

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: P478316

Luminaire Tested: **IFLD-S-SA3E-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

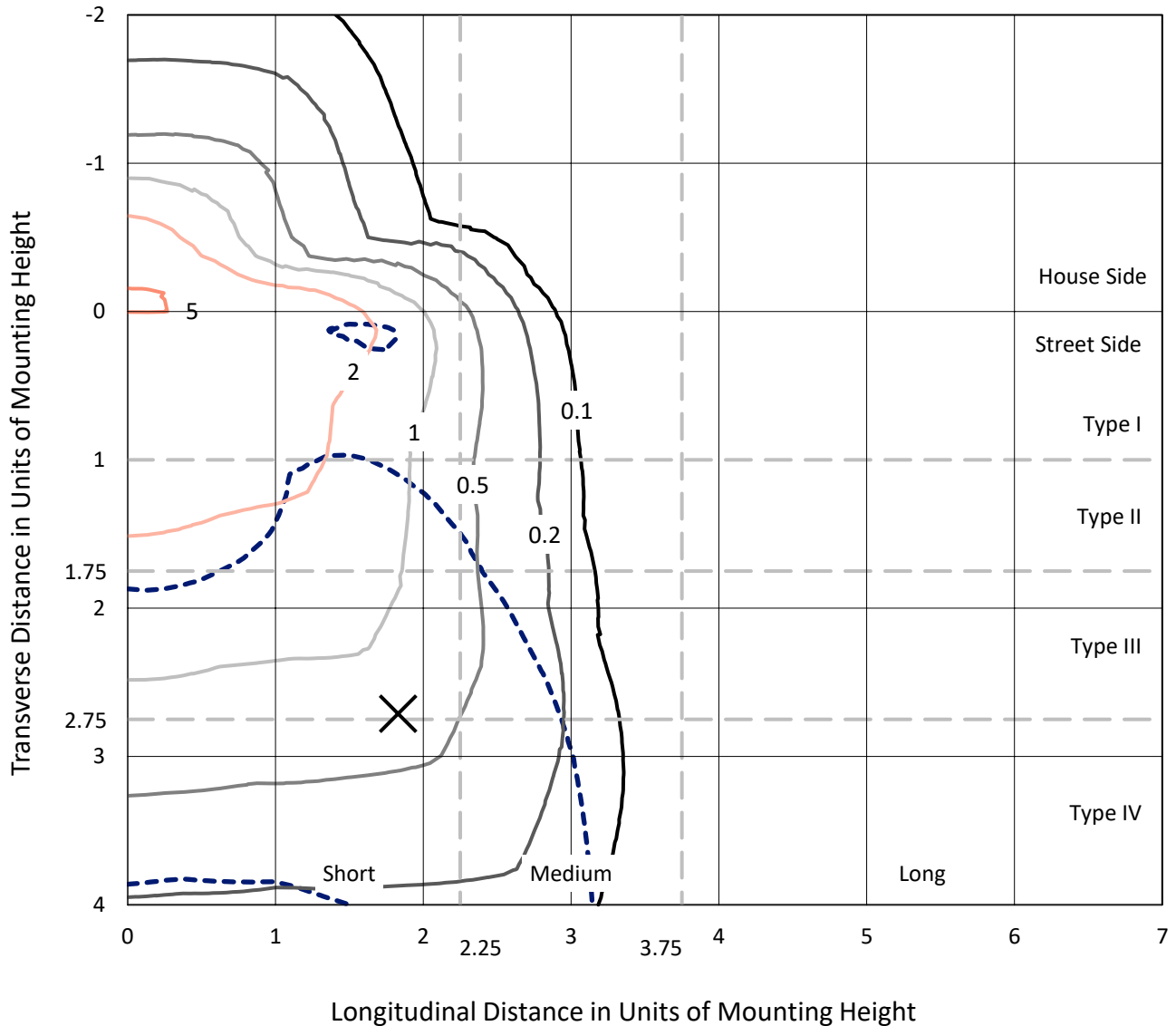
Lumens per Lamp: N/A
Luminaire Lumens: 21957.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

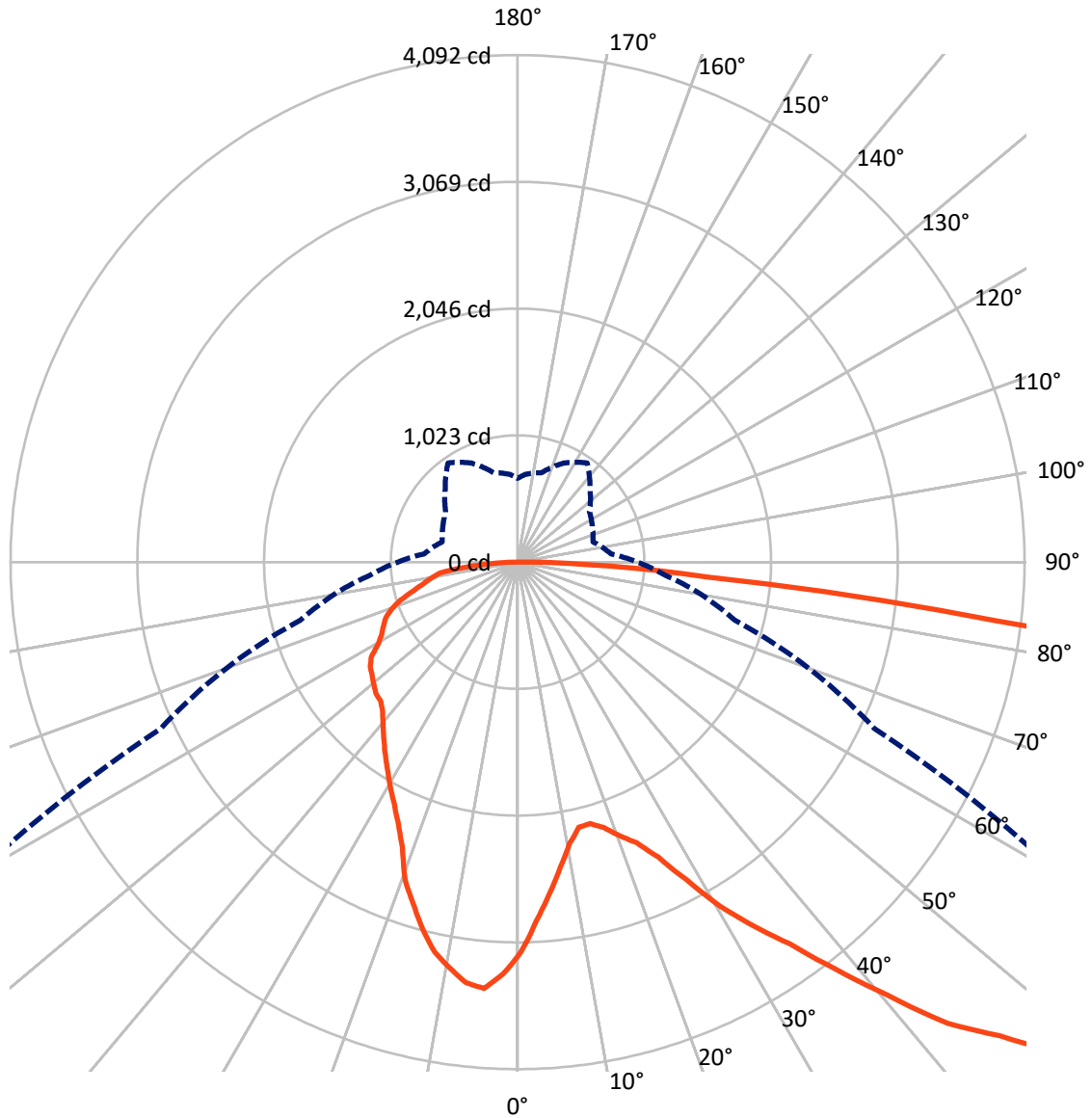
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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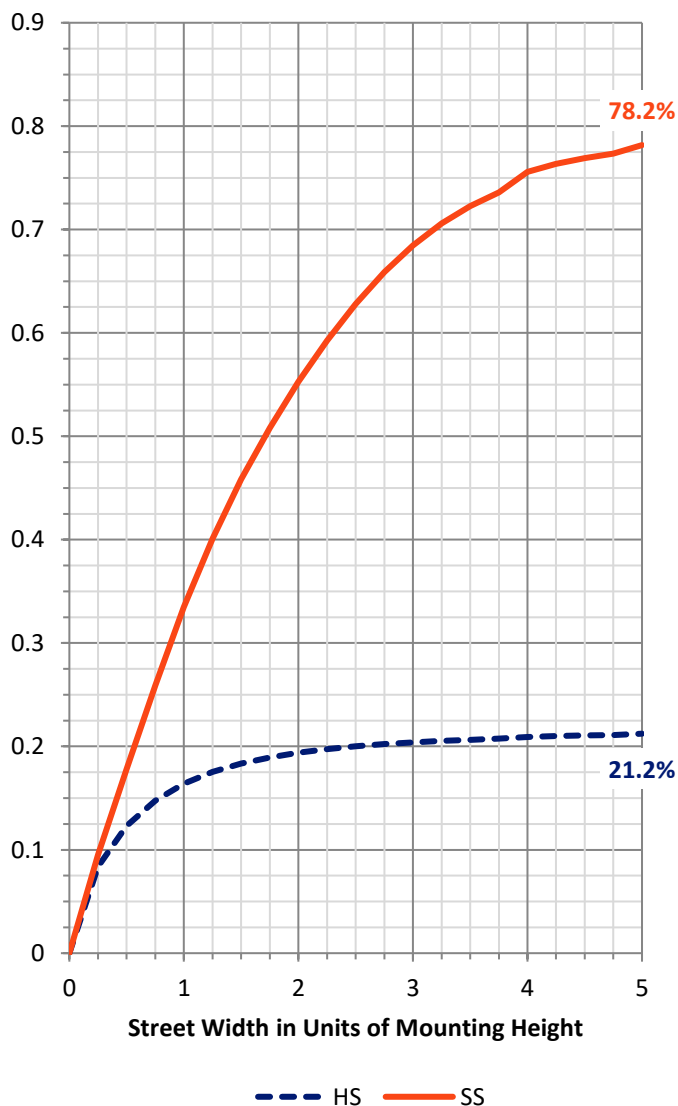
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4743.2	0.0	4743.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17214.8	0.0	17214.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	21957.9	0.0	21957.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.3
10°-20°	813.1	3.7
20°-30°	1338.3	6.1
30°-40°	2001.4	9.1
40°-50°	2967.0	13.5
50°-60°	4275.7	19.5
60°-70°	5456.4	24.8
70°-80°	4246.0	19.3
80°-90°	569.6	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°	21957.9	100.0
0°-180°	21957.9	100.0

Coefficient of Utilization



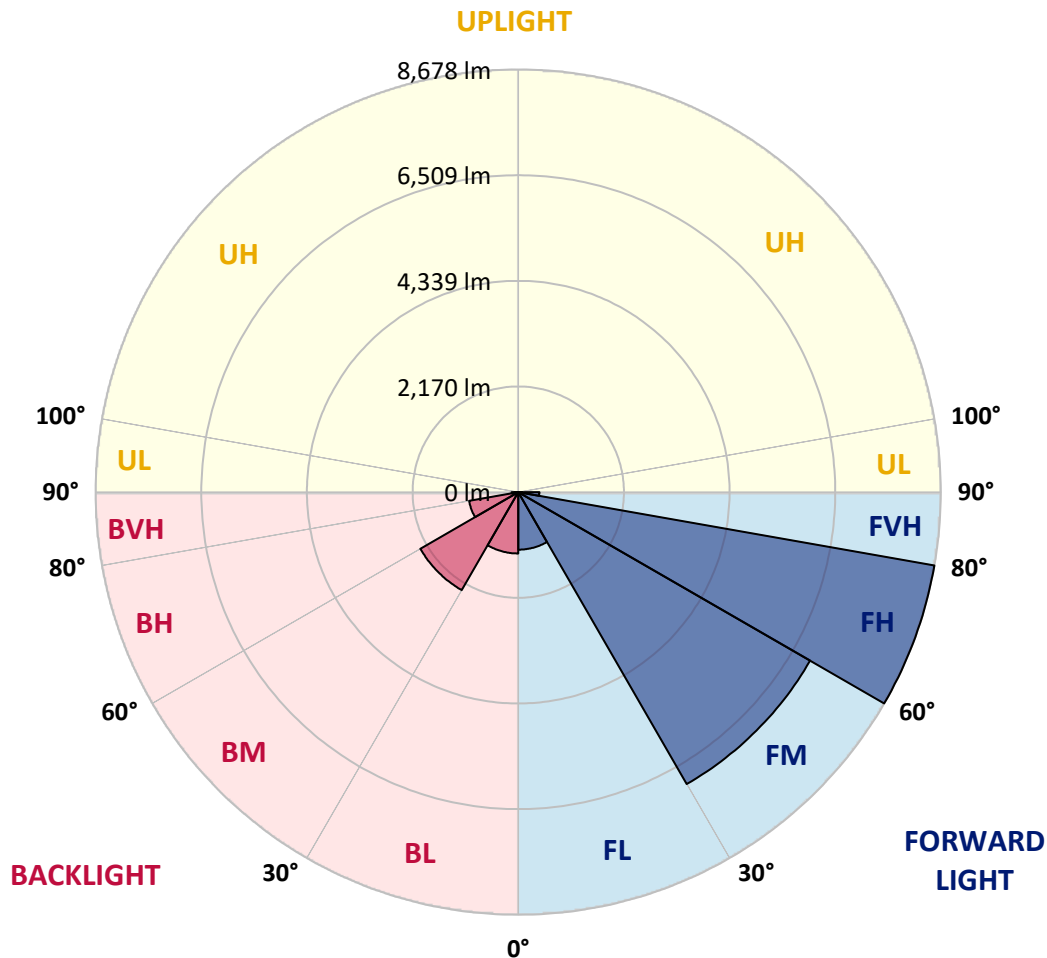
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.7	5.4			
FM (30°-60°)	6921.3	31.5			
FH (60°-80°)	8678.2	39.5			G4/12000
FVH (80°-90°)	433.6	2.0			G3/500
BL (0°-30°)	1260.2	5.7	B3/2500		
BM (30°-60°)	2322.8	10.6	B2/2500		
BH (60°-80°)	1024.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	136.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0
2.5°	2820.7	2830.0	2860.1	2867.1	2899.6	2881.0	2920.5	2990.2	3029.6	3087.7	3157.3
5°	2597.8	2558.3	2576.9	2648.9	2686.0	2695.3	2737.1	2855.5	2929.8	3015.7	3145.7
7.5°	2335.5	2328.5	2365.7	2412.1	2486.4	2493.3	2586.2	2690.7	2843.9	3034.3	3187.5
10°	2156.7	2186.9	2207.8	2256.5	2307.6	2307.6	2426.0	2607.1	2781.2	2964.6	3196.8
12.5°	2147.4	2128.9	2133.5	2159.0	2196.2	2242.6	2354.0	2516.6	2737.1	2950.7	3236.2
15°	2177.6	2184.6	2142.8	2175.3	2189.2	2205.5	2328.5	2511.9	2709.2	2999.4	3303.6
17.5°	2337.8	2298.3	2233.3	2203.1	2251.9	2251.9	2335.5	2479.4	2713.9	3025.0	3401.1
20°	2463.2	2463.2	2356.4	2323.9	2358.7	2351.7	2409.8	2516.6	2737.1	3076.0	3510.2
22.5°	2674.4	2704.6	2528.2	2460.8	2458.5	2477.1	2528.2	2618.7	2802.1	3148.0	3614.6
25°	2978.5	2985.5	2781.2	2711.6	2637.3	2667.5	2676.7	2767.3	2860.1	3231.6	3733.0
27.5°	3317.5	3312.8	3124.8	2950.7	2901.9	2908.9	2857.8	2918.2	2946.0	3257.1	3902.5
30°	3693.6	3651.8	3510.2	3264.1	3224.6	3180.5	3069.1	3066.8	3124.8	3401.1	4137.0
32.5°	3939.7	3886.3	3788.8	3612.3	3503.2	3507.9	3331.4	3329.1	3278.0	3558.9	4341.3
35°	4181.1	4099.9	4074.3	3893.2	3784.1	3795.7	3654.1	3635.5	3542.7	3798.0	4677.9
37.5°	4471.3	4399.3	4438.8	4301.8	4167.2	4111.5	4046.5	4023.2	3902.5	4134.7	5137.6
40°	4791.7	4768.5	4742.9	4675.6	4594.3	4599.0	4529.3	4506.1	4327.4	4540.9	5578.7
42.5°	5223.5	5135.3	5002.9	5047.0	5088.8	5132.9	5109.7	5049.4	4863.6	4954.2	6070.8
45°	5625.1	5509.0	5265.3	5279.2	5451.0	5485.8	5766.7	5759.8	5386.0	5478.8	6630.3
47.5°	5896.7	5843.3	5697.1	5680.8	5926.9	5924.6	6430.7	6430.7	5936.2	6001.2	7231.6
50°	6300.7	6161.4	6098.7	6180.0	6305.3	6391.2	7108.6	7152.7	6477.1	6546.8	8018.6
52.5°	6774.3	6600.2	6442.3	6651.2	6874.1	6929.8	7779.5	7760.9	6892.7	7180.5	8940.3
55°	7166.6	7078.4	6969.3	7090.0	7454.5	7524.1	8452.7	8281.0	7308.2	7705.2	9383.7
57.5°	7624.0	7677.4	7700.6	7670.4	8104.5	8213.6	9221.2	8729.0	7665.7	8058.1	9643.7
60°	8313.5	8346.0	8376.1	8448.1	8907.8	9061.0	9829.4	9290.8	7890.9	8262.4	9664.6
62.5°	9362.8	9237.4	9304.8	9553.2	9922.3	10096.4	10725.5	9685.5	8062.7	8385.4	8982.1
65°	10563.0	10393.6	10323.9	10644.3	11600.8	11461.5	11844.5	9980.3	7814.3	7925.8	7617.0
67.5°	11779.5	11798.1	11619.3	12262.4	13434.8	13434.8	12884.6	10121.9	7141.1	6423.7	5341.9
70°	12745.3	12803.3	12900.8	14147.5	16004.7	16285.6	14173.0	9541.6	5769.0	4276.3	2920.5
72.5°	12731.4	12557.2	13056.4	15352.4	18340.2	18105.7	14442.3	7545.0	3600.7	2094.0	1339.5
73°	12445.8	12299.6	12845.1	15340.8	18435.4	18214.8	14245.0	6955.4	3175.9	1815.4	1191.0
75°	10163.7	9899.1	10827.7	13894.5	17056.4	17225.9	12102.2	4536.3	1741.2	1119.0	838.1
77.5°	4633.8	4749.9	5959.4	9321.0	13144.6	13344.2	7955.9	1961.7	954.2	784.7	617.5
80°	1488.1	1562.4	2319.2	4633.8	8239.2	8599.0	3677.3	891.5	680.2	601.3	462.0
82.5°	568.8	566.5	972.7	1926.9	3904.8	4134.7	1344.2	543.2	506.1	443.4	327.3
85°	199.7	208.9	366.8	761.5	1536.9	1608.8	466.6	301.8	350.6	297.2	188.0
87.5°	69.6	72.0	130.0	276.3	529.3	559.5	130.0	120.7	174.1	171.8	95.2
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°	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0
2.5°	3180.5	3201.4	3208.4	3292.0	3292.0	3292.0	3324.5	3324.5	3315.2	3292.0	3347.7
5°	3194.4	3231.6	3303.6	3375.5	3394.1	3410.4	3454.5	3417.3	3431.2	3408.0	3428.9
7.5°	3233.9	3285.0	3419.6	3463.7	3433.6	3468.4	3422.0	3396.4	3370.9	3380.2	3347.7
10°	3301.2	3366.2	3428.9	3510.2	3452.1	3417.3	3322.1	3298.9	3217.7	3189.8	3215.3
12.5°	3384.8	3463.7	3570.5	3540.4	3428.9	3329.1	3226.9	3129.4	3080.7	3011.0	3029.6
15°	3468.4	3558.9	3575.2	3524.1	3384.8	3259.5	3073.7	2936.8	2888.0	2825.3	2857.8
17.5°	3558.9	3644.8	3617.0	3484.6	3296.6	3106.2	2895.0	2760.3	2658.2	2618.7	2618.7
20°	3693.6	3735.4	3691.3	3419.6	3189.8	2939.1	2734.8	2581.6	2479.4	2463.2	2437.6
22.5°	3798.0	3865.4	3668.0	3324.5	3034.3	2720.9	2486.4	2428.3	2398.2	2372.6	2340.1
25°	3932.7	3930.4	3626.3	3236.2	2767.3	2460.8	2319.2	2314.6	2300.7	2291.4	2335.5
27.5°	4060.4	4007.0	3577.5	3018.0	2491.0	2263.5	2186.9	2238.0	2258.9	2244.9	2263.5
30°	4262.4	4174.1	3507.9	2785.9	2247.3	2063.9	2077.8	2147.4	2182.3	2203.1	2175.3
32.5°	4475.9	4341.3	3363.9	2544.4	2031.4	1938.5	1971.0	2043.0	2084.7	2108.0	2133.5
35°	4784.7	4471.3	3217.7	2228.7	1875.8	1861.9	1880.5	1919.9	1980.3	1996.5	2003.5
37.5°	5165.4	4668.6	3020.3	1975.6	1755.1	1771.3	1789.9	1803.8	1806.2	1836.3	1824.7
40°	5546.2	4835.8	2732.5	1734.2	1629.7	1717.9	1708.7	1683.1	1662.2	1634.4	1627.4
42.5°	5880.5	4982.0	2412.1	1529.9	1518.3	1662.2	1632.0	1567.0	1518.3	1497.4	1462.6
45°	6256.6	5188.7	2089.4	1402.2	1432.4	1594.9	1585.6	1485.8	1423.1	1348.8	1339.5
47.5°	6744.1	5404.6	1780.6	1269.9	1351.1	1569.4	1574.0	1446.3	1355.8	1256.0	1242.0
50°	7368.6	5715.6	1546.1	1214.2	1302.4	1532.2	1539.2	1392.9	1274.5	1172.4	1163.1
52.5°	7967.5	6033.7	1351.1	1128.3	1269.9	1488.1	1504.4	1344.2	1207.2	1079.5	1086.5
55°	8269.3	5917.6	1184.0	1065.6	1195.6	1416.1	1476.5	1309.4	1105.1	1016.8	1014.5
57.5°	8336.7	5632.1	1051.7	1000.6	1132.9	1339.5	1430.1	1204.9	1058.6	984.3	975.0
60°	8116.1	5132.9	947.2	930.9	1054.0	1260.6	1323.3	1149.2	1012.2	951.8	937.9
62.5°	7572.9	4615.2	875.2	898.4	986.7	1174.7	1256.0	1109.7	968.1	926.3	896.1
65°	6210.1	3795.7	817.2	835.8	917.0	1091.1	1214.2	1065.6	928.6	889.2	886.8
67.5°	4301.8	2616.4	770.8	805.6	861.3	1030.8	1172.4	1016.8	877.5	863.6	845.0
70°	2203.1	1395.2	710.4	738.3	800.9	954.2	1098.1	965.8	824.1	821.8	798.6
72.5°	1116.7	817.2	640.7	682.5	726.6	854.3	1005.2	898.4	756.8	731.3	694.1
73°	965.8	756.8	629.1	666.3	708.1	826.5	977.4	882.2	747.5	710.4	675.6
75°	703.4	596.6	564.1	601.3	633.8	745.2	884.5	807.9	687.2	647.7	615.2
77.5°	527.0	459.7	469.0	510.7	538.6	643.1	787.0	731.3	622.2	568.8	554.8
80°	387.7	350.6	387.7	427.2	448.1	566.5	717.4	633.8	524.7	464.3	452.7
82.5°	276.3	255.4	299.5	325.0	334.3	469.0	645.4	506.1	397.0	318.1	292.5
85°	157.9	155.5	202.0	199.7	206.6	273.9	424.8	336.6	255.4	195.0	190.4
87.5°	69.6	76.6	102.1	81.3	85.9	130.0	181.1	125.4	104.5	58.0	44.1
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)