

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: P478288

Luminaire Tested: **IFLD-S-SA6A-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478288
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

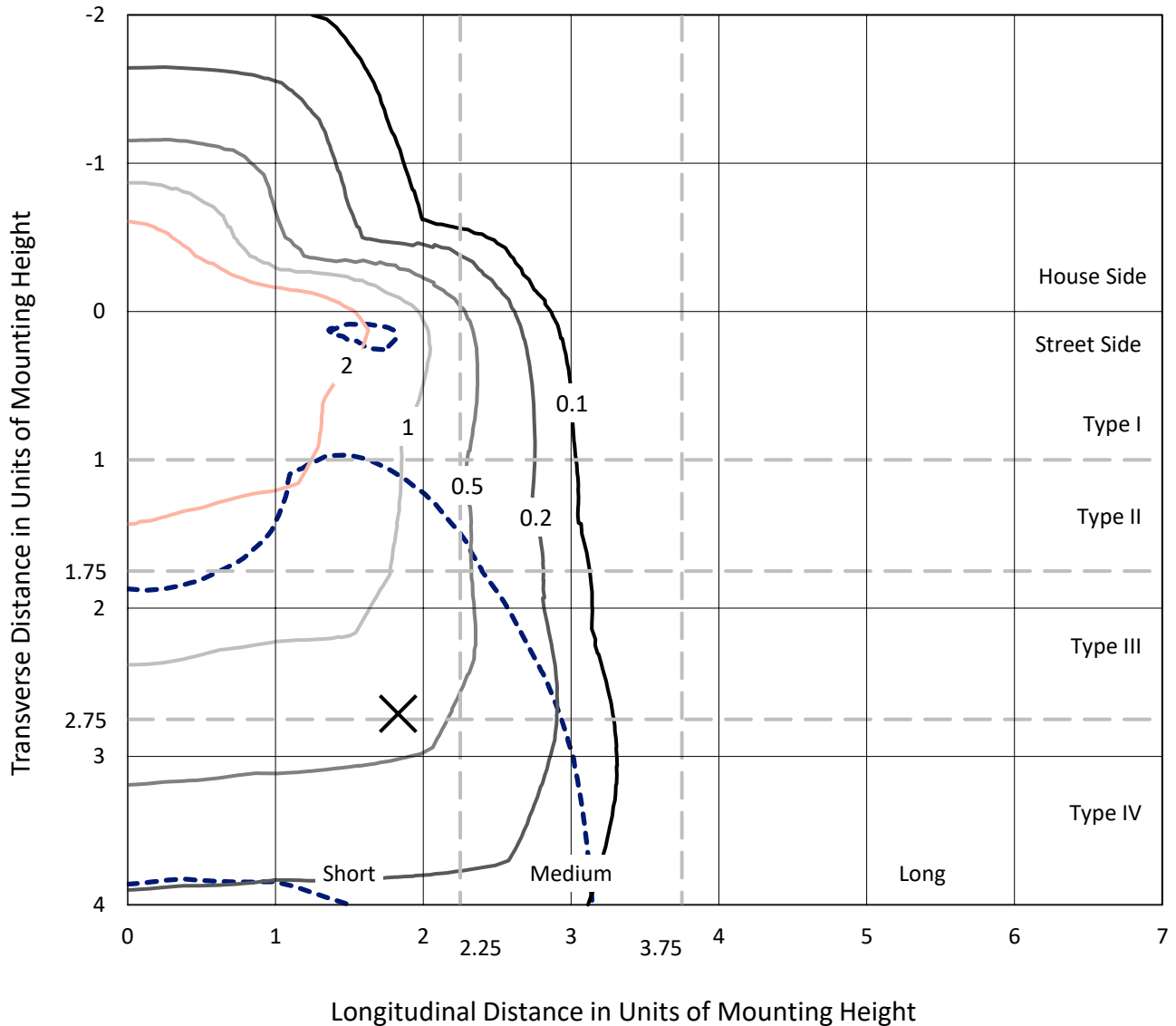
Lumens per Lamp: N/A
Luminaire Lumens: 20326.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

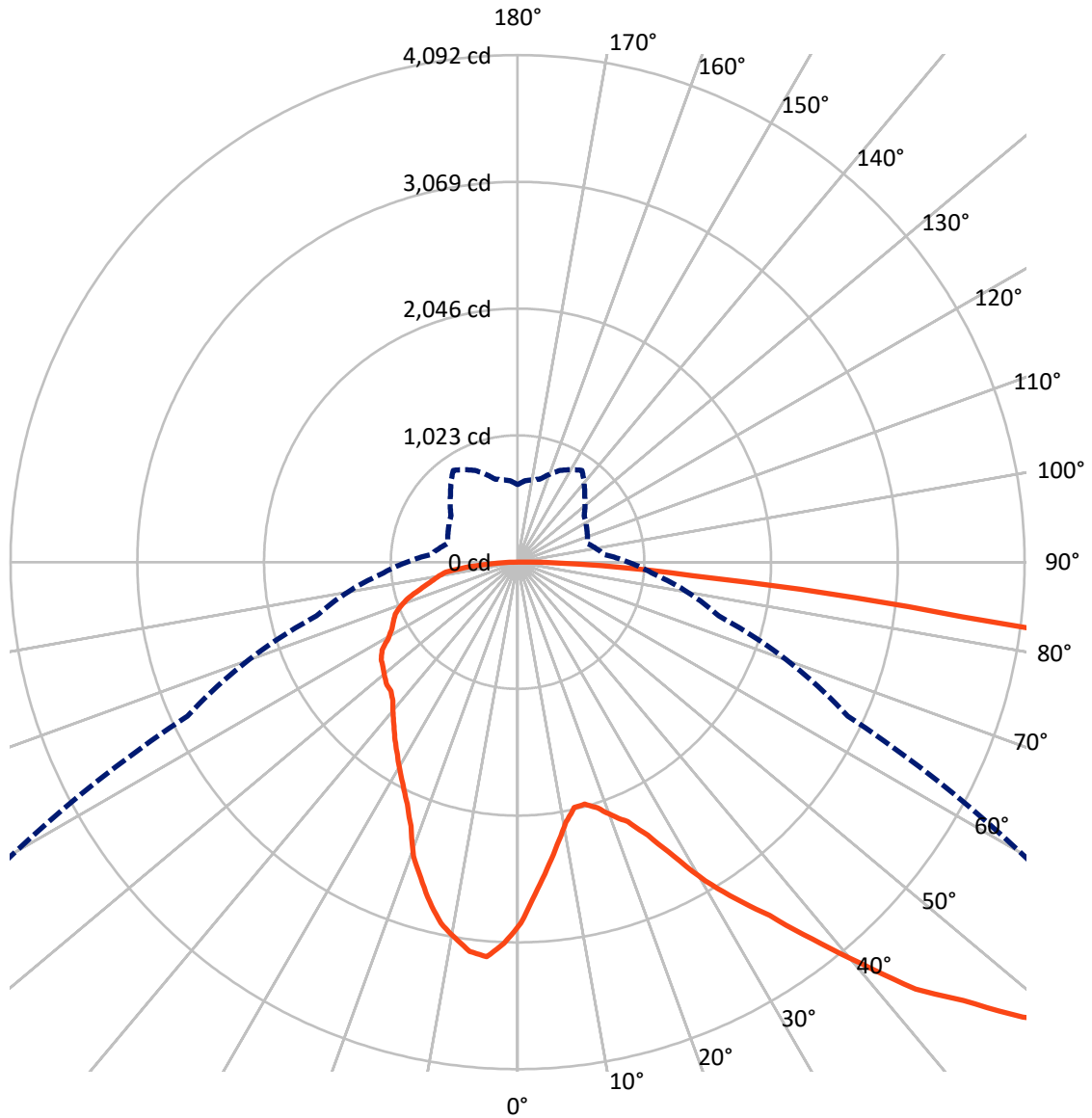
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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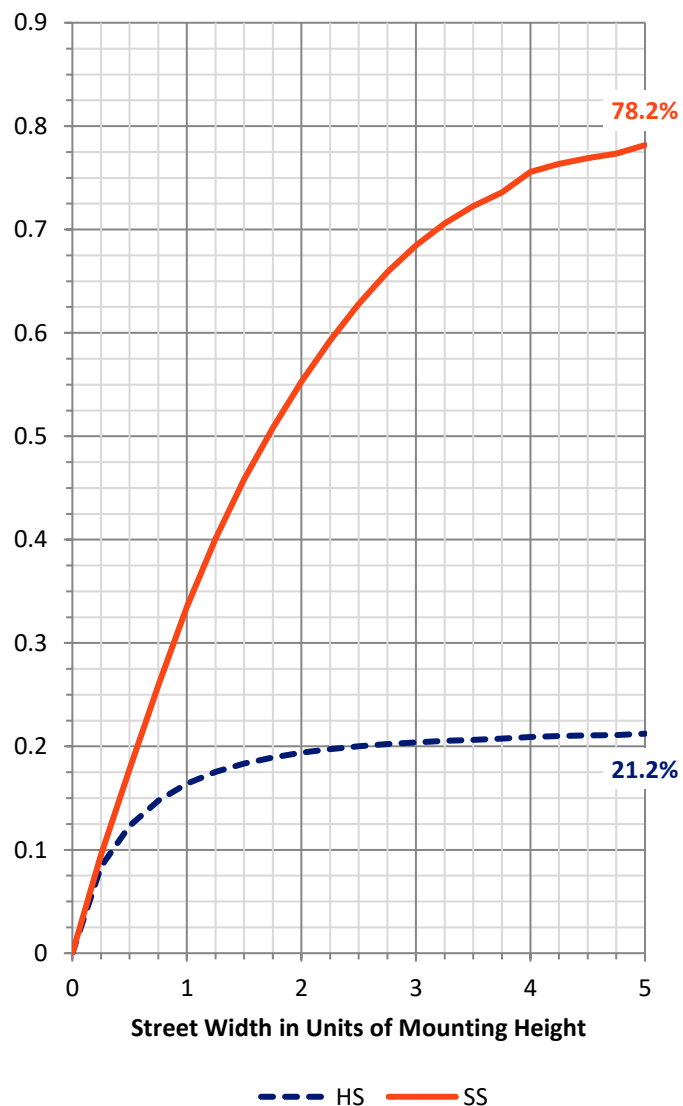
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4390.7	0.0	4390.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15935.5	0.0	15935.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	20326.2	0.0	20326.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	1.3
10°-20°	752.7	3.7
20°-30°	1238.8	6.1
30°-40°	1852.6	9.1
40°-50°	2746.5	13.5
50°-60°	3958.0	19.5
60°-70°	5050.9	24.8
70°-80°	3930.4	19.3
80°-90°	527.3	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°	20326.2	100.0
0°-180°	20326.2	100.0

Coefficient of Utilization



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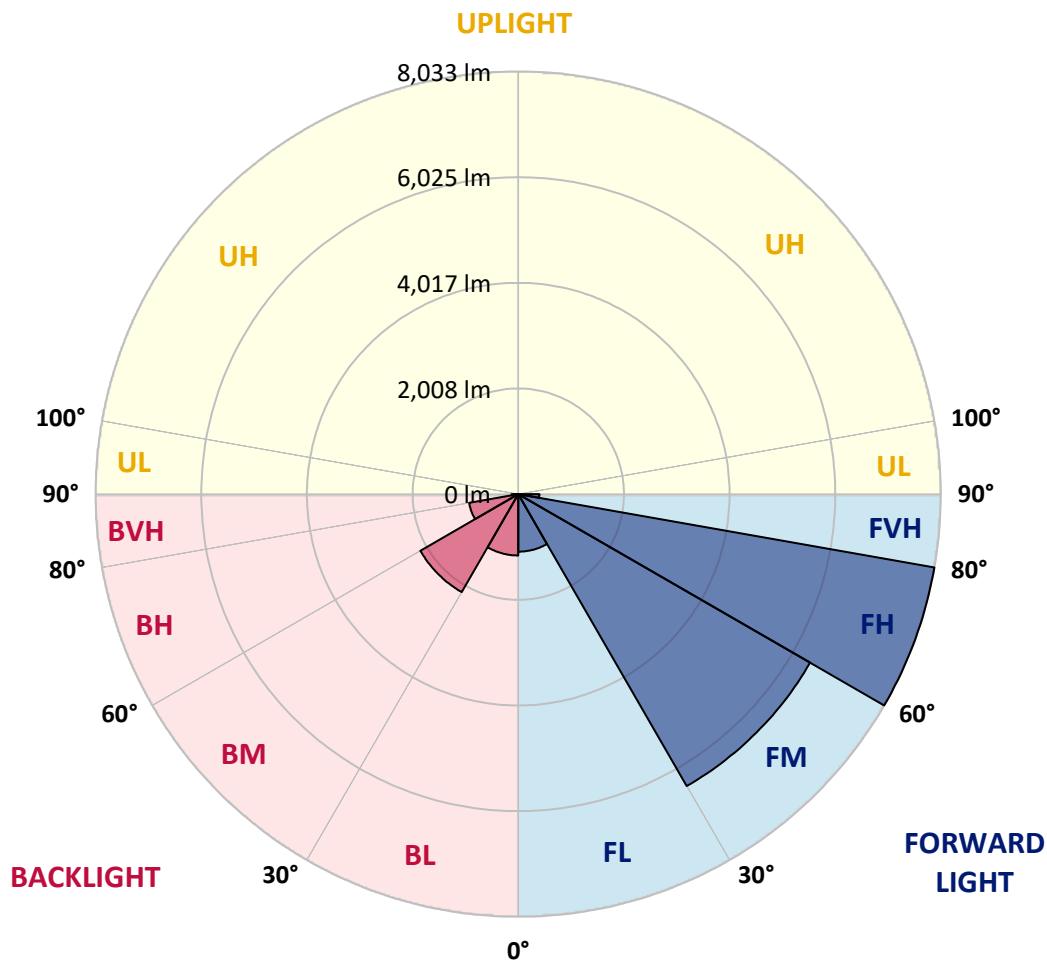
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.9	5.4			
FM (30°-60°)	6407.0	31.5			
FH (60°-80°)	8033.3	39.5			G4/12000
FVH (80°-90°)	401.4	2.0			G3/500
BL (0°-30°)	1166.6	5.7	B3/2500		
BM (30°-60°)	2150.1	10.6	B2/2500		
BH (60°-80°)	948.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	125.9	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°	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1
2.5°	2611.1	2619.7	2647.6	2654.1	2684.1	2666.9	2703.5	2767.9	2804.5	2858.2	2922.7
5°	2404.8	2368.2	2385.4	2452.0	2486.4	2495.0	2533.7	2643.3	2712.1	2791.6	2911.9
7.5°	2161.9	2155.5	2189.9	2232.8	2301.6	2308.1	2394.0	2490.7	2632.6	2808.8	2950.6
10°	1996.4	2024.4	2043.7	2088.9	2136.1	2136.1	2245.7	2413.4	2574.5	2744.3	2959.2
12.5°	1987.9	1970.7	1975.0	1998.6	2033.0	2076.0	2179.1	2329.5	2533.7	2731.4	2995.7
15°	2015.8	2022.2	1983.6	2013.6	2026.5	2041.6	2155.5	2325.2	2507.9	2776.5	3058.1
17.5°	2164.1	2127.5	2067.4	2039.4	2084.6	2084.6	2161.9	2295.2	2512.2	2800.2	3148.3
20°	2280.1	2280.1	2181.3	2151.2	2183.4	2177.0	2230.7	2329.5	2533.7	2847.5	3249.3
22.5°	2475.7	2503.6	2340.3	2278.0	2275.8	2293.0	2340.3	2424.1	2593.9	2914.1	3346.0
25°	2757.2	2763.7	2574.5	2510.1	2441.3	2469.2	2477.8	2561.6	2647.6	2991.4	3455.6
27.5°	3071.0	3066.7	2892.6	2731.4	2686.3	2692.7	2645.5	2701.3	2727.1	3015.1	3612.5
30°	3419.1	3380.4	3249.3	3021.5	2985.0	2944.2	2841.0	2838.9	2892.6	3148.3	3829.6
32.5°	3646.9	3597.5	3507.2	3343.9	3242.9	3247.2	3083.9	3081.7	3034.4	3294.5	4018.7
35°	3870.4	3795.2	3771.5	3603.9	3502.9	3513.7	3382.6	3365.4	3279.4	3515.8	4330.3
37.5°	4139.0	4072.4	4108.9	3982.2	3857.5	3805.9	3745.8	3724.3	3612.5	3827.4	4755.8
40°	4435.6	4414.1	4390.5	4328.1	4252.9	4257.2	4192.8	4171.3	4005.8	4203.5	5164.1
42.5°	4835.3	4753.7	4631.2	4672.0	4710.7	4751.5	4730.0	4674.1	4502.2	4586.0	5619.7
45°	5207.1	5099.6	4874.0	4886.9	5045.9	5078.2	5338.2	5331.7	4985.7	5071.7	6137.6
47.5°	5458.5	5409.1	5273.7	5258.7	5486.5	5484.3	5952.8	5952.8	5495.1	5555.2	6694.2
50°	5832.5	5703.5	5645.5	5720.7	5836.8	5916.3	6580.3	6621.2	5995.8	6060.3	7422.7
52.5°	6270.9	6109.7	5963.6	6157.0	6363.3	6414.9	7201.4	7184.2	6380.5	6646.9	8275.9
55°	6634.1	6552.4	6451.4	6563.1	6900.5	6965.0	7824.6	7665.6	6765.1	7132.6	8686.4
57.5°	7057.4	7106.8	7128.3	7100.4	7502.3	7603.3	8535.9	8080.3	7096.1	7459.3	8927.1
60°	7695.7	7725.8	7753.7	7820.3	8245.8	8387.7	9099.0	8600.4	7304.5	7648.4	8946.4
62.5°	8667.0	8551.0	8613.3	8843.3	9184.9	9346.1	9928.5	8965.7	7463.6	7762.3	8314.6
65°	9778.1	9621.2	9556.7	9853.3	10738.7	10609.8	10964.3	9238.7	7233.6	7336.8	7051.0
67.5°	10904.2	10921.4	10755.9	11351.2	12436.4	12436.4	11927.1	9369.8	6610.4	5946.4	4944.9
70°	11798.2	11851.9	11942.2	13096.2	14815.4	15075.4	13119.8	8832.5	5340.3	3958.5	2703.5
72.5°	11785.3	11624.1	12086.1	14211.5	16977.3	16760.3	13369.1	6984.3	3333.1	1938.4	1240.0
73°	11520.9	11385.6	11890.6	14200.8	17065.4	16861.3	13186.4	6438.5	2939.9	1680.5	1102.5
75°	9408.4	9163.5	10023.1	12861.9	15788.9	15945.8	11202.9	4199.2	1611.8	1035.8	775.8
77.5°	4289.5	4396.9	5516.6	8628.4	12167.8	12352.6	7364.7	1815.9	883.3	726.4	571.6
80°	1377.5	1446.3	2146.9	4289.5	7626.9	7960.0	3404.1	825.2	629.7	556.6	427.7
82.5°	526.5	524.4	900.4	1783.7	3614.7	3827.4	1244.3	502.9	468.5	410.5	303.0
85°	184.8	193.4	339.5	704.9	1422.7	1489.3	432.0	279.4	324.5	275.1	174.1
87.5°	64.5	66.6	120.3	255.7	490.0	517.9	120.3	111.7	161.2	159.0	88.1
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°	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1	2914.1
2.5°	2944.2	2963.5	2970.0	3047.3	3047.3	3047.3	3077.4	3077.4	3068.8	3047.3	3098.9
5°	2957.1	2991.4	3058.1	3124.7	3141.9	3156.9	3197.8	3163.4	3176.3	3154.8	3174.1
7.5°	2993.6	3040.9	3165.5	3206.4	3178.4	3210.6	3167.7	3144.0	3120.4	3129.0	3098.9
10°	3055.9	3116.1	3174.1	3249.3	3195.6	3163.4	3075.3	3053.8	2978.6	2952.8	2976.4
12.5°	3133.3	3206.4	3305.2	3277.3	3174.1	3081.7	2987.2	2896.9	2851.8	2787.3	2804.5
15°	3210.6	3294.5	3309.5	3262.2	3133.3	3017.2	2845.3	2718.5	2673.4	2615.4	2645.5
17.5°	3294.5	3374.0	3348.2	3225.7	3051.6	2875.4	2679.8	2555.2	2460.6	2424.1	2424.1
20°	3419.1	3457.8	3417.0	3165.5	2952.8	2720.7	2531.6	2389.7	2295.2	2280.1	2256.5
22.5°	3515.8	3578.1	3395.5	3077.4	2808.8	2518.7	2301.6	2247.9	2219.9	2196.3	2166.2
25°	3640.5	3638.3	3356.8	2995.7	2561.6	2278.0	2146.9	2142.6	2129.7	2121.1	2161.9
27.5°	3758.7	3709.2	3311.7	2793.7	2305.9	2095.3	2024.4	2071.7	2091.0	2078.1	2095.3
30°	3945.6	3864.0	3247.2	2578.8	2080.3	1910.5	1923.4	1987.9	2020.1	2039.4	2013.6
32.5°	4143.3	4018.7	3113.9	2355.3	1880.4	1794.4	1824.5	1891.1	1929.8	1951.3	1975.0
35°	4429.1	4139.0	2978.6	2063.1	1736.4	1723.5	1740.7	1777.2	1833.1	1848.2	1854.6
37.5°	4781.6	4321.7	2795.9	1828.8	1624.7	1639.7	1656.9	1669.8	1671.9	1699.9	1689.1
40°	5134.0	4476.4	2529.4	1605.3	1508.6	1590.3	1581.7	1558.0	1538.7	1512.9	1506.5
42.5°	5443.5	4611.8	2232.8	1416.2	1405.5	1538.7	1510.8	1450.6	1405.5	1386.1	1353.9
45°	5791.6	4803.1	1934.1	1298.0	1326.0	1476.4	1467.8	1375.4	1317.4	1248.6	1240.0
47.5°	6242.9	5002.9	1648.3	1175.5	1250.7	1452.7	1457.0	1338.8	1255.0	1162.6	1149.7
50°	6821.0	5290.9	1431.3	1123.9	1205.6	1418.4	1424.8	1289.4	1179.8	1085.3	1076.7
52.5°	7375.5	5585.3	1250.7	1044.4	1175.5	1377.5	1392.6	1244.3	1117.5	999.3	1005.7
55°	7654.8	5477.9	1096.0	986.4	1106.7	1310.9	1366.8	1212.1	1022.9	941.3	939.1
57.5°	7717.2	5213.5	973.5	926.2	1048.7	1240.0	1323.8	1115.3	980.0	911.2	902.6
60°	7513.0	4751.5	876.8	861.8	975.7	1166.9	1224.9	1063.8	937.0	881.1	868.2
62.5°	7010.1	4272.3	810.2	831.7	913.3	1087.4	1162.6	1027.2	896.1	857.5	829.5
65°	5748.7	3513.7	756.5	773.7	848.9	1010.0	1123.9	986.4	859.6	823.1	820.9
67.5°	3982.2	2422.0	713.5	745.7	797.3	954.2	1085.3	941.3	812.3	799.4	782.2
70°	2039.4	1291.6	657.6	683.4	741.4	883.3	1016.5	894.0	762.9	760.8	739.3
72.5°	1033.7	756.5	593.1	631.8	672.6	790.8	930.5	831.7	700.6	676.9	642.6
73°	894.0	700.6	582.4	616.8	655.5	765.1	904.7	816.6	692.0	657.6	625.4
75°	651.2	552.3	522.2	556.6	586.7	689.8	818.8	747.9	636.1	599.6	569.5
77.5°	487.8	425.5	434.1	472.8	498.6	595.3	728.5	676.9	575.9	526.5	513.6
80°	358.9	324.5	358.9	395.4	414.8	524.4	664.0	586.7	485.7	429.8	419.1
82.5°	255.7	236.4	277.2	300.9	309.5	434.1	597.4	468.5	367.5	294.4	270.8
85°	146.1	144.0	187.0	184.8	191.3	253.6	393.3	311.6	236.4	180.5	176.2
87.5°	64.5	70.9	94.6	75.2	79.5	120.3	167.6	116.0	96.7	53.7	40.8
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)