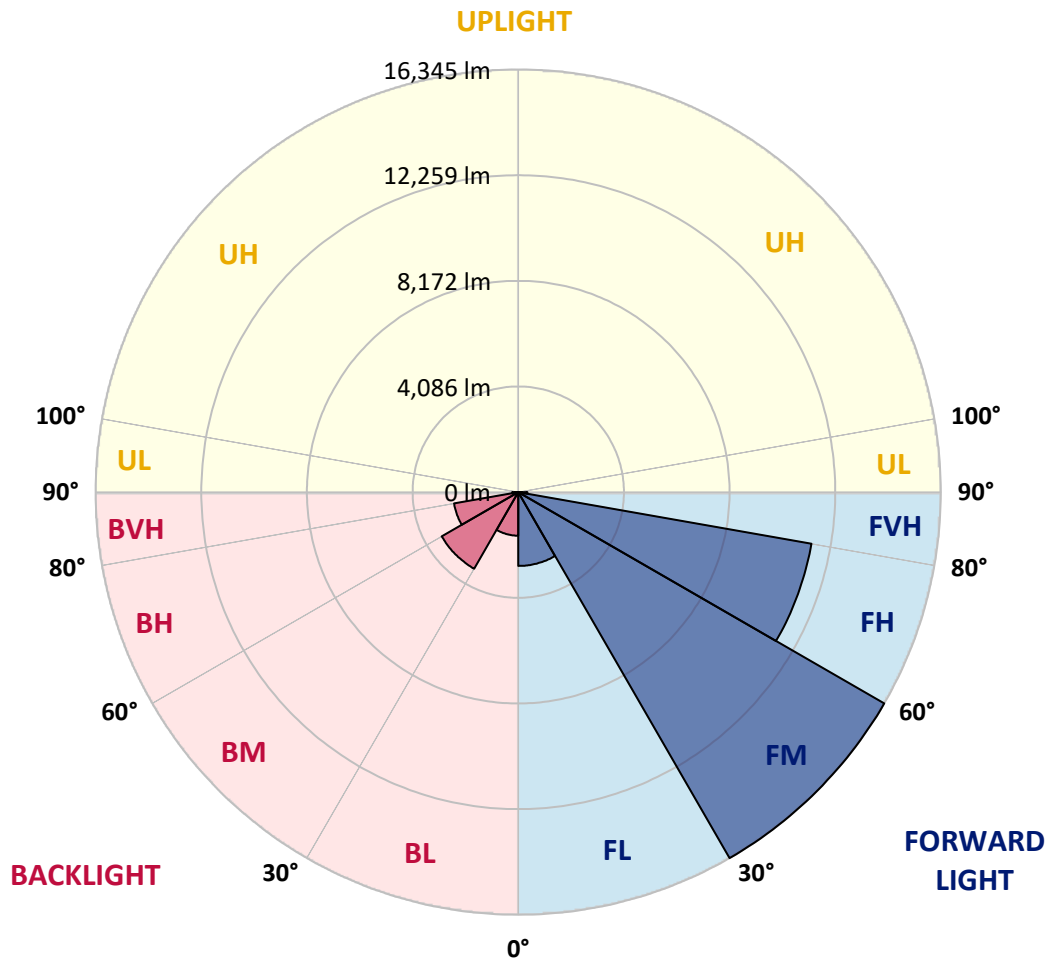


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.7	7.3			
FM (30°-60°)	16344.8	42.0			
FH (60°-80°)	11514.2	29.6			G4/12000
FVH (80°-90°)	354.8	0.9			G3/500
BL (0°-30°)	1684.2	4.3	B3/2500		
BM (30°-60°)	3417.7	8.8	B3/5000		
BH (60°-80°)	2522.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	236.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6
2.5°	5228.2	5232.5	5232.5	5215.3	5219.6	5232.5	5185.4	5082.6	5082.6	5065.5	5035.5
5°	5549.3	5527.9	5497.9	5502.2	5485.1	5485.1	5433.7	5335.2	5249.6	5215.3	5125.4
7.5°	5592.1	5613.6	5609.3	5660.7	5686.3	5686.3	5712.0	5630.7	5502.2	5420.9	5331.0
10°	5677.8	5622.1	5617.8	5737.7	5776.3	5866.2	5969.0	5926.1	5819.1	5703.5	5583.6
12.5°	5729.2	5763.4	5763.4	5823.4	5913.3	6046.0	6225.9	6307.2	6140.2	6020.3	5836.2
15°	5806.2	5759.1	5896.2	5947.5	6118.8	6213.0	6469.9	6679.7	6568.4	6422.8	6131.7
17.5°	5840.5	5810.5	5887.6	5981.8	6273.0	6414.3	6726.8	7018.0	6923.8	6829.6	6529.9
20°	6016.1	6011.8	6046.0	6123.1	6332.9	6611.2	7000.9	7403.4	7437.6	7266.4	6859.6
22.5°	6444.2	6388.6	6388.6	6358.6	6448.5	6735.4	7262.1	7818.7	7972.9	7771.6	7232.1
25°	6838.2	6915.3	6868.2	6731.1	6696.9	6846.7	7450.5	8259.8	8465.3	8276.9	7737.4
27.5°	7343.4	7369.1	7450.5	7266.4	7030.9	7078.0	7656.0	8508.1	8932.0	8679.4	8024.3
30°	8071.4	8024.3	8007.1	7801.6	7493.3	7429.1	7891.5	8872.1	9544.3	9188.9	8362.5
32.5°	8563.8	8679.4	8675.1	8392.5	8020.0	7878.7	8182.7	9214.6	10199.5	9869.8	8987.7
35°	9540.1	9659.9	9565.7	9150.4	8713.6	8431.0	8602.3	9659.9	10948.8	10691.9	9518.6
37.5°	10786.1	11068.7	10867.4	10101.0	9484.4	9176.1	9184.7	10143.8	11715.3	11505.4	10088.1
40°	11646.7	12027.8	11749.5	11030.1	10375.0	10083.9	9968.2	10717.6	12631.6	12408.9	10978.8
42.5°	12712.9	13029.8	12884.2	12173.4	11407.0	11158.6	10927.4	11676.7	14031.8	13929.0	12122.0
45°	13877.6	14027.5	13980.4	13530.8	12678.7	12593.0	12083.5	12939.9	15680.3	15723.1	13552.2
47.5°	14960.9	15042.3	15132.2	14806.8	14275.8	14348.6	13415.2	14292.9	17281.7	17564.3	15145.0
50°	15239.2	15517.6	15727.4	15945.8	16061.4	16553.8	14883.8	15954.3	19122.9	19671.0	16917.7
52.5°	14956.6	14935.2	15573.2	16258.3	17414.4	18446.4	16883.5	18018.2	20750.0	21833.4	18540.6
55°	13672.1	13629.3	14656.9	15564.7	17821.2	19499.7	19739.5	20767.2	22715.4	24124.2	20737.2
57.5°	11424.1	11158.6	12280.5	13770.6	16939.2	19615.3	22608.4	24847.8	25738.4	27344.1	24089.9
60°	7677.4	7566.1	8640.9	10417.8	13753.4	17975.4	24325.4	29956.1	29998.9	31805.9	29292.4
62.5°	4727.2	4748.6	5438.0	6769.7	9630.0	14250.1	23584.6	34036.7	34045.3	35856.5	33574.3
65°	3091.5	3104.4	3661.0	4397.5	6016.1	9664.2	19504.0	34357.9	36858.5	38541.3	35535.4
66°	2753.3	2757.5	3237.1	3836.6	4984.1	7908.7	17226.0	33522.9	37492.2	38896.7	35509.7
67.5°	2320.8	2376.4	2761.8	3224.3	3888.0	5682.1	13667.8	31107.9	37166.8	38400.0	34704.7
70°	1815.5	1845.5	2149.5	2620.5	2916.0	3288.5	8122.7	25357.4	34019.6	36019.3	31775.9
72.5°	1455.8	1481.5	1712.8	2128.1	2367.9	2166.6	4423.2	18399.3	26873.1	29005.5	24993.4
75°	1228.9	1233.2	1344.5	1674.2	1948.3	1627.1	2355.0	11809.5	17243.2	18236.6	15312.0
77.5°	993.4	1010.5	1087.6	1276.0	1567.2	1280.3	1404.5	6615.5	8658.0	8730.8	7078.0
80°	809.3	817.8	864.9	929.2	1194.6	946.3	950.6	3228.5	3712.4	3626.8	2877.4
82.5°	638.0	646.6	702.2	689.4	877.8	676.5	590.9	1554.3	1708.5	1674.2	1323.1
85°	359.7	359.7	552.4	552.4	556.6	428.2	359.7	732.2	903.5	843.5	620.9
87.5°	115.6	119.9	167.0	175.6	278.3	192.7	175.6	274.0	428.2	376.8	222.7
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°	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6	4915.6
2.5°	5018.4	4949.9	4919.9	4821.4	4795.7	4731.5	4701.5	4663.0	4650.1	4594.5	4645.9
5°	5056.9	5035.5	4915.6	4791.4	4697.2	4654.4	4590.2	4504.5	4496.0	4418.9	4410.3
7.5°	5219.6	5146.8	4937.0	4804.3	4615.9	4508.8	4367.5	4324.7	4269.0	4243.4	4299.0
10°	5472.3	5288.1	4975.6	4641.6	4410.3	4281.9	4179.1	4149.2	4153.4	4136.3	4110.6
12.5°	5652.1	5476.5	4911.3	4504.5	4204.8	4080.6	4072.1	4102.1	4149.2	4127.7	4157.7
15°	5909.0	5579.3	4864.2	4277.6	4037.8	4003.6	3999.3	4089.2	4084.9	4084.9	4080.6
17.5°	6148.8	5682.1	4693.0	4080.6	3862.3	3888.0	3917.9	3913.6	3956.5	3973.6	4003.6
20°	6452.8	5802.0	4453.2	3883.7	3729.5	3721.0	3716.7	3721.0	3763.8	3789.5	3768.1
22.5°	6718.3	5827.7	4251.9	3695.3	3571.1	3536.8	3481.2	3536.8	3515.4	3524.0	3549.7
25°	6949.5	5831.9	3965.0	3554.0	3412.7	3335.6	3292.8	3288.5	3250.0	3245.7	3245.7
27.5°	7142.2	5686.3	3712.4	3357.0	3224.3	3151.5	3147.2	3100.1	3001.6	2937.4	2945.9
30°	7292.1	5575.0	3536.8	3185.7	3057.3	3044.4	3005.9	2898.8	2770.4	2689.0	2689.0
32.5°	7557.5	5352.4	3297.1	3010.2	2945.9	2928.8	2838.9	2744.7	2624.8	2547.7	2534.9
35°	7754.5	5146.8	3138.6	2860.3	2830.3	2796.1	2719.0	2616.2	2582.0	2564.9	2577.7
37.5°	7977.2	4915.6	2945.9	2731.8	2761.8	2697.6	2607.7	2560.6	2680.5	2650.5	2663.3
40°	8332.6	4752.9	2757.5	2654.8	2684.7	2612.0	2496.3	2479.2	2629.1	2522.0	2496.3
42.5°	8983.4	4748.6	2641.9	2539.2	2560.6	2504.9	2402.1	2393.6	2453.5	2325.1	2286.5
45°	9792.7	4898.5	2556.3	2453.5	2436.4	2427.8	2393.6	2355.0	2303.7	2136.7	2093.8
47.5°	10760.4	5142.5	2539.2	2325.1	2346.5	2419.3	2376.4	2278.0	2145.2	2038.2	2016.8
50°	11933.6	5647.8	2496.3	2230.9	2269.4	2385.0	2350.8	2213.7	2093.8	2025.3	2012.5
52.5°	13231.0	6285.8	2440.7	2085.3	2170.9	2355.0	2372.2	2243.7	2068.2	2008.2	1999.6
55°	14759.7	7227.8	2376.4	1926.9	2055.3	2325.1	2372.2	2158.1	2033.9	2033.9	2025.3
57.5°	17778.4	8923.5	2243.7	1781.3	1952.5	2269.4	2303.7	2162.4	2038.2	2038.2	2021.1
60°	22205.9	11569.7	1991.1	1669.9	1854.1	2192.3	2252.3	2098.1	1991.1	2016.8	2012.5
62.5°	25669.9	12374.7	1777.0	1562.9	1755.6	2051.0	2183.8	2029.6	1935.4	2029.6	2038.2
65°	26410.7	11561.1	1558.6	1447.3	1618.6	1914.0	2085.3	1931.1	1854.1	2038.2	2046.7
66°	26145.2	10927.4	1481.5	1413.0	1558.6	1845.5	2025.3	1896.9	1811.2	2029.6	2033.9
67.5°	24963.4	9976.8	1395.9	1340.2	1477.3	1747.0	1956.8	1849.8	1742.7	2003.9	1965.4
70°	22394.3	8461.0	1250.3	1211.8	1361.6	1584.3	1798.4	1729.9	1635.7	1845.5	1777.0
72.5°	17247.5	6761.1	1096.2	1100.4	1228.9	1417.3	1640.0	1592.9	1511.5	1618.6	1575.7
75°	10503.5	4320.4	954.9	963.4	1070.5	1258.9	1490.1	1455.8	1357.4	1417.3	1395.9
77.5°	4654.4	2140.9	805.0	822.1	907.8	1109.0	1297.4	1241.7	1139.0	1151.8	1143.3
80°	1807.0	1014.8	655.1	676.5	732.2	886.4	1074.8	1023.4	933.5	916.3	907.8
82.5°	869.2	565.2	505.3	513.8	535.2	706.5	924.9	860.7	740.8	663.7	663.7
85°	436.8	351.1	355.4	325.4	355.4	479.6	625.2	522.4	432.5	385.4	393.9
87.5°	175.6	175.6	175.6	149.9	158.4	226.9	291.2	197.0	179.8	107.0	107.0
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)