

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: P478470

Luminaire Tested: **IFLD-S-SA3C-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

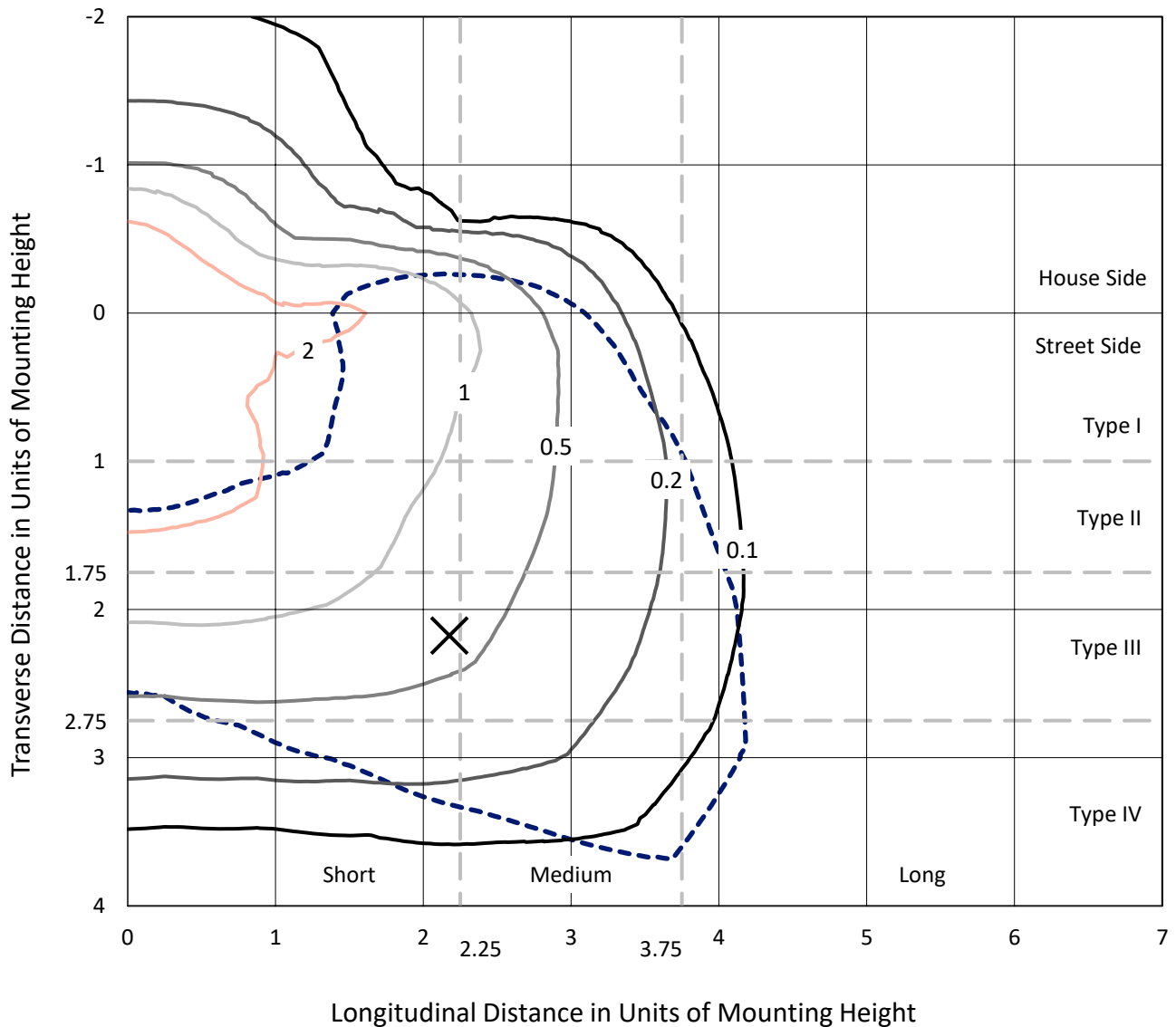
Lumens per Lamp: N/A
Luminaire Lumens: 19496.2 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

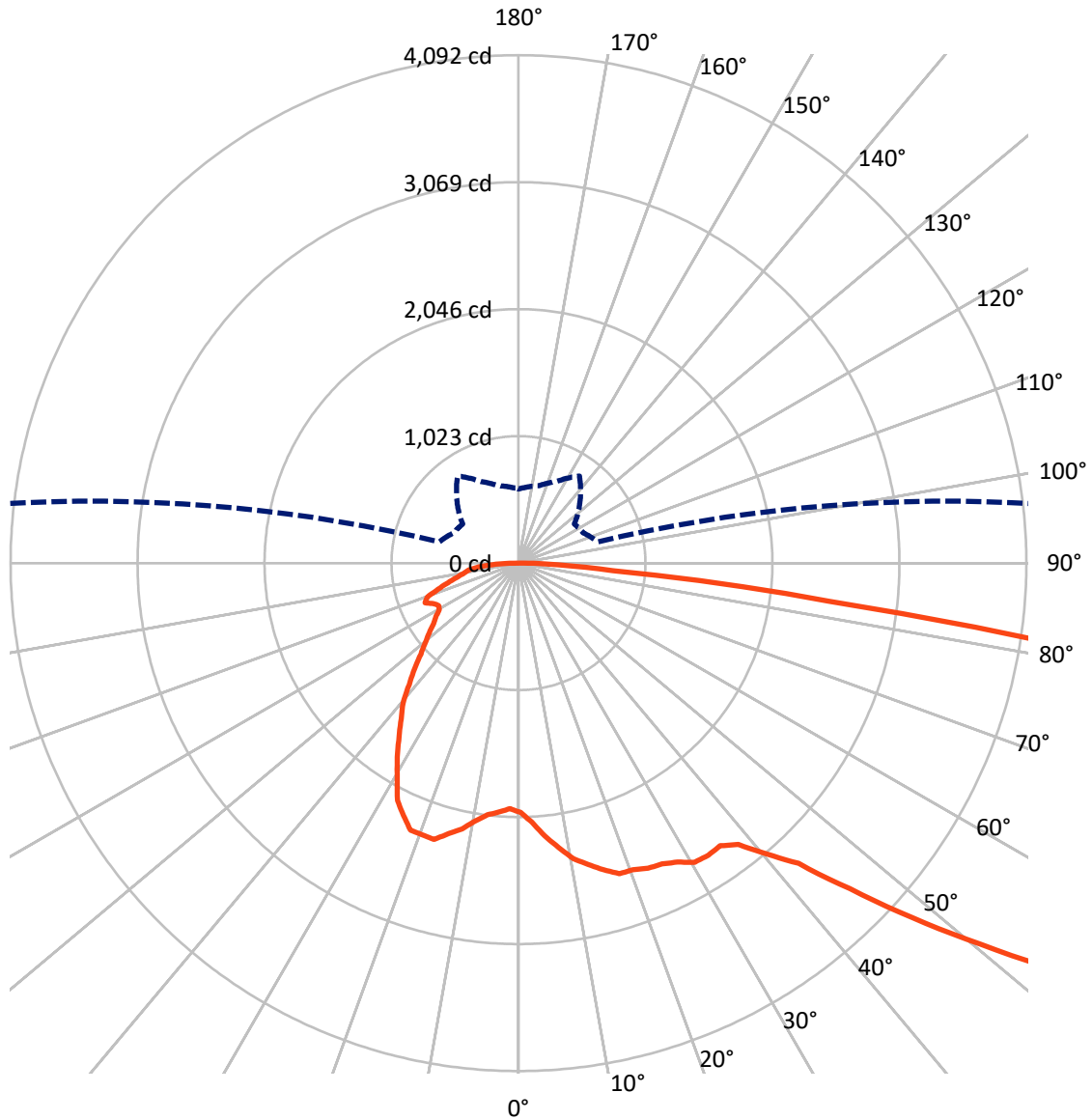
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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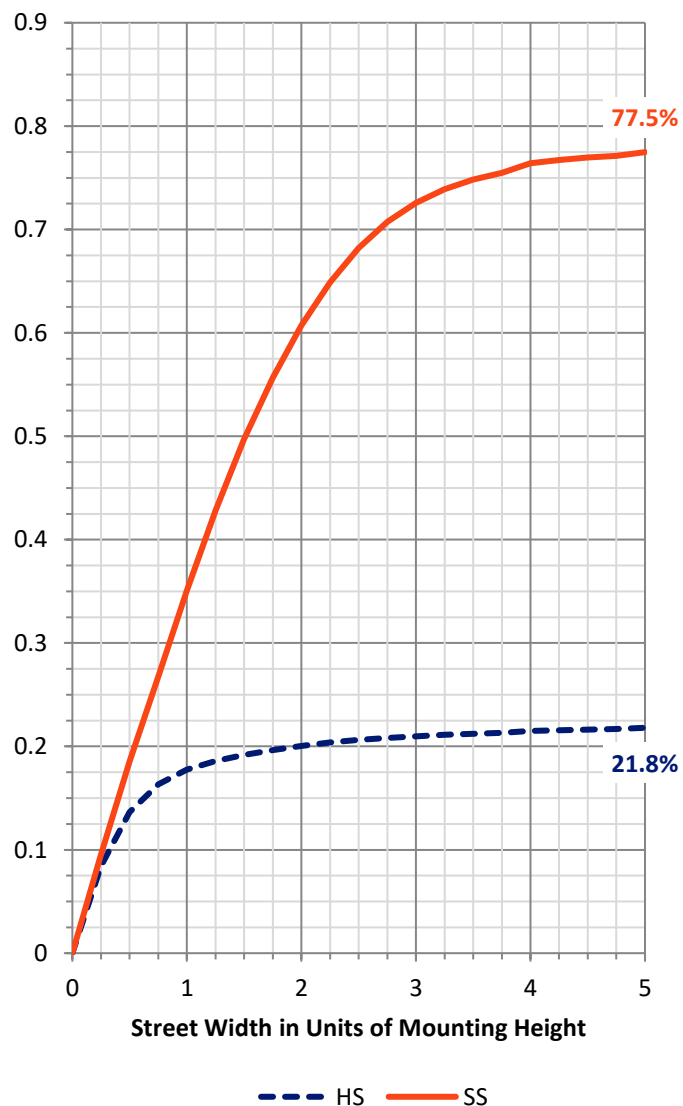
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4340.0	0.0	4340.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15156.3	0.0	15156.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	19496.2	0.0	19496.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.1
10°-20°	683.5	3.5
20°-30°	1154.3	5.9
30°-40°	1597.4	8.2
40°-50°	2284.9	11.7
50°-60°	3685.3	18.9
60°-70°	5435.3	27.9
70°-80°	3946.9	20.2
80°-90°	503.1	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°	19496.2	100.0
0°-180°	19496.2	100.0

Coefficient of Utilization



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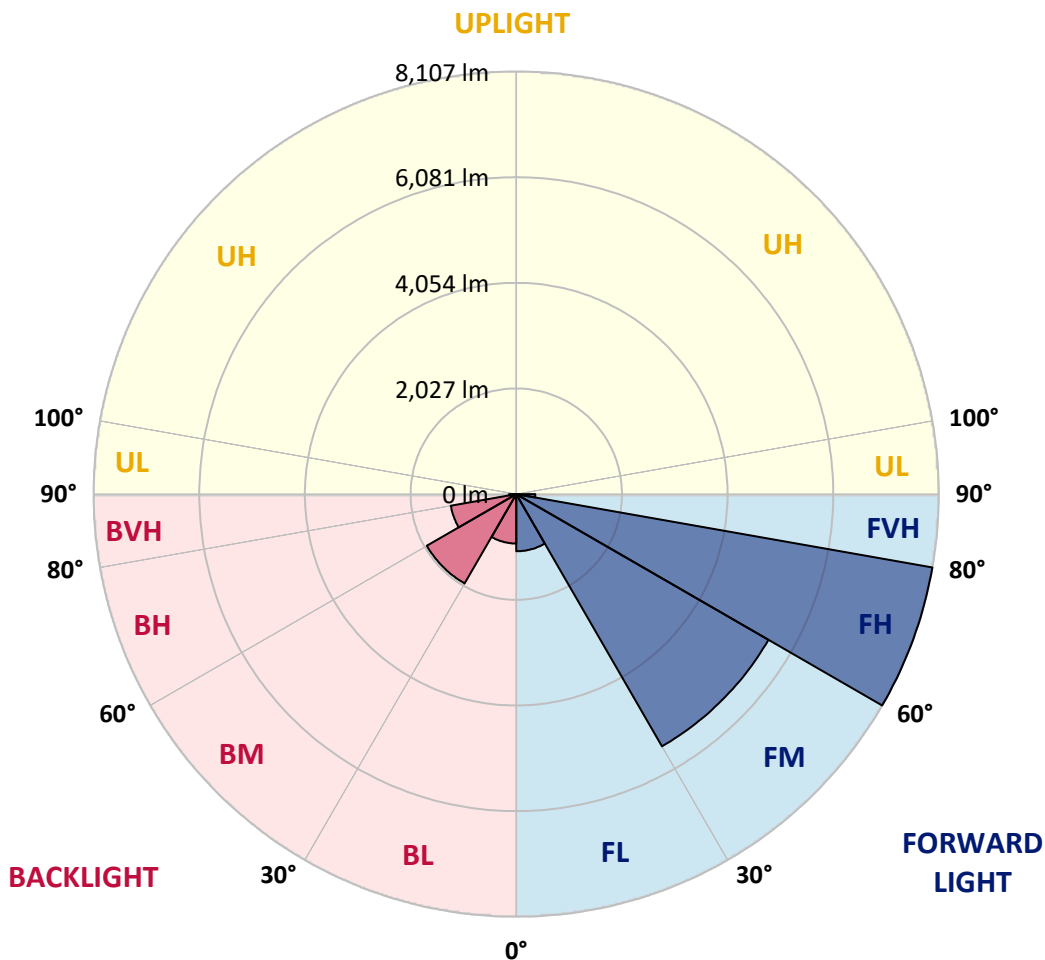
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.7	5.6			
FM (30°-60°)	5586.9	28.7			
FH (60°-80°)	8107.4	41.6			G4/12000
FVH (80°-90°)	366.2	1.9			G3/500
BL (0°-30°)	947.6	4.9	B2/1000		
BM (30°-60°)	1980.6	10.2	B2/2500		
BH (60°-80°)	1274.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	136.9	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	2115.0	2127.6	2115.0	2112.9	2091.9	2077.1	2089.8	2070.8	2049.8	2041.4	2022.5
5°	2308.4	2310.5	2287.4	2289.5	2245.3	2199.1	2207.5	2150.7	2089.8	2066.6	2028.8
7.5°	2506.0	2482.9	2449.3	2438.7	2369.4	2318.9	2312.6	2262.1	2167.5	2115.0	2062.4
10°	2634.3	2642.7	2588.0	2541.8	2482.9	2421.9	2419.8	2325.2	2270.6	2192.8	2125.5
12.5°	2747.8	2749.9	2703.6	2630.1	2556.5	2480.8	2491.3	2449.3	2356.8	2283.2	2215.9
15°	2836.1	2823.5	2773.0	2705.7	2628.0	2569.1	2562.8	2527.0	2449.3	2388.3	2276.9
17.5°	2861.3	2855.0	2804.6	2733.1	2657.4	2613.2	2630.1	2571.2	2539.7	2485.0	2377.8
20°	2813.0	2798.2	2789.8	2709.9	2655.3	2651.1	2636.4	2649.0	2596.4	2546.0	2468.2
22.5°	2724.7	2718.4	2714.2	2651.1	2625.9	2644.8	2670.0	2688.9	2680.5	2632.2	2543.9
25°	2634.3	2663.7	2636.4	2606.9	2642.7	2691.0	2684.7	2745.7	2745.7	2731.0	2657.4
27.5°	2697.3	2678.4	2657.4	2642.7	2655.3	2731.0	2726.8	2800.4	2827.7	2800.4	2716.3
30°	2855.0	2836.1	2775.1	2709.9	2693.1	2775.1	2796.1	2861.3	2873.9	2806.7	2735.2
32.5°	3151.4	3140.9	3044.2	2852.9	2749.9	2796.1	2806.7	2880.2	2869.7	2827.7	2798.2
35°	3590.8	3555.1	3420.5	3096.8	2869.7	2823.5	2796.1	2855.0	2895.0	2873.9	2846.6
37.5°	4072.3	4032.3	3866.3	3456.3	3086.3	2897.1	2876.0	2924.4	2970.6	2960.1	2903.4
40°	4532.7	4532.7	4383.4	3906.2	3407.9	3075.8	3080.0	3025.3	3067.4	3048.4	3058.9
42.5°	4986.8	4970.0	4909.0	4433.9	3752.7	3374.3	3307.0	3170.4	3246.1	3239.7	3254.5
45°	5447.2	5434.6	5417.8	4925.8	4246.8	3778.0	3742.2	3496.2	3565.6	3536.2	3599.2
47.5°	5815.1	5829.9	5829.9	5474.6	4774.5	4316.2	4263.6	3874.7	4007.1	4021.8	4036.5
50°	6128.4	6134.7	6128.4	5998.0	5363.1	4932.1	4824.9	4429.7	4562.1	4677.8	4812.3
52.5°	6561.5	6569.9	6540.5	6490.0	6162.0	5579.7	5459.8	5020.4	5291.7	5413.6	5655.4
55°	7095.5	7032.4	6977.8	7015.6	6929.4	6292.4	6168.3	5630.1	6038.0	6199.9	6683.4
57.5°	7194.3	7249.0	7387.7	7688.4	7812.4	6986.2	6914.7	6378.6	6881.0	7021.9	7829.2
60°	7543.3	7452.9	7793.5	8445.2	8584.0	7890.2	7816.6	7198.5	7719.9	7867.1	8886.7
62.5°	7772.4	7768.2	8272.8	9046.5	9361.8	8827.8	8678.6	8264.4	8626.0	8769.0	10038.8
65°	7705.2	7766.1	8661.7	9399.7	10011.5	9893.7	9807.5	9181.0	9658.3	9645.7	10789.3
67.5°	7091.3	7263.7	8415.8	9654.1	10978.6	11193.0	11165.7	10469.8	10497.1	10230.1	11123.6
70°	6239.8	6181.0	7375.1	9389.2	11462.1	12734.0	12727.7	11428.5	11251.9	10358.4	10164.9
72°	4793.4	4728.2	5710.0	8062.6	11207.7	13350.0	13539.2	12092.8	11243.5	9826.5	8396.8
72.5°	4351.9	4295.1	5272.7	7589.5	10926.0	13509.8	13421.5	12118.0	11155.2	9576.3	7843.9
75°	2003.6	1938.4	2634.3	4646.2	8523.0	11970.9	12271.5	11340.2	9742.4	7623.2	4698.8
77.5°	597.1	578.2	847.3	1875.3	4953.2	8819.4	8935.1	8556.6	6801.2	4175.3	1742.9
80°	332.2	334.3	437.3	702.2	2178.1	5098.2	5514.5	5285.3	3336.5	1379.2	580.3
82.5°	185.0	195.5	273.3	416.3	1000.7	2339.9	2518.6	2428.2	1206.8	647.5	317.5
85°	96.7	100.9	143.0	222.9	567.6	740.0	761.1	815.7	626.5	441.5	170.3
87.5°	37.8	37.8	52.6	92.5	210.2	229.2	206.0	250.2	359.5	285.9	84.1
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°	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	2039.3	2022.5	2020.4	1993.0	2001.5	1978.3	1980.4	1976.2	1978.3	1974.1	1963.6
5°	2028.8	2016.2	1980.4	2003.6	1982.5	2012.0	2035.1	2026.7	2033.0	2030.9	2033.0
7.5°	2043.5	2026.7	2022.5	2009.9	2028.8	2041.4	2060.3	2112.9	2108.7	2115.0	2127.6
10°	2087.6	2068.7	2056.1	2075.0	2064.5	2104.5	2125.5	2152.8	2201.2	2203.3	2178.1
12.5°	2173.8	2161.2	2136.0	2140.2	2175.9	2188.6	2201.2	2218.0	2249.5	2243.2	2266.4
15°	2272.7	2245.3	2230.6	2226.4	2234.8	2249.5	2247.4	2264.2	2281.1	2295.8	2289.5
17.5°	2344.1	2308.4	2312.6	2333.6	2331.5	2327.3	2300.0	2291.6	2300.0	2308.4	2304.2
20°	2417.7	2421.9	2390.4	2371.5	2363.1	2321.0	2300.0	2274.8	2249.5	2262.1	2281.1
22.5°	2510.2	2491.3	2445.1	2388.3	2346.2	2321.0	2255.8	2211.7	2211.7	2224.3	2218.0
25°	2615.3	2575.4	2495.5	2392.5	2339.9	2232.7	2186.5	2180.2	2163.3	2182.3	2190.7
27.5°	2697.3	2661.6	2552.3	2377.8	2232.7	2146.5	2119.2	2110.8	2138.1	2140.2	2173.8
30°	2731.0	2720.5	2560.7	2339.9	2123.4	1984.6	1967.8	2005.7	2035.1	2079.2	2081.3
32.5°	2775.1	2779.3	2573.3	2251.6	1980.4	1841.7	1816.4	1862.7	1946.8	1982.5	2009.9
35°	2848.7	2869.7	2562.8	2142.3	1829.1	1696.6	1692.4	1705.0	1787.0	1850.1	1885.8
37.5°	2976.9	2972.7	2560.7	2012.0	1709.2	1570.5	1536.8	1541.0	1595.7	1648.3	1641.9
40°	3149.3	3132.5	2554.4	1841.7	1553.6	1463.2	1406.5	1385.5	1381.3	1366.5	1370.7
42.5°	3384.8	3351.2	2552.3	1669.3	1412.8	1316.1	1276.1	1221.5	1181.5	1105.8	1110.0
45°	3712.8	3653.9	2497.6	1507.4	1274.0	1194.1	1133.2	1093.2	1007.0	912.4	912.4
47.5°	4219.4	4028.1	2499.7	1328.7	1139.5	1074.3	1032.3	962.9	870.4	794.7	786.3
50°	4965.8	4528.5	2428.2	1187.8	1030.2	986.0	941.9	862.0	773.7	721.1	727.4
52.5°	5928.7	5274.8	2426.1	1061.7	944.0	912.4	864.1	792.6	727.4	693.8	681.2
55°	7076.6	6262.9	2501.8	958.7	855.7	838.8	817.8	759.0	695.9	666.4	664.3
57.5°	8251.8	7227.9	2623.8	885.1	780.0	792.6	777.9	731.6	681.2	647.5	643.3
60°	9296.7	7993.2	2377.8	796.8	712.7	740.0	761.1	721.1	693.8	691.7	677.0
62.5°	10085.0	8321.2	1808.0	729.5	677.0	727.4	784.2	809.4	796.8	813.6	815.7
65°	10373.1	8123.5	1244.6	693.8	649.6	756.9	883.0	874.6	801.0	769.5	786.3
67.5°	9969.4	7322.5	922.9	651.7	630.7	817.8	939.8	834.6	723.2	719.0	706.4
70°	8573.4	6206.2	752.6	607.6	599.2	784.2	914.5	773.7	681.2	653.8	641.2
72°	6830.6	4833.3	660.1	576.0	548.7	700.1	855.7	725.3	645.4	611.8	597.1
72.5°	6235.6	4480.1	647.5	561.3	538.2	681.2	826.2	710.6	637.0	607.6	584.5
75°	3420.5	2293.7	569.7	515.1	454.1	588.7	765.3	666.4	601.3	559.2	555.0
77.5°	1271.9	889.3	492.0	456.2	393.1	508.8	695.9	632.8	546.6	494.1	483.5
80°	487.7	468.8	401.6	384.7	330.1	445.7	641.2	567.6	464.6	412.1	395.2
82.5°	296.4	273.3	304.8	300.6	252.3	405.8	603.4	531.9	412.1	334.3	323.8
85°	161.9	161.9	212.3	203.9	176.6	323.8	456.2	353.2	260.7	214.4	218.6
87.5°	71.5	84.1	113.5	107.2	96.7	182.9	222.9	187.1	130.3	88.3	94.6
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)