

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: P476728

Luminaire Tested: **IFLD-S-SA6A-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

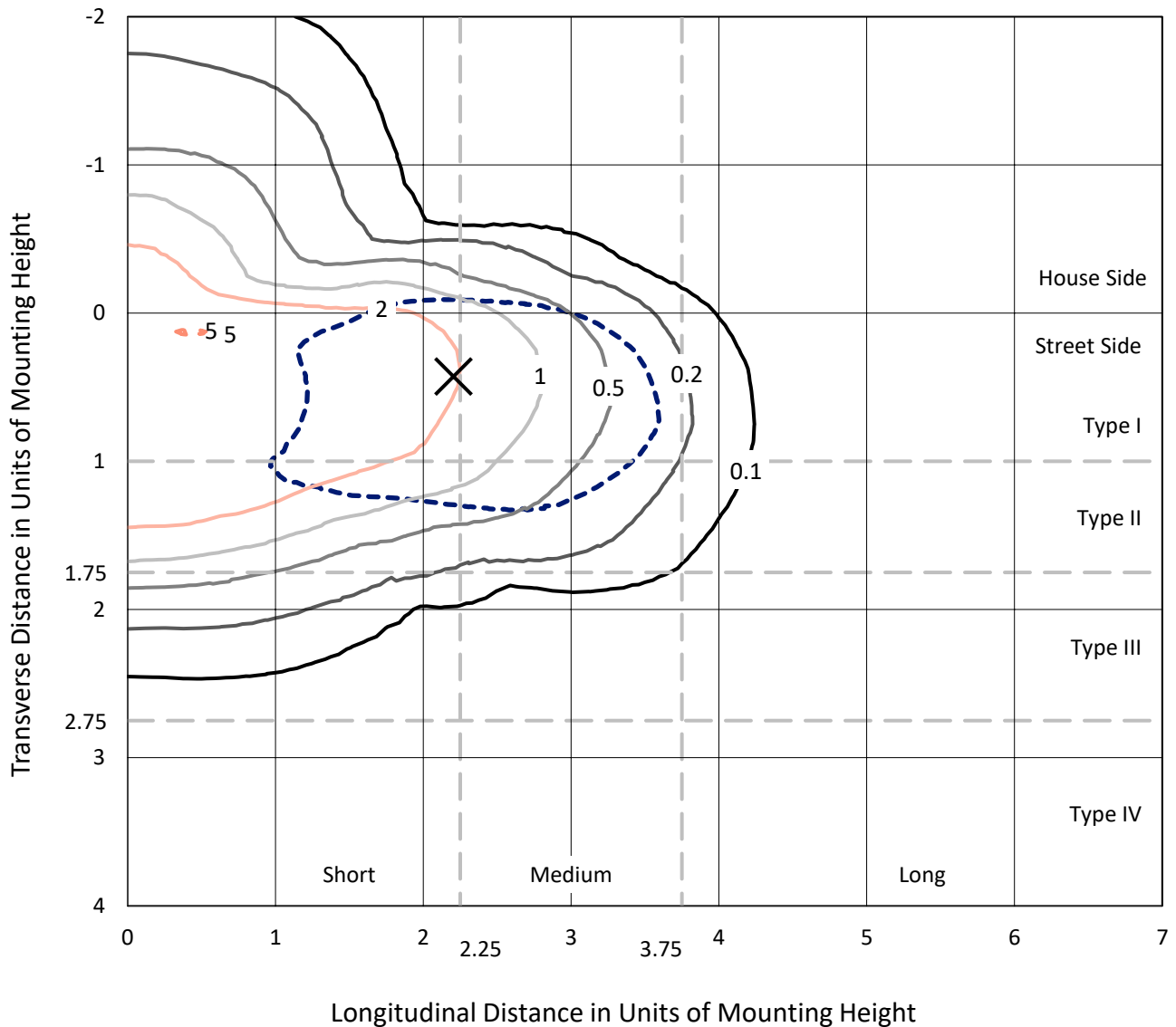
Lumens per Lamp: N/A
Luminaire Lumens: 19816.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

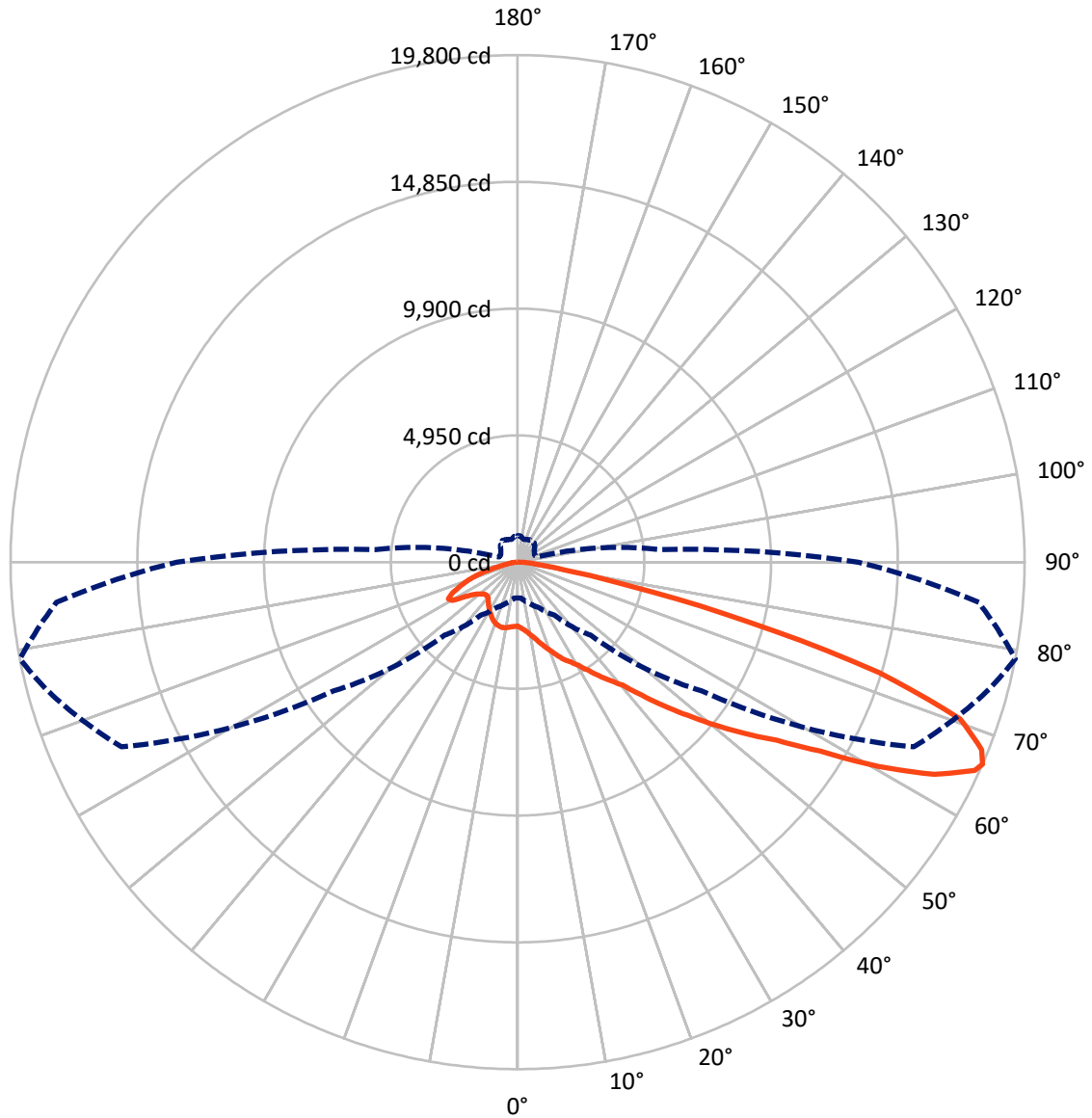
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4001.6	0.0	4001.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15814.7	0.0	15814.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	19816.4	0.0	19816.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	1.2
10°-20°	759.8	3.8
20°-30°	1304.2	6.6
30°-40°	2014.7	10.2
40°-50°	3227.0	16.3
50°-60°	4818.2	24.3
60°-70°	4950.7	25.0
70°-80°	2194.6	11.1
80°-90°	301.1	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°	19816.4	100.0
0°-180°	19816.4	100.0



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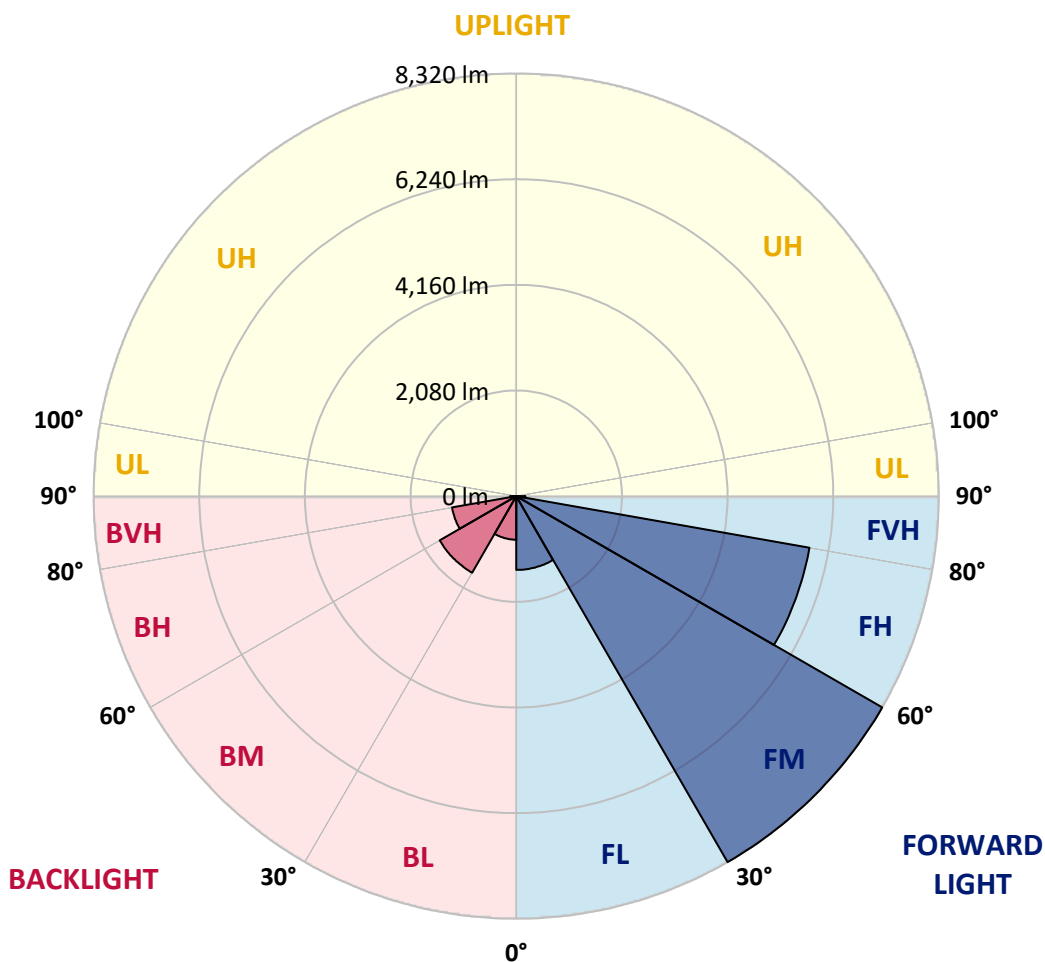
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.7	7.3			
FM (30°-60°)	8320.2	42.0			
FH (60°-80°)	5861.2	29.6			G3/7500
FVH (80°-90°)	180.6	0.9			G2/225
BL (0°-30°)	857.3	4.3	B2/1000		
BM (30°-60°)	1739.7	8.8	B2/2500		
BH (60°-80°)	1284.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	120.5	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°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	2661.4	2663.6	2663.6	2654.8	2657.0	2663.6	2639.6	2587.3	2587.3	2578.5	2563.3
5°	2824.8	2813.9	2798.7	2800.9	2792.2	2792.2	2766.0	2715.9	2672.3	2654.8	2609.1
7.5°	2846.6	2857.5	2855.4	2881.5	2894.6	2894.6	2907.7	2866.3	2800.9	2759.5	2713.7
10°	2890.2	2861.9	2859.7	2920.8	2940.4	2986.1	3038.5	3016.7	2962.2	2903.3	2842.3
12.5°	2916.4	2933.8	2933.8	2964.3	3010.1	3077.7	3169.2	3210.6	3125.6	3064.6	2970.9
15°	2955.6	2931.7	3001.4	3027.6	3114.7	3162.7	3293.5	3400.3	3343.6	3269.5	3121.3
17.5°	2973.1	2957.8	2997.0	3045.0	3193.2	3265.1	3424.3	3572.5	3524.5	3476.6	3324.0
20°	3062.4	3060.3	3077.7	3116.9	3223.7	3365.4	3563.8	3768.6	3786.1	3698.9	3491.8
22.5°	3280.4	3252.1	3252.1	3236.8	3282.6	3428.6	3696.7	3980.1	4058.5	3956.1	3681.5
25°	3480.9	3520.2	3496.2	3426.4	3409.0	3485.3	3792.6	4204.6	4309.2	4213.3	3938.7
27.5°	3738.1	3751.2	3792.6	3698.9	3579.0	3603.0	3897.2	4331.0	4546.8	4418.2	4084.7
30°	4108.7	4084.7	4076.0	3971.4	3814.4	3781.7	4017.1	4516.3	4858.5	4677.6	4256.9
32.5°	4359.3	4418.2	4416.0	4272.1	4082.5	4010.6	4165.3	4690.6	5192.0	5024.1	4575.1
35°	4856.3	4917.3	4869.4	4657.9	4435.6	4291.8	4378.9	4917.3	5573.4	5442.6	4845.4
37.5°	5490.6	5634.4	5532.0	5141.8	4828.0	4671.0	4675.4	5163.6	5963.6	5856.8	5135.3
40°	5928.7	6122.7	5981.0	5614.8	5281.3	5133.1	5074.3	5455.7	6430.0	6316.7	5588.7
42.5°	6471.4	6632.7	6558.6	6196.8	5806.6	5680.2	5562.5	5943.9	7142.8	7090.5	6170.6
45°	7064.3	7140.6	7116.6	6887.7	6454.0	6410.4	6151.0	6587.0	7981.9	8003.7	6898.6
47.5°	7615.8	7657.2	7702.9	7537.3	7267.0	7304.1	6828.9	7275.7	8797.1	8941.0	7709.5
50°	7757.4	7899.1	8005.9	8117.1	8175.9	8426.6	7576.5	8121.4	9734.4	10013.4	8611.9
52.5°	7613.6	7602.7	7927.4	8276.2	8864.7	9390.0	8594.4	9172.0	10562.7	11114.1	9438.0
55°	6959.7	6937.9	7461.0	7923.1	9071.8	9926.2	10048.3	10571.4	11563.1	12280.2	10556.1
57.5°	5815.3	5680.2	6251.3	7009.8	8622.8	9985.1	11508.6	12648.6	13102.0	13919.3	12262.8
60°	3908.1	3851.5	4398.6	5303.1	7001.1	9150.2	12382.7	15248.9	15270.7	16190.6	14911.1
62.5°	2406.4	2417.2	2768.2	3446.1	4902.1	7253.9	12005.6	17326.2	17330.5	18252.5	17090.8
65°	1573.7	1580.3	1863.6	2238.5	3062.4	4919.5	9928.4	17489.6	18762.6	19619.2	18089.0
66°	1401.5	1403.7	1647.8	1953.0	2537.1	4025.8	8768.8	17064.6	19085.2	19800.1	18076.0
67.5°	1181.4	1209.7	1405.9	1641.3	1979.1	2892.4	6957.5	15835.3	18919.5	19547.2	17666.2
70°	924.2	939.4	1094.2	1334.0	1484.4	1674.0	4134.8	12908.0	17317.4	18335.4	16175.3
72.5°	741.1	754.2	871.9	1083.3	1205.4	1102.9	2251.6	9366.0	13679.6	14765.1	12722.7
75°	625.6	627.7	684.4	852.2	991.7	828.3	1198.8	6011.5	8777.5	9283.2	7794.5
77.5°	505.7	514.4	553.6	649.5	797.8	651.7	714.9	3367.6	4407.3	4444.3	3603.0
80°	412.0	416.3	440.3	473.0	608.1	481.7	483.9	1643.5	1889.8	1846.2	1464.7
82.5°	324.8	329.1	357.5	350.9	446.8	344.4	300.8	791.2	869.7	852.2	673.5
85°	183.1	183.1	281.2	281.2	283.4	218.0	183.1	372.7	459.9	429.4	316.1
87.5°	58.9	61.0	85.0	89.4	141.7	98.1	89.4	139.5	218.0	191.8	113.3
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°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	2554.6	2519.7	2504.4	2454.3	2441.2	2408.5	2393.3	2373.7	2367.1	2338.8	2364.9
5°	2574.2	2563.3	2502.3	2439.0	2391.1	2369.3	2336.6	2293.0	2288.6	2249.4	2245.1
7.5°	2657.0	2620.0	2513.2	2445.6	2349.7	2295.2	2223.3	2201.5	2173.1	2160.0	2188.4
10°	2785.6	2691.9	2532.8	2362.8	2245.1	2179.7	2127.4	2112.1	2114.3	2105.6	2092.5
12.5°	2877.2	2787.8	2500.1	2293.0	2140.4	2077.2	2072.9	2088.1	2112.1	2101.2	2116.5
15°	3007.9	2840.1	2476.1	2177.5	2055.4	2038.0	2035.8	2081.6	2079.4	2079.4	2077.2
17.5°	3130.0	2892.4	2388.9	2077.2	1966.1	1979.1	1994.4	1992.2	2014.0	2022.7	2038.0
20°	3284.8	2953.4	2266.9	1977.0	1898.5	1894.1	1892.0	1894.1	1915.9	1929.0	1918.1
22.5°	3419.9	2966.5	2164.4	1881.1	1817.8	1800.4	1772.1	1800.4	1789.5	1793.9	1806.9
25°	3537.6	2968.7	2018.4	1809.1	1737.2	1698.0	1676.2	1674.0	1654.4	1652.2	1652.2
27.5°	3635.7	2894.6	1889.8	1708.9	1641.3	1604.2	1602.1	1578.1	1527.9	1495.3	1499.6
30°	3712.0	2837.9	1800.4	1621.7	1556.3	1549.7	1530.1	1475.6	1410.2	1368.8	1368.8
32.5°	3847.1	2724.6	1678.3	1532.3	1499.6	1490.9	1445.1	1397.2	1336.1	1296.9	1290.4
35°	3947.4	2620.0	1597.7	1456.0	1440.8	1423.3	1384.1	1331.8	1314.3	1305.6	1312.2
37.5°	4060.7	2502.3	1499.6	1390.6	1405.9	1373.2	1327.4	1303.4	1364.5	1349.2	1355.8
40°	4241.6	2419.4	1403.7	1351.4	1366.7	1329.6	1270.7	1262.0	1338.3	1283.8	1270.7
42.5°	4572.9	2417.2	1344.9	1292.5	1303.4	1275.1	1222.8	1218.4	1248.9	1183.6	1163.9
45°	4984.9	2493.5	1301.3	1248.9	1240.2	1235.9	1218.4	1198.8	1172.7	1087.7	1065.9
47.5°	5477.5	2617.8	1292.5	1183.6	1194.5	1231.5	1209.7	1159.6	1092.0	1037.5	1026.6
50°	6074.7	2875.0	1270.7	1135.6	1155.2	1214.1	1196.6	1126.9	1065.9	1031.0	1024.4
52.5°	6735.2	3199.7	1242.4	1061.5	1105.1	1198.8	1207.5	1142.1	1052.8	1022.3	1017.9
55°	7513.3	3679.3	1209.7	980.8	1046.2	1183.6	1207.5	1098.6	1035.3	1035.3	1031.0
57.5°	9050.0	4542.4	1142.1	906.7	993.9	1155.2	1172.7	1100.7	1037.5	1037.5	1028.8
60°	11303.7	5889.5	1013.5	850.1	943.8	1116.0	1146.5	1068.0	1013.5	1026.6	1024.4
62.5°	13067.1	6299.2	904.6	795.6	893.7	1044.1	1111.6	1033.2	985.2	1033.2	1037.5
65°	13444.2	5885.1	793.4	736.7	823.9	974.3	1061.5	983.0	943.8	1037.5	1041.9
66°	13309.0	5562.5	754.2	719.3	793.4	939.4	1031.0	965.6	922.0	1033.2	1035.3
67.5°	12707.5	5078.6	710.6	682.2	752.0	889.3	996.1	941.6	887.1	1020.1	1000.5
70°	11399.7	4307.0	636.5	616.8	693.1	806.5	915.5	880.6	832.6	939.4	904.6
72.5°	8779.7	3441.7	558.0	560.2	625.6	721.5	834.8	810.8	769.4	823.9	802.1
75°	5346.7	2199.3	486.1	490.4	544.9	640.8	758.5	741.1	691.0	721.5	710.6
77.5°	2369.3	1089.8	409.8	418.5	462.1	564.5	660.4	632.1	579.8	586.3	582.0
80°	919.8	516.6	333.5	344.4	372.7	451.2	547.1	520.9	475.2	466.4	462.1
82.5°	442.5	287.7	257.2	261.6	272.5	359.6	470.8	438.1	377.1	337.8	337.8
85°	222.3	178.7	180.9	165.7	180.9	244.1	318.2	265.9	220.1	196.2	200.5
87.5°	89.4	89.4	89.4	76.3	80.6	115.5	148.2	100.3	91.5	54.5	54.5
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)