

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: P481274

Luminaire Tested: **IFLD-S-SA2D-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481274
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

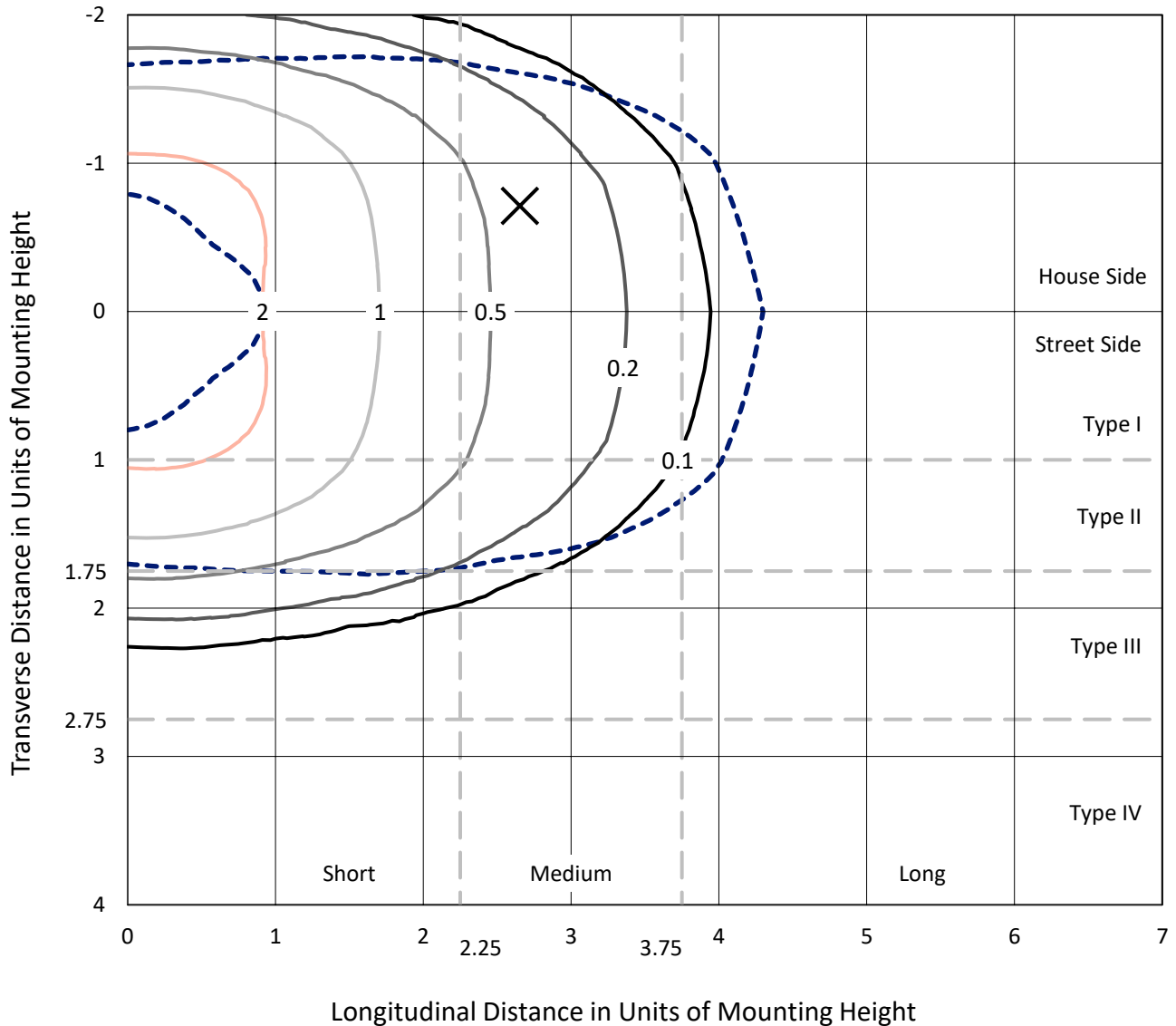
Lumens per Lamp: N/A
Luminaire Lumens: 16109.1 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 123.9
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

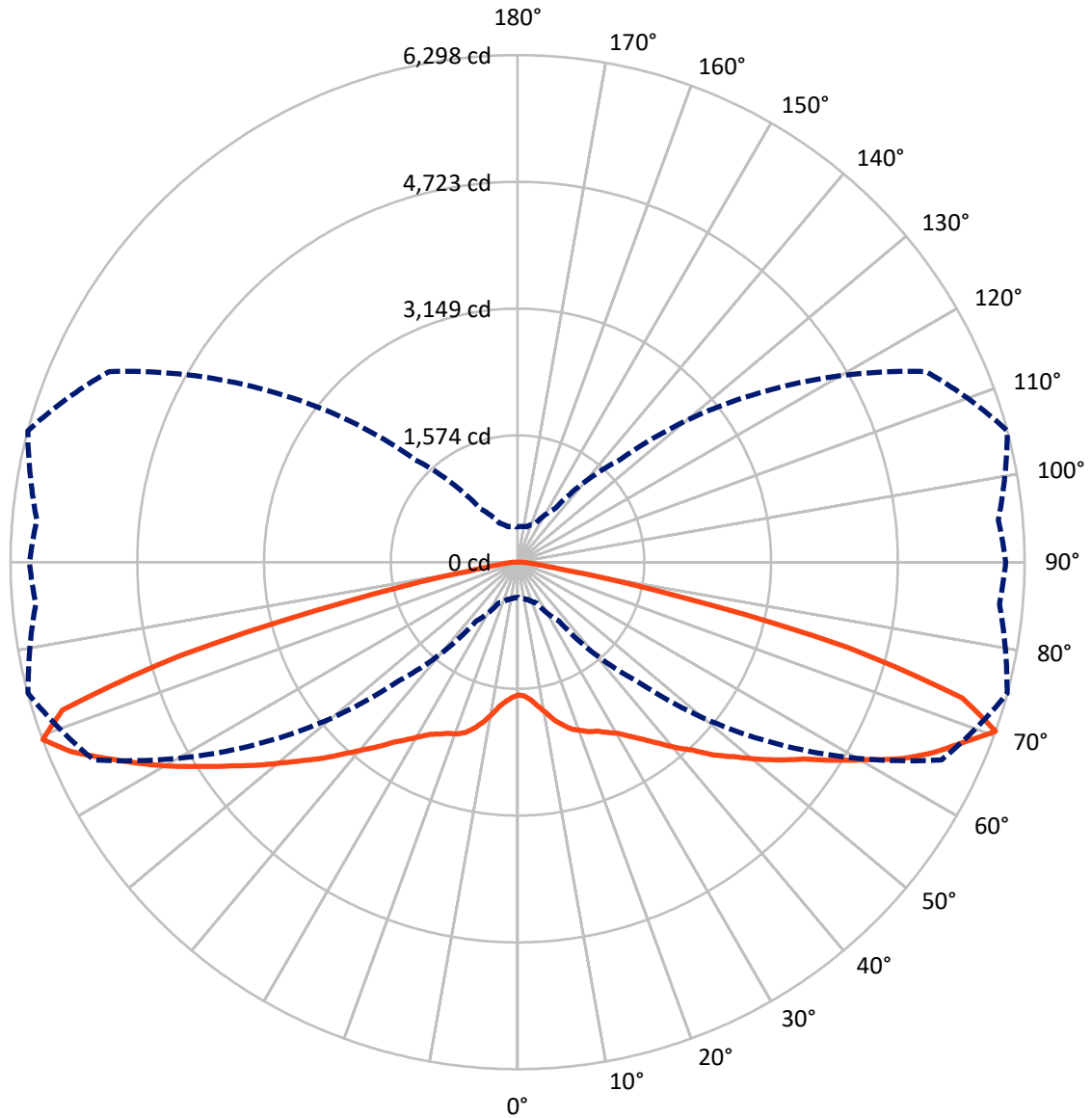
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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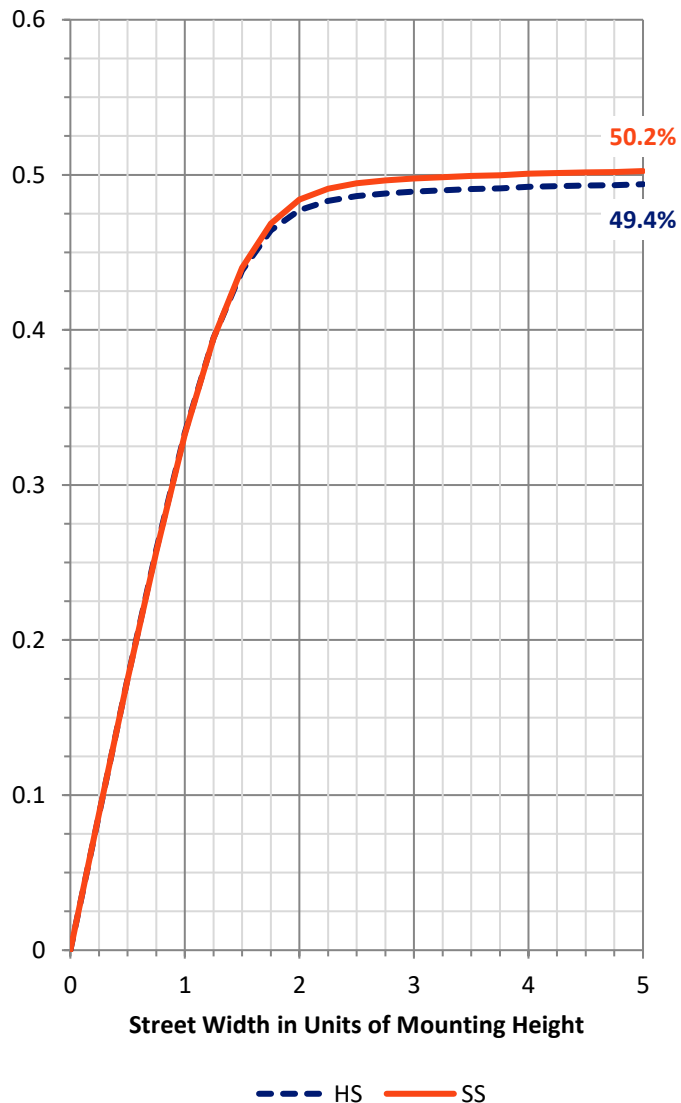
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7997.3	0.0	7997.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8111.9	0.0	8111.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	16109.1	0.0	16109.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.0
10°-20°	559.0	3.5
20°-30°	1082.5	6.7
30°-40°	1830.9	11.4
40°-50°	2920.9	18.1
50°-60°	3998.1	24.8
60°-70°	3768.5	23.4
70°-80°	1660.1	10.3
80°-90°	124.9	0.8
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°	16109.1	100.0
0°-180°	16109.1	100.0

Coefficient of Utilization



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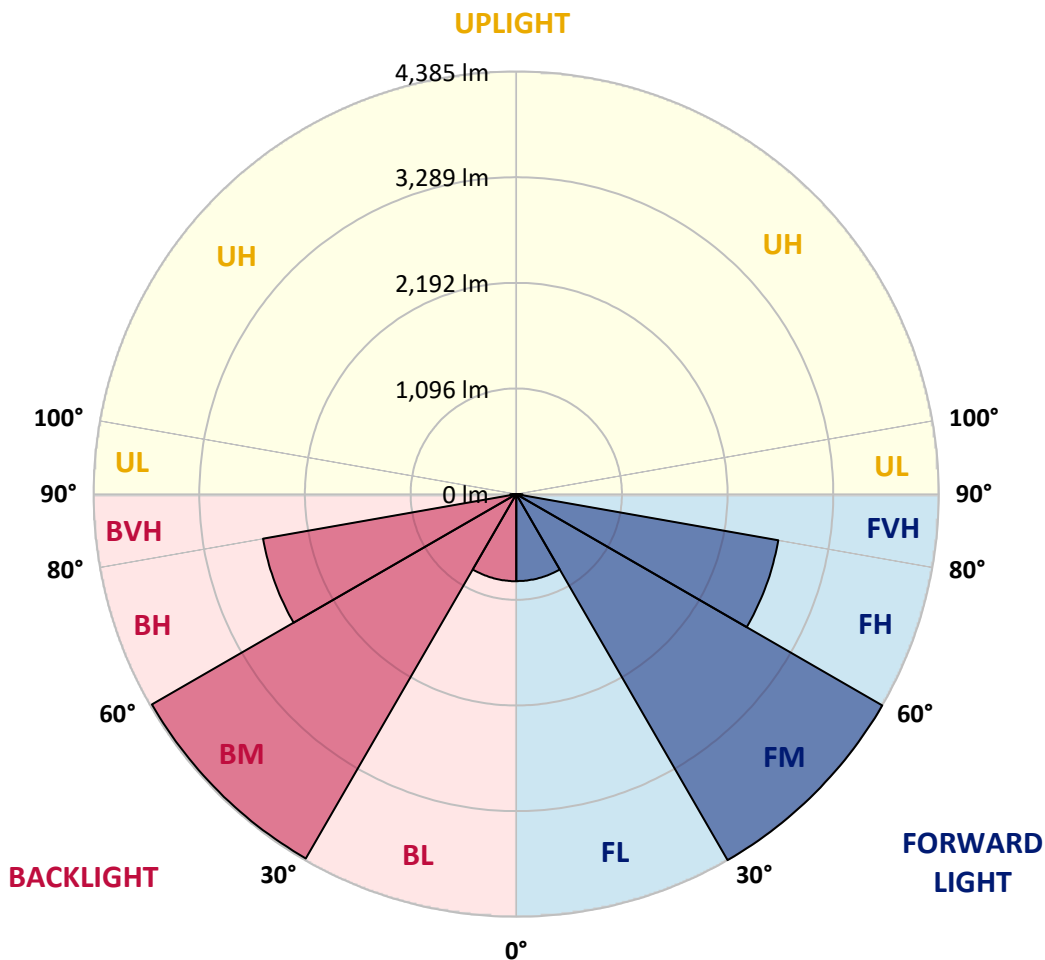
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.4	5.6			
FM (30°-60°)	4384.8	27.2			
FH (60°-80°)	2760.9	17.1			G2/5000
FVH (80°-90°)	63.8	0.4			G1/100
BL (0°-30°)	903.3	5.6	B2/1000		
BM (30°-60°)	4365.2	27.1	B3/5000		
BH (60°-80°)	2667.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	61.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1639.1	1639.1	1637.4	1646.1	1654.8	1658.2	1665.2	1666.9	1677.3	1668.7	1686.0
5°	1633.9	1632.2	1646.1	1666.9	1666.9	1689.5	1703.4	1722.5	1727.7	1738.1	1741.6
7.5°	1670.4	1666.9	1660.0	1682.6	1701.7	1736.4	1755.5	1788.5	1800.6	1814.5	1830.1
10°	1693.0	1693.0	1686.0	1726.0	1743.3	1790.2	1831.9	1864.9	1911.8	1927.4	1929.1
12.5°	1696.4	1701.7	1722.5	1774.6	1823.2	1884.0	1915.2	1977.7	2024.6	2054.1	2064.6
15°	1748.5	1738.1	1760.7	1831.9	1903.1	1956.9	2012.5	2057.6	2125.3	2163.5	2187.8
17.5°	1795.4	1785.0	1826.7	1911.8	1984.7	2068.0	2116.6	2165.3	2213.9	2248.6	2250.3
20°	1870.1	1878.8	1915.2	2007.3	2102.8	2175.7	2231.2	2239.9	2264.2	2314.6	2305.9
22.5°	1962.1	1955.2	2031.6	2132.3	2236.5	2297.2	2328.5	2305.9	2293.8	2347.6	2359.7
25°	2054.1	2075.0	2144.4	2238.2	2363.2	2444.8	2453.5	2391.0	2345.8	2364.9	2359.7
27.5°	2194.8	2198.3	2271.2	2382.3	2509.1	2580.3	2575.0	2486.5	2399.7	2401.4	2404.9
30°	2375.4	2358.0	2437.9	2538.6	2663.6	2727.9	2736.5	2609.8	2493.4	2458.7	2467.4
32.5°	2549.0	2569.8	2639.3	2753.9	2845.9	2882.4	2863.3	2750.4	2599.4	2552.5	2557.7
35°	2771.3	2767.8	2863.3	2960.5	3030.0	3036.9	3021.3	2856.3	2714.0	2653.2	2628.9
37.5°	3009.1	3040.4	3102.9	3182.8	3255.7	3259.2	3174.1	3042.1	2866.8	2766.1	2795.6
40°	3274.8	3309.5	3354.7	3471.0	3524.8	3469.3	3382.5	3203.6	3021.3	2932.7	2946.6
42.5°	3509.2	3524.8	3616.9	3754.1	3780.1	3755.8	3627.3	3410.2	3198.4	3101.2	3108.1
45°	3724.5	3745.4	3865.2	3988.5	4049.2	4007.6	3858.2	3651.6	3405.0	3321.7	3288.7
47.5°	3922.5	3964.2	4080.5	4207.2	4301.0	4304.5	4120.4	3870.4	3609.9	3500.5	3498.8
50°	4056.2	4117.0	4231.6	4375.7	4512.8	4566.7	4382.6	4113.5	3833.9	3717.6	3705.4
52.5°	4129.1	4191.6	4306.2	4530.2	4683.0	4766.4	4679.5	4340.9	4096.1	3974.6	3955.5
55°	4040.6	4082.2	4269.8	4584.0	4820.2	4957.4	4900.1	4655.2	4356.6	4257.6	4275.0
57.5°	3663.8	3750.6	3981.5	4373.9	4816.7	5153.6	5148.4	4952.2	4657.0	4563.2	4566.7
60°	3016.1	3089.0	3373.8	3922.5	4622.2	5233.4	5417.5	5240.4	4993.8	4884.4	4881.0
62.5°	2128.8	2220.8	2550.7	3149.8	4049.2	5122.3	5726.6	5603.3	5323.7	5243.9	5273.4
65°	1191.2	1246.7	1552.3	2094.1	3085.5	4511.1	5782.1	5980.1	5658.9	5537.3	5542.5
67.5°	637.3	658.1	800.5	1099.1	1887.4	3478.0	5221.3	6197.1	6021.8	5811.7	5778.7
70°	437.6	444.5	481.0	562.6	892.5	2080.2	3938.1	5809.9	6294.4	6007.9	6063.4
72.5°	369.8	366.4	375.1	383.7	467.1	930.7	2311.1	4471.2	5941.9	5834.2	5813.4
75°	321.2	319.5	323.0	314.3	324.7	409.8	1022.7	2786.9	4349.6	4854.9	4933.1
77.5°	265.7	267.4	269.1	260.5	257.0	270.9	411.5	1224.1	2141.0	2363.2	2549.0
80°	201.4	204.9	218.8	210.1	196.2	197.9	243.1	409.8	614.7	557.4	574.7
82.5°	137.2	138.9	168.4	158.0	147.6	133.7	156.3	211.8	239.6	182.3	159.7
85°	97.2	95.5	109.4	100.7	93.8	67.7	93.8	119.8	144.1	90.3	81.6
87.5°	22.6	22.6	45.1	36.5	34.7	27.8	36.5	46.9	62.5	39.9	36.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1680.8	1665.2	1665.2	1661.7	1647.8	1644.4	1632.2	1635.7	1627.0	1618.3
5°	1739.9	1719.0	1719.0	1689.5	1661.7	1658.2	1644.4	1644.4	1630.5	1633.9
7.5°	1821.5	1802.4	1771.1	1745.1	1706.9	1691.2	1665.2	1661.7	1658.2	1651.3
10°	1918.7	1894.4	1863.1	1809.3	1778.1	1748.5	1722.5	1686.0	1677.3	1679.1
12.5°	2050.7	2012.5	1944.7	1897.9	1857.9	1819.7	1781.5	1727.7	1715.5	1720.8
15°	2144.4	2095.8	2028.1	2010.7	1956.9	1910.0	1847.5	1786.7	1765.9	1760.7
17.5°	2220.8	2180.9	2141.0	2114.9	2071.5	2014.2	1927.4	1857.9	1811.0	1805.8
20°	2283.3	2231.2	2222.6	2238.2	2184.4	2146.2	2040.2	1955.2	1892.7	1866.6
22.5°	2321.5	2288.5	2312.9	2326.7	2323.3	2259.0	2149.6	2050.7	1972.5	1948.2
25°	2363.2	2325.0	2411.8	2458.7	2470.9	2364.9	2279.9	2149.6	2073.2	2057.6
27.5°	2384.0	2397.9	2498.6	2597.6	2588.9	2507.3	2392.7	2276.4	2215.6	2187.8
30°	2444.8	2467.4	2620.2	2731.3	2733.1	2653.2	2566.4	2434.4	2366.7	2354.5
32.5°	2554.2	2582.0	2745.2	2863.3	2884.1	2823.4	2736.5	2654.9	2585.5	2557.7
35°	2637.6	2708.8	2892.8	3000.5	3056.0	3019.6	2970.9	2885.9	2812.9	2788.6
37.5°	2757.4	2856.3	3033.5	3179.3	3241.8	3238.3	3201.9	3109.9	3049.1	3028.2
40°	2929.3	3028.2	3189.7	3382.5	3498.8	3493.6	3472.8	3401.6	3311.3	3300.9
42.5°	3111.6	3193.2	3403.3	3623.8	3790.5	3773.2	3717.6	3634.2	3571.7	3557.8
45°	3288.7	3415.5	3609.9	3893.0	4018.0	4061.4	3995.4	3853.0	3781.8	3773.2
47.5°	3511.0	3611.7	3854.8	4108.3	4294.1	4301.0	4188.1	4056.2	3926.0	3953.7
50°	3708.9	3842.6	4089.2	4367.0	4589.2	4509.4	4365.3	4200.3	4106.5	4070.1
52.5°	3920.7	4084.0	4370.5	4653.5	4776.8	4696.9	4462.5	4278.4	4136.1	4120.4
55°	4229.8	4314.9	4690.0	4907.0	4946.9	4778.5	4433.0	4172.5	3988.5	3943.3
57.5°	4544.1	4643.1	4971.3	5158.8	5117.1	4733.4	4242.0	3839.1	3597.8	3533.5
60°	4861.9	4983.4	5259.5	5431.4	5216.1	4422.6	3702.0	3182.8	2901.5	2844.2
62.5°	5216.1	5374.1	5620.7	5681.4	4922.6	3807.9	2938.0	2297.2	2012.5	1917.0
65°	5530.4	5691.8	5995.7	5629.3	4299.3	2840.7	1899.6	1312.7	1102.6	1026.2
67.5°	5789.1	5971.4	6120.7	4981.7	3148.1	1663.5	989.7	691.1	612.9	585.2
70°	5994.0	6297.8	5599.8	3662.0	1798.9	810.9	534.8	454.9	444.5	437.6
72.5°	5815.1	5775.2	4181.2	2113.2	788.3	446.2	387.2	375.1	373.3	375.1
75°	4755.9	4242.0	2500.4	918.5	395.9	323.0	321.2	316.0	324.7	324.7
77.5°	2307.6	2017.7	1045.3	394.2	260.5	253.5	262.2	262.2	262.2	262.2
80°	534.8	592.1	373.3	239.6	189.3	189.3	208.4	210.1	201.4	197.9
82.5°	182.3	243.1	204.9	151.1	125.0	140.6	158.0	161.5	133.7	135.4
85°	90.3	142.4	111.1	86.8	64.2	86.8	102.4	107.7	92.0	88.6
87.5°	41.7	62.5	41.7	29.5	22.6	31.3	29.5	24.3	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)