

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: P478327

Luminaire Tested: **IFLD-S-SA6A-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478327
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

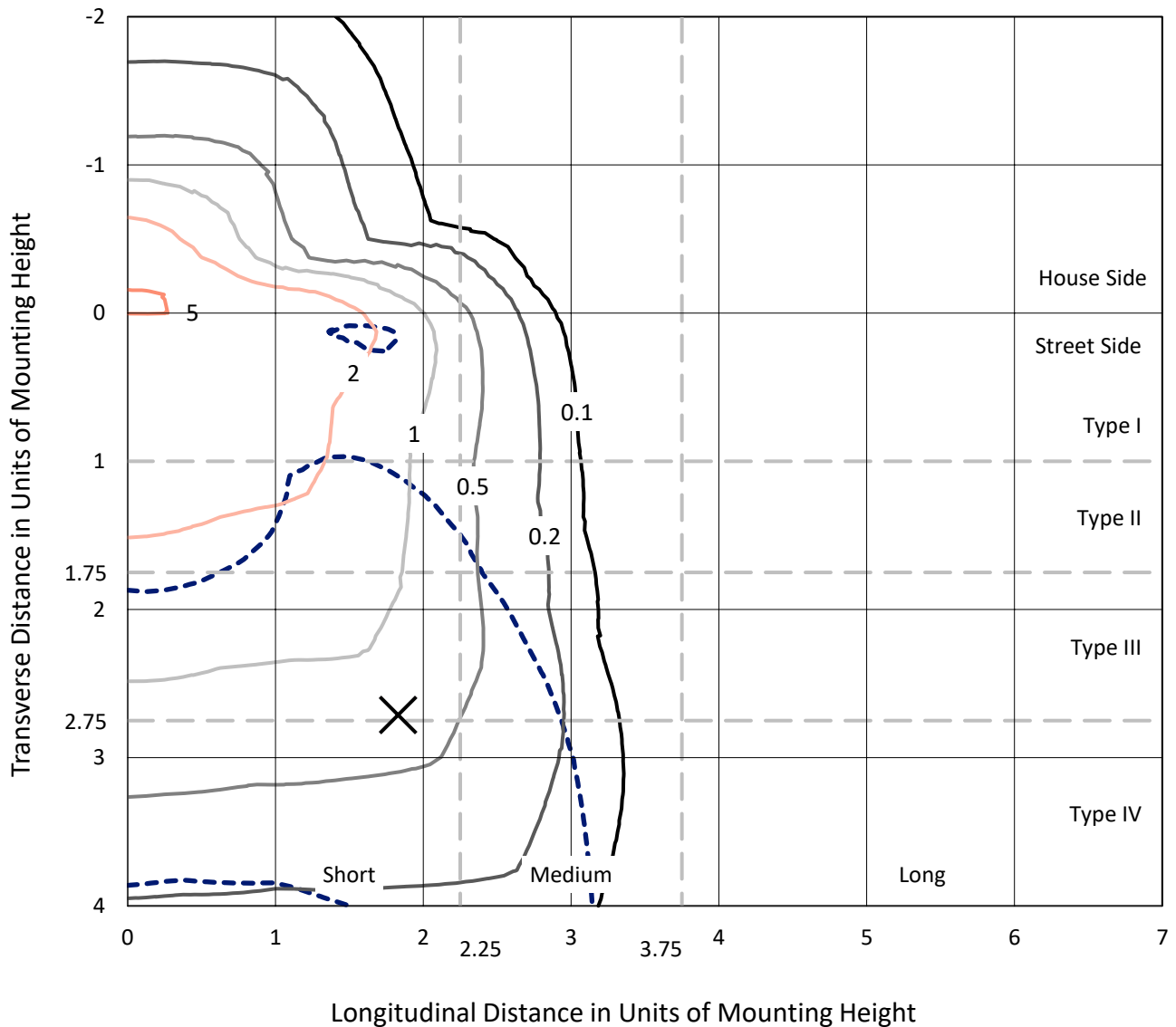
Lumens per Lamp: N/A
Luminaire Lumens: 21971.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

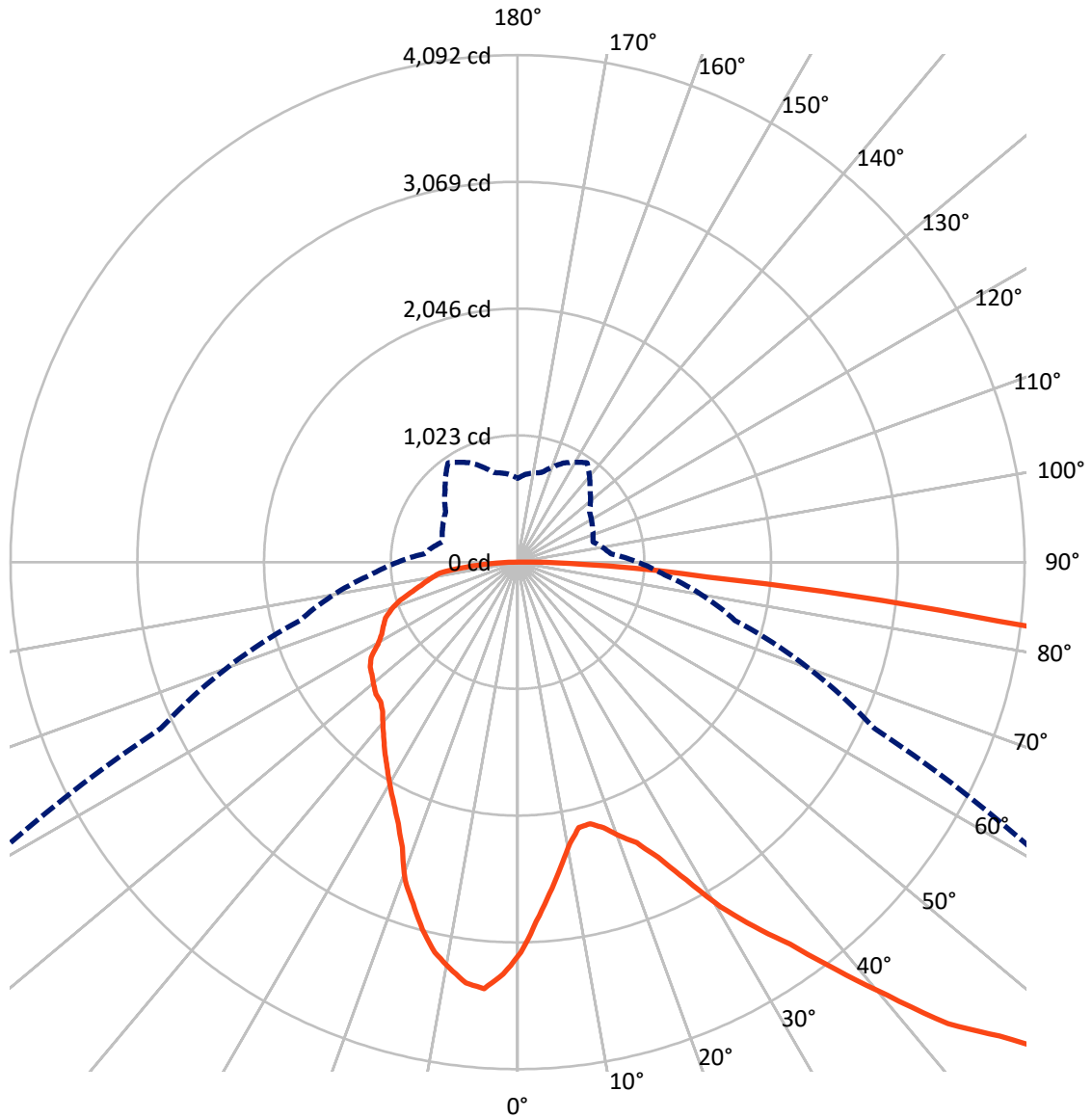
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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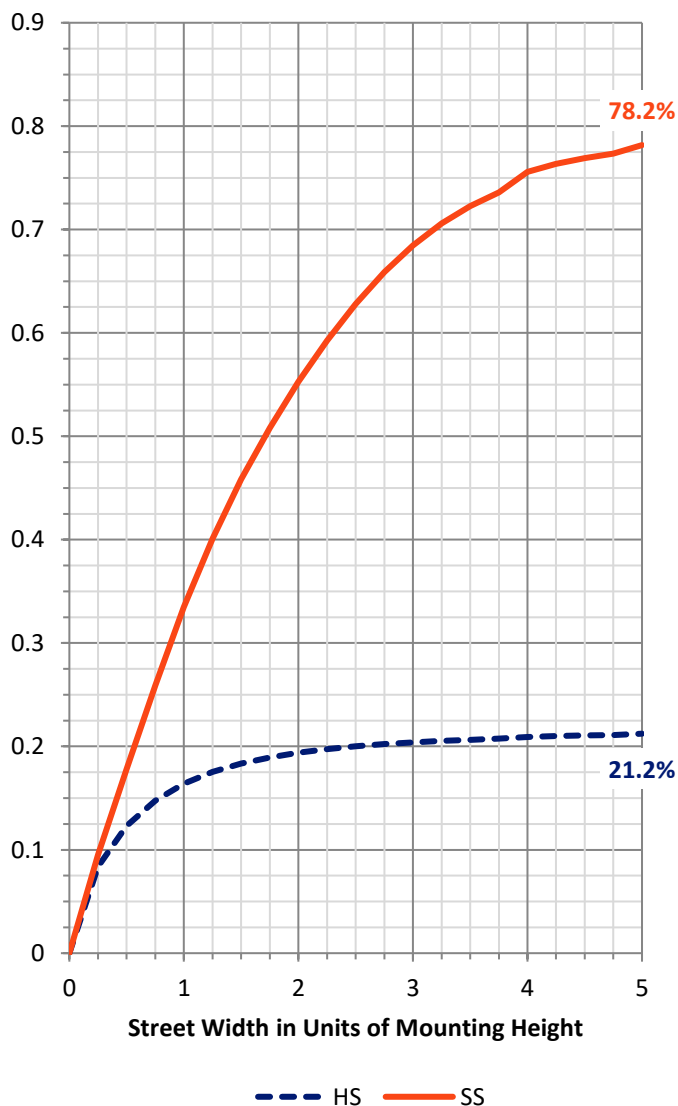
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4746.1	0.0	4746.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17225.3	0.0	17225.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	21971.5	0.0	21971.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	1.3
10°-20°	813.6	3.7
20°-30°	1339.1	6.1
30°-40°	2002.6	9.1
40°-50°	2968.8	13.5
50°-60°	4278.3	19.5
60°-70°	5459.7	24.8
70°-80°	4248.6	19.3
80°-90°	570.0	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°	21971.5	100.0
0°-180°	21971.5	100.0

Coefficient of Utilization



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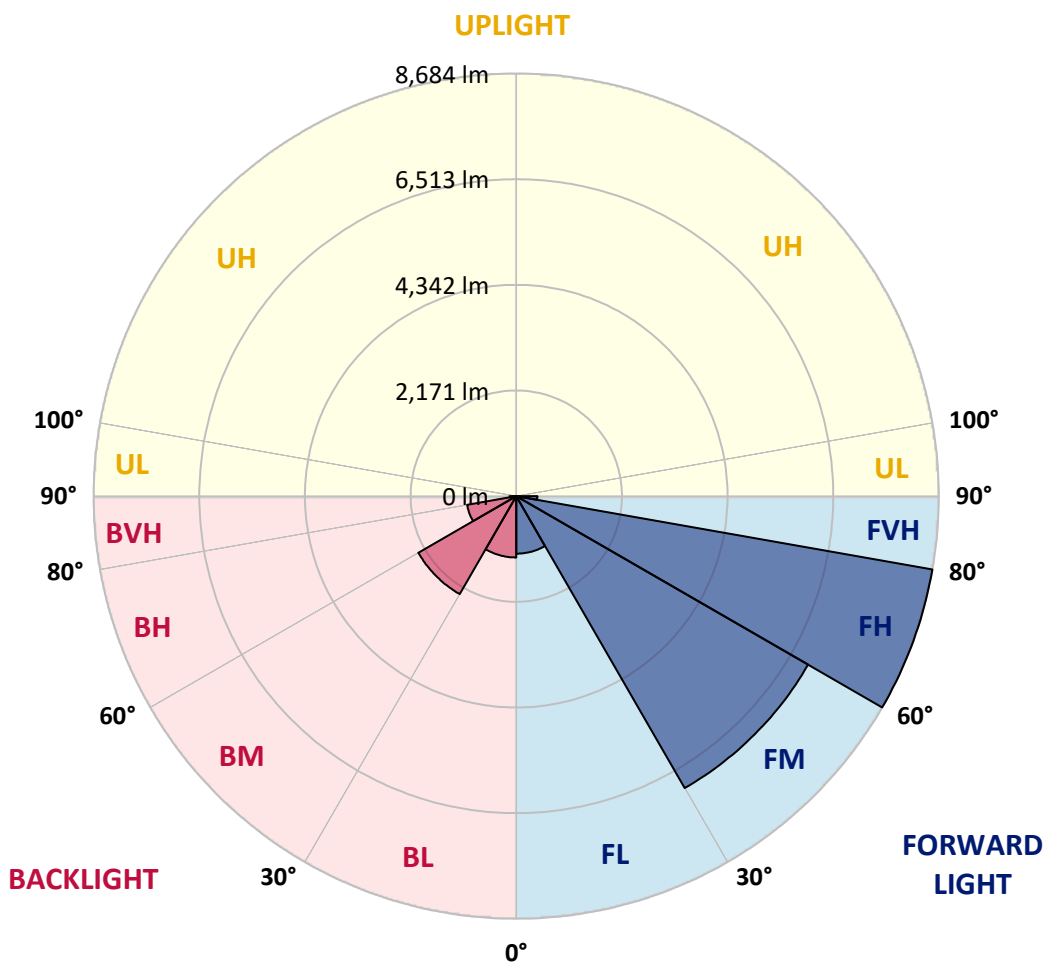
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.4	5.4			
FM (30°-60°)	6925.5	31.5			
FH (60°-80°)	8683.5	39.5			G4/12000
FVH (80°-90°)	433.8	2.0			G3/500
BL (0°-30°)	1261.0	5.7	B3/2500		
BM (30°-60°)	2324.2	10.6	B2/2500		
BH (60°-80°)	1024.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	136.1	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°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	2822.4	2831.7	2861.9	2868.9	2901.4	2882.8	2922.3	2992.0	3031.5	3089.6	3159.2
5°	2599.4	2559.9	2578.5	2650.5	2687.7	2697.0	2738.8	2857.3	2931.6	3017.5	3147.6
7.5°	2336.9	2329.9	2367.1	2413.6	2487.9	2494.9	2587.8	2692.3	2845.6	3036.1	3189.4
10°	2158.0	2188.2	2209.1	2257.9	2309.0	2309.0	2427.5	2608.7	2782.9	2966.4	3198.7
12.5°	2148.8	2130.2	2134.8	2160.4	2197.5	2244.0	2355.5	2518.1	2738.8	2952.5	3238.2
15°	2178.9	2185.9	2144.1	2176.6	2190.6	2206.8	2329.9	2513.5	2710.9	3001.3	3305.6
17.5°	2339.2	2299.7	2234.7	2204.5	2253.3	2253.3	2336.9	2480.9	2715.6	3026.8	3403.2
20°	2464.7	2464.7	2357.8	2325.3	2360.1	2353.2	2411.2	2518.1	2738.8	3077.9	3512.3
22.5°	2676.1	2706.3	2529.7	2462.4	2460.0	2478.6	2529.7	2620.3	2803.8	3150.0	3616.9
25°	2980.4	2987.3	2782.9	2713.2	2638.9	2669.1	2678.4	2769.0	2861.9	3233.6	3735.3
27.5°	3319.5	3314.9	3126.7	2952.5	2903.7	2910.7	2859.6	2920.0	2947.9	3259.1	3904.9
30°	3695.9	3654.0	3512.3	3266.1	3226.6	3182.5	3071.0	3068.6	3126.7	3403.2	4139.5
32.5°	3942.1	3888.7	3791.1	3614.5	3505.4	3510.0	3333.5	3331.1	3280.0	3561.1	4344.0
35°	4183.7	4102.4	4076.8	3895.6	3786.4	3798.1	3656.4	3637.8	3544.9	3800.4	4680.8
37.5°	4474.0	4402.0	4441.5	4304.5	4169.7	4114.0	4048.9	4025.7	3904.9	4137.2	5140.7
40°	4794.6	4771.4	4745.8	4678.5	4597.2	4601.8	4532.1	4508.9	4330.0	4543.7	5582.1
42.5°	5226.7	5138.4	5006.0	5050.1	5092.0	5136.1	5112.9	5052.5	4866.6	4957.2	6074.6
45°	5628.6	5512.4	5268.5	5282.4	5454.3	5489.2	5770.3	5763.3	5389.3	5482.2	6634.4
47.5°	5900.4	5846.9	5700.6	5684.3	5930.6	5928.2	6434.6	6434.6	5939.8	6004.9	7236.1
50°	6304.6	6165.2	6102.5	6183.8	6309.2	6395.1	7112.9	7157.1	6481.1	6550.8	8023.6
52.5°	6778.4	6604.2	6446.3	6655.3	6878.3	6934.1	7784.3	7765.7	6896.9	7185.0	8945.8
55°	7171.0	7082.7	6973.6	7094.4	7459.1	7528.8	8457.9	8286.0	7312.7	7710.0	9389.5
57.5°	7628.6	7682.1	7705.3	7675.1	8109.5	8218.7	9226.9	8734.4	7670.5	8063.0	9649.6
60°	8318.6	8351.1	8381.3	8453.3	8913.3	9066.6	9835.5	9296.5	7895.8	8267.5	9670.5
62.5°	9368.6	9243.1	9310.5	9559.0	9928.4	10102.6	10732.1	9691.4	8067.7	8390.6	8987.6
65°	10569.5	10400.0	10330.3	10650.8	11607.9	11468.5	11851.8	9986.5	7819.1	7930.6	7621.7
67.5°	11786.8	11805.4	11626.5	12269.9	13443.1	13443.1	12892.5	10128.2	7145.5	6427.7	5345.2
70°	12753.1	12811.2	12908.8	14156.2	16014.6	16295.7	14181.8	9547.4	5772.6	4278.9	2922.3
72.5°	12739.2	12565.0	13064.4	15361.8	18351.5	18116.9	14451.2	7549.7	3602.9	2095.3	1340.4
73°	12453.5	12307.1	12853.0	15350.2	18446.7	18226.1	14253.8	6959.6	3177.8	1816.6	1191.7
75°	10170.0	9905.2	10834.4	13903.0	17066.9	17236.5	12109.7	4539.1	1742.2	1119.7	838.6
77.5°	4636.7	4752.8	5963.1	9326.7	13152.7	13352.5	7960.8	1962.9	954.7	785.2	617.9
80°	1489.0	1563.4	2320.7	4636.7	8244.2	8604.3	3679.6	892.0	680.6	601.7	462.3
82.5°	569.1	566.8	973.3	1928.1	3907.2	4137.2	1345.0	543.6	506.4	443.7	327.5
85°	199.8	209.1	367.0	761.9	1537.8	1609.8	466.9	302.0	350.8	297.3	188.2
87.5°	69.7	72.0	130.1	276.4	529.6	559.8	130.1	120.8	174.2	171.9	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°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3182.5	3203.4	3210.4	3294.0	3294.0	3294.0	3326.5	3326.5	3317.2	3294.0	3349.7
5°	3196.4	3233.6	3305.6	3377.6	3396.2	3412.4	3456.6	3419.4	3433.4	3410.1	3431.0
7.5°	3235.9	3287.0	3421.7	3465.9	3435.7	3470.5	3424.1	3398.5	3373.0	3382.3	3349.7
10°	3303.3	3368.3	3431.0	3512.3	3454.3	3419.4	3324.2	3300.9	3219.6	3191.8	3217.3
12.5°	3386.9	3465.9	3572.7	3542.5	3431.0	3331.1	3228.9	3131.4	3082.6	3012.9	3031.5
15°	3470.5	3561.1	3577.4	3526.3	3386.9	3261.5	3075.6	2938.6	2889.8	2827.1	2859.6
17.5°	3561.1	3647.1	3619.2	3486.8	3298.6	3108.1	2896.7	2762.0	2659.8	2620.3	2620.3
20°	3695.9	3737.7	3693.5	3421.7	3191.8	2940.9	2736.5	2583.1	2480.9	2464.7	2439.1
22.5°	3800.4	3867.8	3670.3	3326.5	3036.1	2722.5	2487.9	2429.8	2399.6	2374.1	2341.6
25°	3935.1	3932.8	3628.5	3238.2	2769.0	2462.4	2320.7	2316.0	2302.1	2292.8	2336.9
27.5°	4062.9	4009.5	3579.7	3019.9	2492.6	2264.9	2188.2	2239.3	2260.3	2246.3	2264.9
30°	4265.0	4176.7	3510.0	2787.6	2248.6	2065.1	2079.1	2148.8	2183.6	2204.5	2176.6
32.5°	4478.7	4344.0	3366.0	2546.0	2032.6	1939.7	1972.2	2044.2	2086.0	2109.3	2134.8
35°	4787.6	4474.0	3219.6	2230.1	1877.0	1863.0	1881.6	1921.1	1981.5	1997.8	2004.7
37.5°	5168.6	4671.5	3022.2	1976.9	1756.2	1772.4	1791.0	1805.0	1807.3	1837.5	1825.9
40°	5549.6	4838.8	2734.1	1735.3	1630.7	1719.0	1709.7	1684.2	1663.2	1635.4	1628.4
42.5°	5884.1	4985.1	2413.6	1530.8	1519.2	1663.2	1633.1	1568.0	1519.2	1498.3	1463.5
45°	6260.4	5191.8	2090.7	1403.1	1433.3	1595.9	1586.6	1486.7	1424.0	1349.6	1340.4
47.5°	6748.2	5407.9	1781.7	1270.7	1352.0	1570.3	1575.0	1447.2	1356.6	1256.7	1242.8
50°	7373.1	5719.2	1547.1	1214.9	1303.2	1533.2	1540.1	1393.8	1275.3	1173.1	1163.8
52.5°	7972.4	6037.4	1352.0	1129.0	1270.7	1489.0	1505.3	1345.0	1207.9	1080.2	1087.2
55°	8274.4	5921.3	1184.7	1066.2	1196.3	1417.0	1477.4	1310.2	1105.7	1017.5	1015.1
57.5°	8341.8	5635.5	1052.3	1001.2	1133.6	1340.4	1431.0	1205.6	1059.3	984.9	975.6
60°	8121.1	5136.1	947.8	931.5	1054.6	1261.4	1324.1	1149.9	1012.8	952.4	938.5
62.5°	7577.5	4618.1	875.8	899.0	987.3	1175.4	1256.7	1110.4	968.7	926.9	896.7
65°	6214.0	3798.1	817.7	836.3	917.6	1091.8	1214.9	1066.2	929.2	889.7	887.4
67.5°	4304.5	2618.0	771.2	806.1	861.8	1031.4	1173.1	1017.5	878.1	864.1	845.6
70°	2204.5	1396.1	710.8	738.7	801.4	954.7	1098.8	966.4	824.7	822.3	799.1
72.5°	1117.4	817.7	641.1	683.0	727.1	854.9	1005.8	899.0	757.3	731.7	694.6
73°	966.4	757.3	629.5	666.7	708.5	827.0	978.0	882.7	748.0	710.8	676.0
75°	703.9	597.0	564.5	601.7	634.2	745.7	885.1	808.4	687.6	648.1	615.6
77.5°	527.3	459.9	469.2	511.1	538.9	643.5	787.5	731.7	622.6	569.1	555.2
80°	387.9	350.8	387.9	427.4	448.3	566.8	717.8	634.2	525.0	464.6	453.0
82.5°	276.4	255.5	299.7	325.2	334.5	469.2	645.8	506.4	397.2	318.2	292.7
85°	158.0	155.6	202.1	199.8	206.7	274.1	425.1	336.8	255.5	195.1	190.5
87.5°	69.7	76.7	102.2	81.3	86.0	130.1	181.2	125.4	104.5	58.1	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)