

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: P478197

Luminaire Tested: **IFLD-S-SA3C-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478197
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

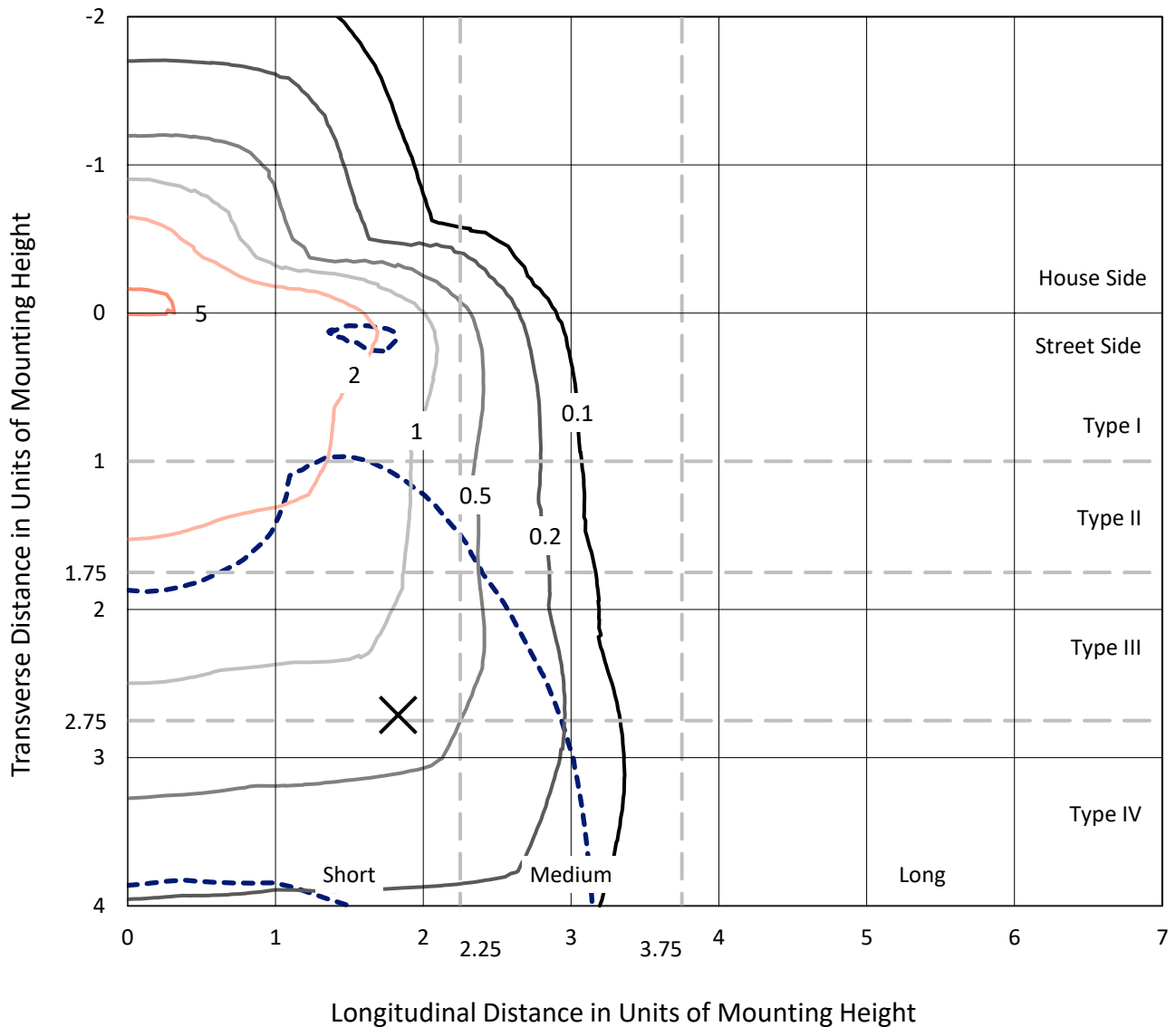
Lumens per Lamp: N/A
Luminaire Lumens: 22197.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

REPORT NUMBER: P478197
 CATALOG NUMBER: IFLD-S-SA3C-750-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

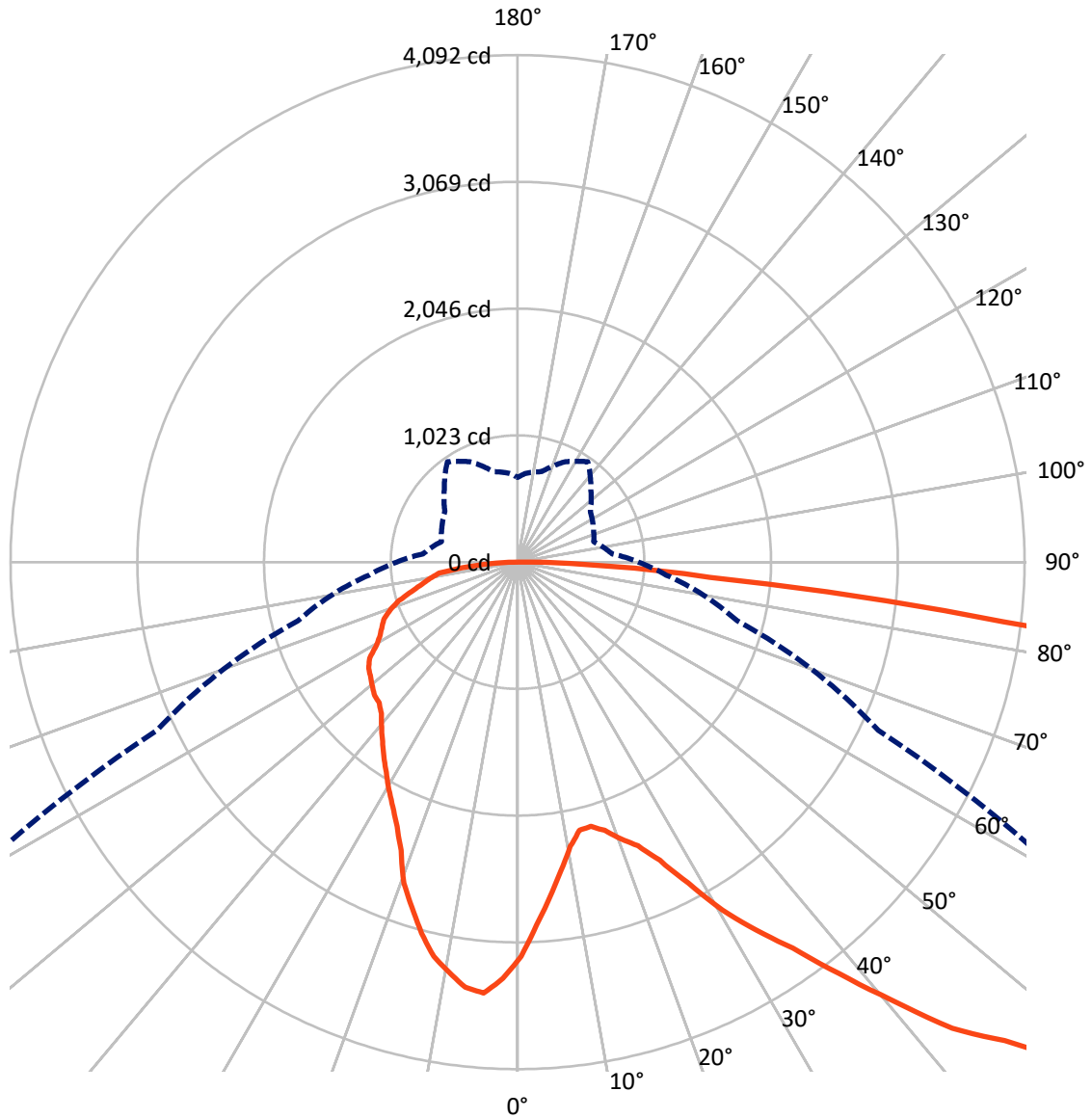
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P478197
CATALOG NUMBER: IFLD-S-SA3C-750-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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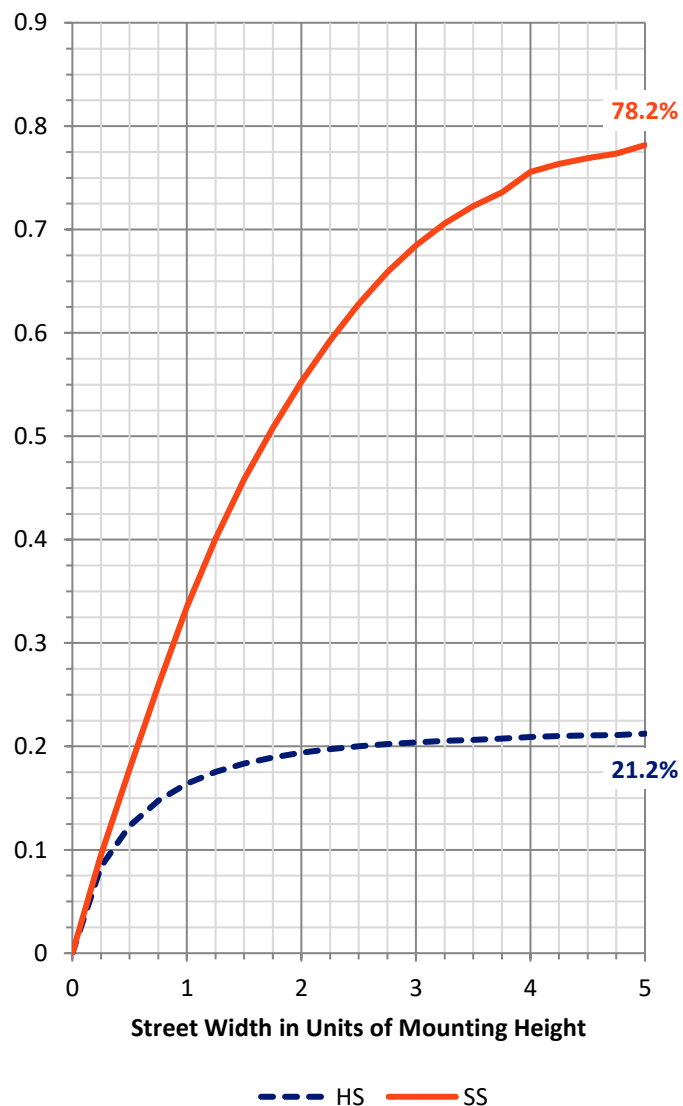
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4795.0	0.0	4795.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17402.7	0.0	17402.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	22197.7	0.0	22197.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	1.3
10°-20°	822.0	3.7
20°-30°	1352.9	6.1
30°-40°	2023.2	9.1
40°-50°	2999.4	13.5
50°-60°	4322.4	19.5
60°-70°	5515.9	24.8
70°-80°	4292.3	19.3
80°-90°	575.8	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°	22197.7	100.0
0°-180°	22197.7	100.0

Coefficient of Utilization



REPORT NUMBER: P478197

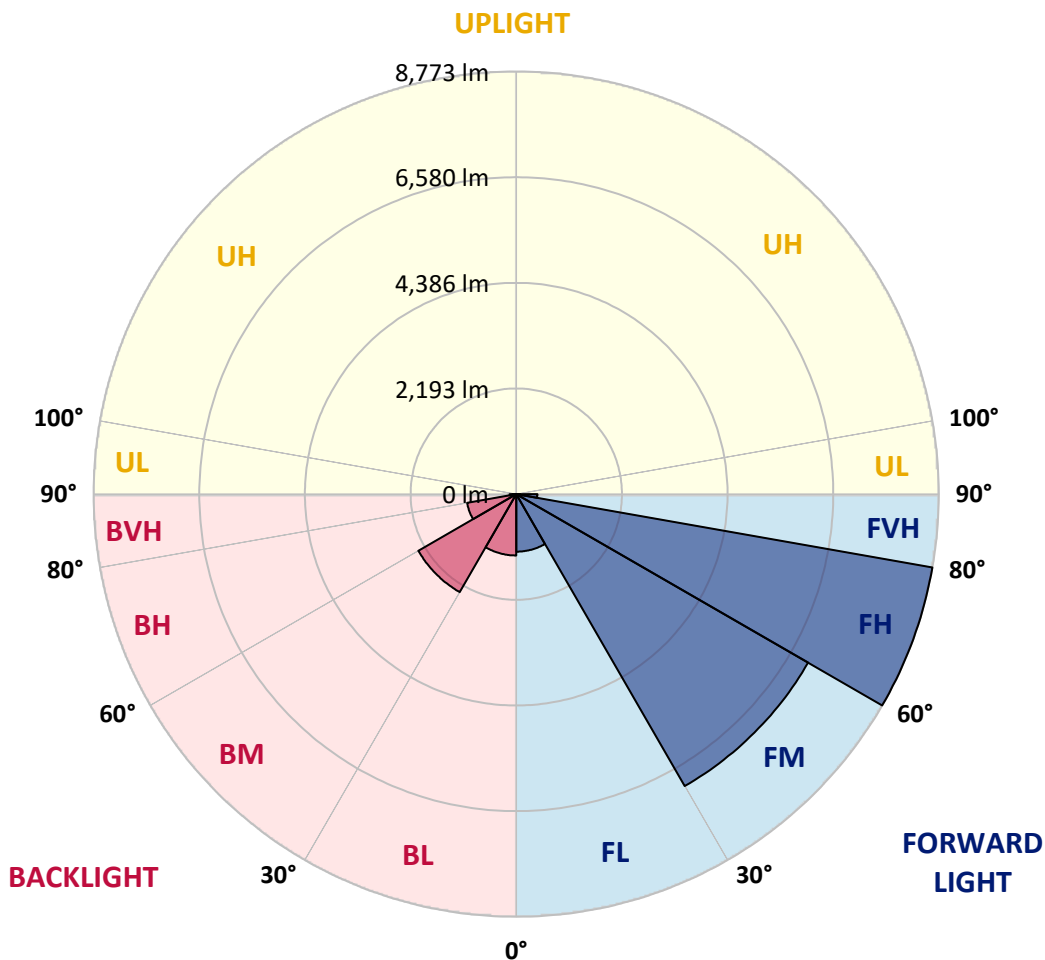
CATALOG NUMBER: IFLD-S-SA3C-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.6	5.4			
FM (30°-60°)	6996.9	31.5			
FH (60°-80°)	8772.9	39.5			G4/12000
FVH (80°-90°)	438.3	2.0			G3/500
BL (0°-30°)	1274.0	5.7	B3/2500		
BM (30°-60°)	2348.1	10.6	B2/2500		
BH (60°-80°)	1035.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	137.5	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-G4

Type IV Short





REPORT NUMBER: P478197
 CATALOG NUMBER: IFLD-S-SA3C-750-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	2851.5	2860.9	2891.4	2898.4	2931.3	2912.5	2952.4	3022.8	3062.7	3121.4	3191.8
5°	2626.2	2586.3	2605.1	2677.8	2715.4	2724.7	2767.0	2886.7	2961.8	3048.6	3180.0
7.5°	2361.0	2353.9	2391.5	2438.4	2513.5	2520.6	2614.4	2720.1	2874.9	3067.4	3222.3
10°	2180.3	2210.8	2231.9	2281.2	2332.8	2332.8	2452.5	2635.6	2811.6	2997.0	3231.7
12.5°	2170.9	2152.1	2156.8	2182.6	2220.2	2267.1	2379.8	2544.0	2767.0	2982.9	3271.6
15°	2201.4	2208.4	2166.2	2199.0	2213.1	2229.5	2353.9	2539.3	2738.8	3032.2	3339.6
17.5°	2363.3	2323.4	2257.7	2227.2	2276.5	2276.5	2361.0	2506.5	2743.5	3058.0	3438.2
20°	2490.1	2490.1	2382.1	2349.2	2384.4	2377.4	2436.1	2544.0	2767.0	3109.6	3548.5
22.5°	2703.6	2734.1	2555.8	2487.7	2485.4	2504.1	2555.8	2647.3	2832.7	3182.4	3654.1
25°	3011.1	3018.1	2811.6	2741.2	2666.1	2696.6	2706.0	2797.5	2891.4	3266.9	3773.8
27.5°	3353.7	3349.0	3158.9	2982.9	2933.6	2940.7	2889.0	2950.0	2978.2	3292.7	3945.1
30°	3733.9	3691.7	3548.5	3299.7	3259.8	3215.2	3102.6	3100.2	3158.9	3438.2	4182.2
32.5°	3982.7	3928.7	3830.1	3651.8	3541.5	3546.2	3367.8	3365.4	3313.8	3597.8	4388.7
35°	4226.8	4144.6	4118.8	3935.7	3825.4	3837.2	3694.0	3675.2	3581.4	3839.5	4729.0
37.5°	4520.1	4447.4	4487.3	4348.8	4212.7	4156.4	4090.6	4067.2	3945.1	4179.8	5193.7
40°	4844.0	4820.5	4794.7	4726.6	4644.5	4649.2	4578.8	4555.3	4374.6	4590.5	5639.6
42.5°	5280.5	5191.3	5057.6	5102.1	5144.4	5189.0	5165.5	5104.5	4916.7	5008.3	6137.1
45°	5686.5	5569.2	5322.8	5336.8	5510.5	5545.7	5829.7	5822.6	5444.8	5538.7	6702.7
47.5°	5961.1	5907.1	5759.3	5742.9	5991.6	5989.3	6500.9	6500.9	6001.0	6066.7	7310.6
50°	6369.5	6228.7	6165.3	6247.4	6374.2	6461.0	7186.2	7230.8	6547.8	6618.2	8106.2
52.5°	6848.2	6672.2	6512.6	6723.9	6949.2	7005.5	7864.4	7845.7	6967.9	7258.9	9037.9
55°	7244.9	7155.7	7045.4	7167.4	7535.9	7606.3	8545.0	8371.4	7388.0	7789.3	9486.1
57.5°	7707.2	7761.2	7784.6	7754.1	8193.0	8303.3	9321.9	8824.3	7749.4	8146.1	9749.0
60°	8404.2	8437.1	8467.6	8540.3	9005.0	9159.9	9936.8	9392.3	7977.1	8352.6	9770.1
62.5°	9465.0	9338.3	9406.4	9657.5	10030.6	10206.6	10842.7	9791.2	8150.8	8477.0	9080.1
65°	10678.4	10507.0	10436.6	10760.5	11727.4	11586.6	11973.9	10089.3	7899.6	8012.3	7700.2
67.5°	11908.1	11926.9	11746.2	12396.3	13581.5	13581.5	13025.3	10232.5	7219.0	6493.9	5400.2
70°	12884.5	12943.1	13041.7	14302.0	16179.5	16463.5	14327.8	9645.7	5832.0	4323.0	2952.4
72.5°	12870.4	12694.4	13198.9	15520.0	18540.5	18303.4	14600.0	7627.4	3640.0	2116.9	1354.2
73°	12581.7	12433.8	12985.4	15508.3	18636.7	18413.7	14400.5	7031.3	3210.6	1835.3	1204.0
75°	10274.7	10007.2	10945.9	14046.2	17242.6	17414.0	12234.4	4585.8	1760.2	1131.2	847.2
77.5°	4684.4	4801.7	6024.5	9422.8	13288.1	13490.0	8042.8	1983.1	964.6	793.3	624.3
80°	1504.4	1579.5	2344.5	4684.4	8329.1	8692.9	3717.5	901.2	687.6	607.8	467.0
82.5°	575.0	572.6	983.3	1947.9	3947.5	4179.8	1358.9	549.2	511.6	448.3	330.9
85°	201.8	211.2	370.8	769.8	1553.6	1626.4	471.7	305.1	354.4	300.4	190.1
87.5°	70.4	72.8	131.4	279.3	535.1	565.6	131.4	122.0	176.0	173.7	96.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478197
 CATALOG NUMBER: IFLD-S-SA3C-750-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	3215.2	3236.4	3243.4	3327.9	3327.9	3327.9	3360.8	3360.8	3351.4	3327.9	3384.2
5°	3229.3	3266.9	3339.6	3412.4	3431.2	3447.6	3492.2	3454.6	3468.7	3445.2	3466.4
7.5°	3269.2	3320.9	3457.0	3501.6	3471.1	3506.3	3459.3	3433.5	3407.7	3417.1	3384.2
10°	3337.3	3403.0	3466.4	3548.5	3489.8	3454.6	3358.4	3334.9	3252.8	3224.6	3250.4
12.5°	3421.8	3501.6	3609.5	3579.0	3466.4	3365.4	3262.2	3163.6	3114.3	3043.9	3062.7
15°	3506.3	3597.8	3614.2	3562.6	3421.8	3295.0	3107.3	2968.8	2919.5	2856.2	2889.0
17.5°	3597.8	3684.6	3656.5	3522.7	3332.6	3140.1	2926.6	2790.5	2687.2	2647.3	2647.3
20°	3733.9	3776.2	3731.6	3457.0	3224.6	2971.2	2764.6	2609.7	2506.5	2490.1	2464.2
22.5°	3839.5	3907.6	3708.1	3360.8	3067.4	2750.6	2513.5	2454.9	2424.3	2398.5	2365.7
25°	3975.6	3973.3	3665.8	3271.6	2797.5	2487.7	2344.5	2339.9	2325.8	2316.4	2361.0
27.5°	4104.7	4050.7	3616.6	3051.0	2518.2	2288.2	2210.8	2262.4	2283.5	2269.4	2288.2
30°	4308.9	4219.7	3546.2	2816.3	2271.8	2086.4	2100.5	2170.9	2206.1	2227.2	2199.0
32.5°	4524.8	4388.7	3400.7	2572.2	2053.5	1959.7	1992.5	2065.3	2107.5	2131.0	2156.8
35°	4836.9	4520.1	3252.8	2253.0	1896.3	1882.2	1901.0	1940.9	2001.9	2018.3	2025.4
37.5°	5221.8	4719.6	3053.3	1997.2	1774.3	1790.7	1809.5	1823.5	1825.9	1856.4	1844.7
40°	5606.7	4888.6	2762.3	1753.1	1647.5	1736.7	1727.3	1701.5	1680.4	1652.2	1645.2
42.5°	5944.7	5036.4	2438.4	1546.6	1534.9	1680.4	1649.9	1584.2	1534.9	1513.7	1478.5
45°	6324.9	5245.3	2112.2	1417.5	1448.0	1612.3	1602.9	1502.0	1438.6	1363.5	1354.2
47.5°	6817.7	5463.6	1800.1	1283.8	1365.9	1586.5	1591.2	1462.1	1370.6	1269.7	1255.6
50°	7449.0	5778.1	1563.0	1227.4	1316.6	1549.0	1556.0	1408.1	1288.4	1185.2	1175.8
52.5°	8054.5	6099.6	1365.9	1140.6	1283.8	1504.4	1520.8	1358.9	1220.4	1091.3	1098.3
55°	8359.6	5982.2	1196.9	1077.2	1208.7	1431.6	1492.6	1323.6	1117.1	1027.9	1025.6
57.5°	8427.7	5693.6	1063.1	1011.5	1145.3	1354.2	1445.7	1218.0	1070.2	995.1	985.7
60°	8204.7	5189.0	957.5	941.1	1065.5	1274.4	1337.7	1161.7	1023.2	962.2	948.1
62.5°	7655.6	4665.6	884.8	908.2	997.4	1187.5	1269.7	1121.8	978.7	936.4	905.9
65°	6277.9	3837.2	826.1	844.9	927.0	1103.0	1227.4	1077.2	938.8	898.9	896.5
67.5°	4348.8	2645.0	779.2	814.4	870.7	1042.0	1185.2	1027.9	887.1	873.0	854.3
70°	2227.2	1410.5	718.1	746.3	809.7	964.6	1110.1	976.3	833.1	830.8	807.3
72.5°	1128.9	826.1	647.7	690.0	734.6	863.7	1016.2	908.2	765.1	739.3	701.7
73°	976.3	765.1	636.0	673.6	715.8	835.5	988.0	891.8	755.7	718.1	682.9
75°	711.1	603.2	570.3	607.8	640.7	753.4	894.2	816.7	694.7	654.8	621.9
77.5°	532.7	464.7	474.1	516.3	544.5	650.1	795.6	739.3	629.0	575.0	560.9
80°	391.9	354.4	391.9	431.8	453.0	572.6	725.2	640.7	530.4	469.4	457.6
82.5°	279.3	258.2	302.7	328.6	338.0	474.1	652.4	511.6	401.3	321.5	295.7
85°	159.6	157.2	204.2	201.8	208.9	276.9	429.5	340.3	258.2	197.1	192.4
87.5°	70.4	77.4	103.3	82.1	86.8	131.4	183.1	126.7	105.6	58.7	44.6
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)