

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: P481122

Luminaire Tested: **IFLD-S-SA3C-722-U-RW**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481122
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

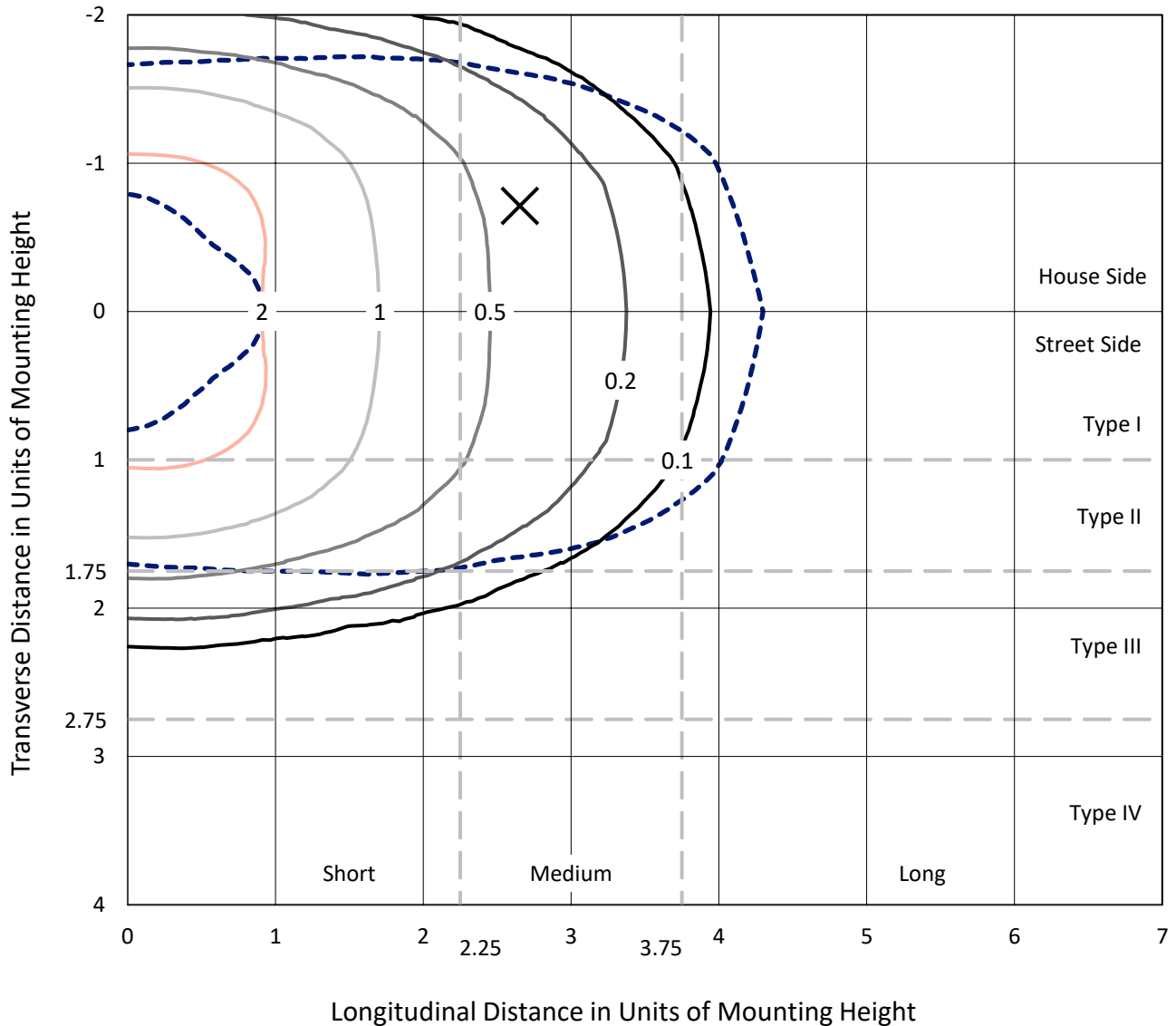
Lumens per Lamp: N/A
Luminaire Lumens: 16071.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (A_{in}): 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

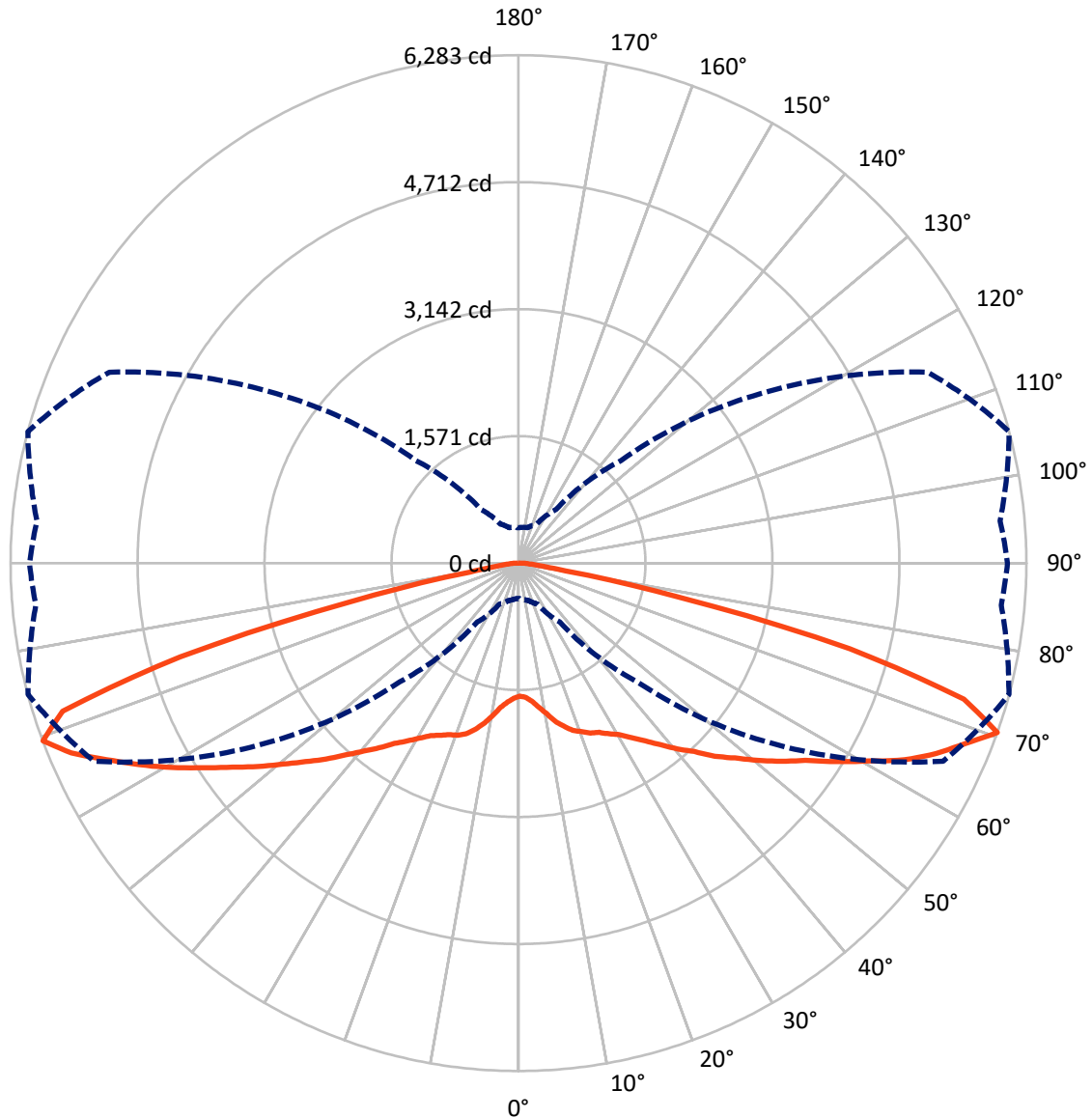
× Max cd
 - - - 1/2 Max cd



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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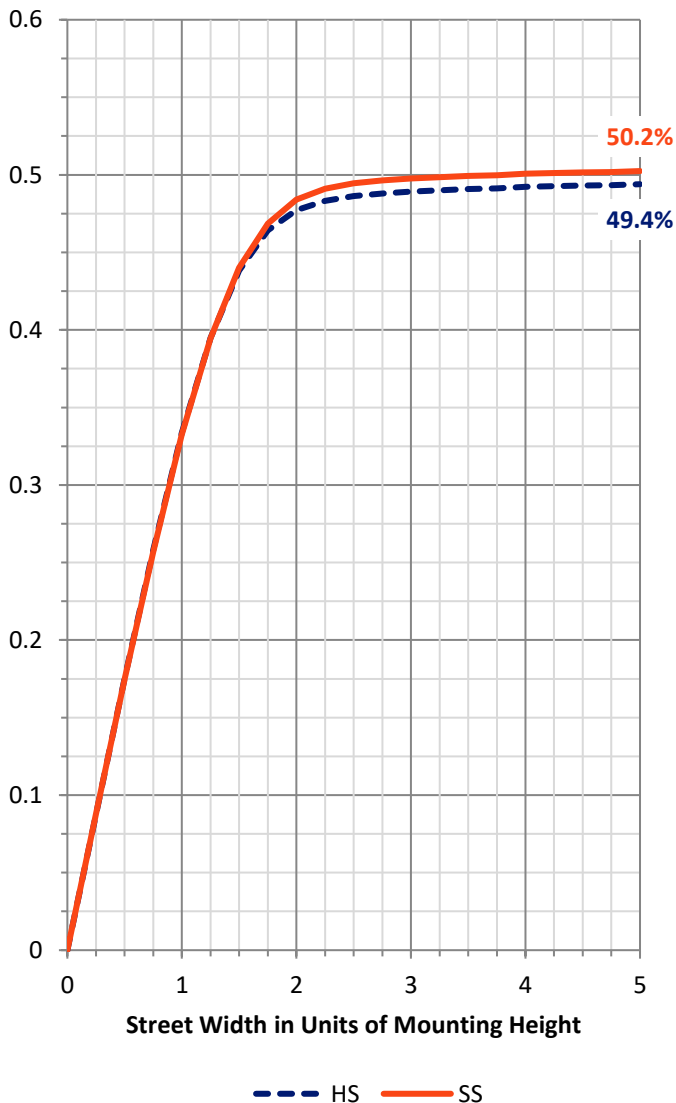
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7978.4	0.0	7978.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8092.7	0.0	8092.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	16071.1	0.0	16071.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.0
10°-20°	557.7	3.5
20°-30°	1079.9	6.7
30°-40°	1826.6	11.4
40°-50°	2914.0	18.1
50°-60°	3988.6	24.8
60°-70°	3759.6	23.4
70°-80°	1656.2	10.3
80°-90°	124.6	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°	16071.1	100.0
0°-180°	16071.1	100.0



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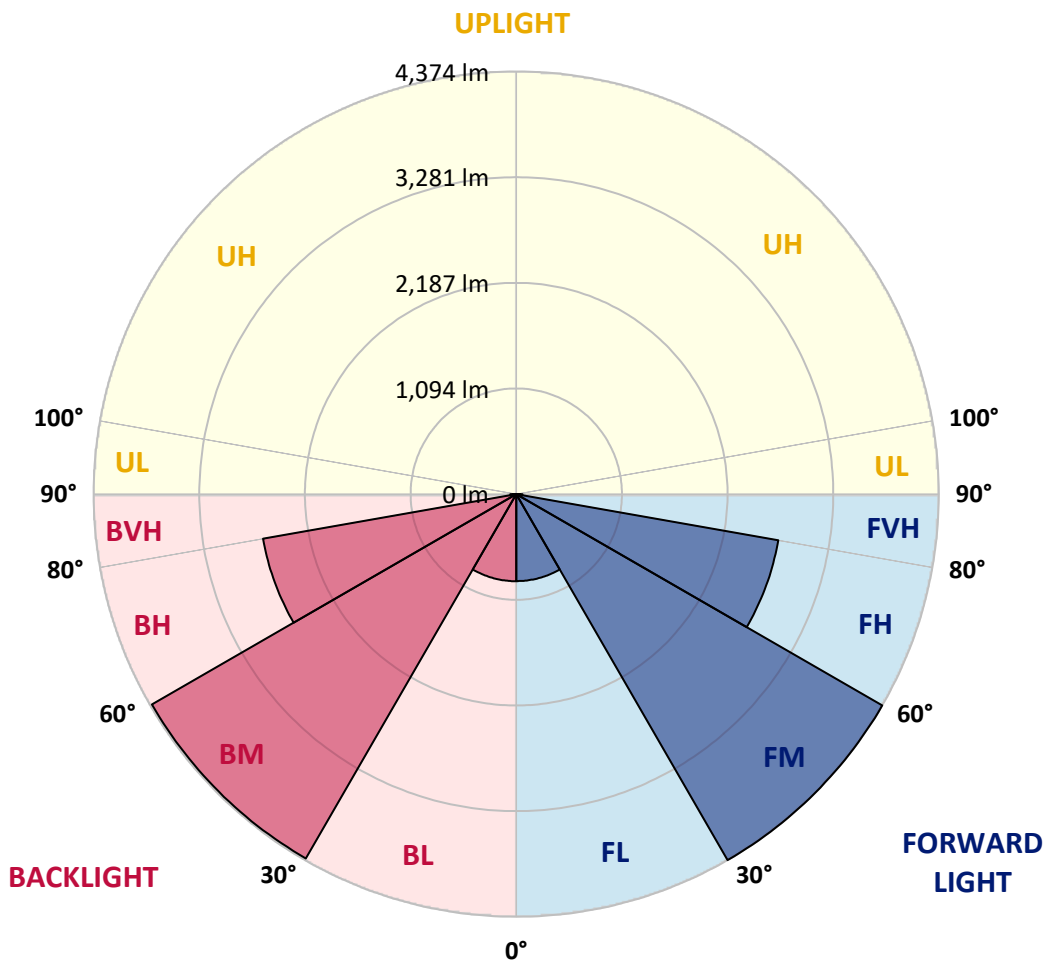
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.2	5.6			
FM (30°-60°)	4374.4	27.2			
FH (60°-80°)	2754.4	17.1			G2/5000
FVH (80°-90°)	63.7	0.4			G1/100
BL (0°-30°)	901.2	5.6	B2/1000		
BM (30°-60°)	4354.9	27.1	B3/5000		
BH (60°-80°)	2661.3	16.6	B4/5000		G4/5000
BVH (80°-90°)	61.0	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°	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7
2.5°	1635.3	1635.3	1633.5	1642.2	1650.9	1654.3	1661.3	1663.0	1673.4	1664.7	1682.0
5°	1630.1	1628.3	1642.2	1663.0	1663.0	1685.5	1699.4	1718.4	1723.6	1734.0	1737.5
7.5°	1666.5	1663.0	1656.1	1678.6	1697.6	1732.3	1751.3	1784.3	1796.4	1810.2	1825.8
10°	1689.0	1689.0	1682.0	1721.9	1739.2	1786.0	1827.6	1860.5	1907.2	1922.8	1924.6
12.5°	1692.4	1697.6	1718.4	1770.4	1818.9	1879.5	1910.7	1973.1	2019.8	2049.3	2059.7
15°	1744.4	1734.0	1756.5	1827.6	1898.6	1952.3	2007.7	2052.8	2120.3	2158.4	2182.7
17.5°	1791.2	1780.8	1822.4	1907.2	1980.0	2063.2	2111.7	2160.2	2208.7	2243.3	2245.0
20°	1865.7	1874.3	1910.7	2002.5	2097.8	2170.6	2226.0	2234.6	2258.9	2309.1	2300.5
22.5°	1957.5	1950.6	2026.8	2127.2	2231.2	2291.8	2323.0	2300.5	2288.3	2342.0	2354.2
25°	2049.3	2070.1	2139.4	2232.9	2357.6	2439.1	2447.7	2385.4	2340.3	2359.4	2354.2
27.5°	2189.6	2193.1	2265.8	2376.7	2503.2	2574.2	2569.0	2480.6	2394.0	2395.7	2399.2
30°	2369.8	2352.4	2432.1	2532.6	2657.3	2721.4	2730.1	2603.6	2487.6	2452.9	2461.6
32.5°	2543.0	2563.8	2633.1	2747.4	2839.2	2875.6	2856.5	2743.9	2593.2	2546.5	2551.7
35°	2764.7	2761.3	2856.5	2953.5	3022.8	3029.8	3014.2	2849.6	2707.6	2646.9	2622.7
37.5°	3002.0	3033.2	3095.6	3175.3	3248.0	3251.5	3166.6	3035.0	2860.0	2759.5	2789.0
40°	3267.1	3301.7	3346.8	3462.8	3516.5	3461.1	3374.5	3196.1	3014.2	2925.8	2939.7
42.5°	3500.9	3516.5	3608.3	3745.2	3771.2	3746.9	3618.7	3402.2	3190.9	3093.9	3100.8
45°	3715.7	3736.5	3856.1	3979.1	4039.7	3998.1	3849.1	3643.0	3397.0	3313.9	3280.9
47.5°	3913.2	3954.8	4070.9	4197.3	4290.9	4294.3	4110.7	3861.3	3601.4	3492.3	3490.6
50°	4046.6	4107.2	4221.6	4365.4	4502.2	4555.9	4372.3	4103.8	3824.9	3708.8	3696.7
52.5°	4119.4	4181.7	4296.1	4519.5	4672.0	4755.1	4668.5	4330.7	4086.5	3965.2	3946.1
55°	4031.0	4072.6	4259.7	4573.2	4808.8	4945.7	4888.5	4644.3	4346.3	4247.6	4264.9
57.5°	3655.1	3741.7	3972.1	4363.6	4805.4	5141.4	5136.2	4940.5	4646.0	4552.4	4555.9
60°	3009.0	3081.7	3365.8	3913.2	4611.3	5221.1	5404.7	5228.0	4982.0	4872.9	4869.5
62.5°	2123.8	2215.6	2544.7	3142.4	4039.7	5110.2	5713.1	5590.1	5311.2	5231.5	5260.9
65°	1188.3	1243.8	1548.7	2089.1	3078.3	4500.5	5768.5	5966.0	5645.5	5524.3	5529.5
67.5°	635.7	656.5	798.6	1096.5	1883.0	3469.8	5209.0	6182.5	6007.6	5798.0	5765.0
70°	436.5	443.5	479.8	561.3	890.4	2075.3	3928.8	5796.2	6279.5	5993.7	6049.1
72.5°	369.0	365.5	374.2	382.8	466.0	928.5	2305.7	4460.6	5927.9	5820.5	5799.7
75°	320.5	318.7	322.2	313.5	323.9	408.8	1020.3	2780.3	4339.4	4843.5	4921.4
77.5°	265.0	266.8	268.5	259.8	256.4	270.2	410.6	1221.3	2135.9	2357.6	2543.0
80°	200.9	204.4	218.3	209.6	195.7	197.5	242.5	408.8	613.2	556.1	573.4
82.5°	136.9	138.6	168.0	157.6	147.2	133.4	155.9	211.3	239.1	181.9	159.4
85°	97.0	95.3	109.1	100.5	93.5	67.6	93.5	119.5	143.8	90.1	81.4
87.5°	22.5	22.5	45.0	36.4	34.6	27.7	36.4	46.8	62.4	39.8	36.4
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°	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7	1645.7
2.5°	1676.9	1661.3	1661.3	1657.8	1643.9	1640.5	1628.3	1631.8	1623.2	1614.5
5°	1735.7	1715.0	1715.0	1685.5	1657.8	1654.3	1640.5	1640.5	1626.6	1630.1
7.5°	1817.2	1798.1	1766.9	1740.9	1702.8	1687.2	1661.3	1657.8	1654.3	1647.4
10°	1914.2	1889.9	1858.7	1805.0	1773.9	1744.4	1718.4	1682.0	1673.4	1675.1
12.5°	2045.8	2007.7	1940.2	1893.4	1853.5	1815.4	1777.3	1723.6	1711.5	1716.7
15°	2139.4	2090.9	2023.3	2006.0	1952.3	1905.5	1843.2	1782.5	1761.7	1756.5
17.5°	2215.6	2175.7	2135.9	2109.9	2066.6	2009.4	1922.8	1853.5	1806.8	1801.6
20°	2278.0	2226.0	2217.3	2232.9	2179.2	2141.1	2035.4	1950.6	1888.2	1862.2
22.5°	2316.1	2283.2	2307.4	2321.3	2317.8	2253.7	2144.6	2045.8	1967.9	1943.6
25°	2357.6	2319.5	2406.1	2452.9	2465.0	2359.4	2274.5	2144.6	2068.3	2052.8
27.5°	2378.4	2392.3	2492.8	2591.5	2582.8	2501.4	2387.1	2271.0	2210.4	2182.7
30°	2439.1	2461.6	2614.0	2724.9	2726.6	2646.9	2560.3	2428.7	2361.1	2349.0
32.5°	2548.2	2575.9	2738.7	2856.5	2877.3	2816.7	2730.1	2648.7	2579.4	2551.7
35°	2631.3	2702.4	2886.0	2993.4	3048.8	3012.4	2963.9	2879.1	2806.3	2782.0
37.5°	2750.9	2849.6	3026.3	3171.8	3234.2	3230.7	3194.3	3102.5	3041.9	3021.1
40°	2922.4	3021.1	3182.2	3374.5	3490.6	3485.4	3464.6	3393.5	3303.5	3293.1
42.5°	3104.3	3185.7	3395.3	3615.3	3781.6	3764.3	3708.8	3625.7	3563.3	3549.5
45°	3280.9	3407.4	3601.4	3883.8	4008.5	4051.8	3986.0	3843.9	3772.9	3764.3
47.5°	3502.7	3603.2	3845.7	4098.6	4283.9	4290.9	4178.3	4046.6	3916.7	3944.4
50°	3700.2	3833.5	4079.5	4356.7	4578.4	4498.7	4355.0	4190.4	4096.9	4060.5
52.5°	3911.5	4074.3	4360.2	4642.5	4765.5	4685.8	4452.0	4268.3	4126.3	4110.7
55°	4219.8	4304.7	4678.9	4895.4	4935.3	4767.2	4422.5	4162.7	3979.1	3934.0
57.5°	4533.4	4632.1	4959.5	5146.6	5105.0	4722.2	4232.0	3830.1	3589.3	3525.2
60°	4850.4	4971.7	5247.1	5418.6	5203.8	4412.1	3693.2	3175.3	2894.6	2837.5
62.5°	5203.8	5361.4	5607.4	5668.0	4911.0	3798.9	2931.0	2291.8	2007.7	1912.4
65°	5517.3	5678.4	5981.6	5616.1	4289.1	2834.0	1895.1	1309.6	1100.0	1023.8
67.5°	5775.4	5957.3	6106.3	4969.9	3140.6	1659.5	987.4	689.4	611.5	583.8
70°	5979.8	6283.0	5586.6	3653.4	1794.6	809.0	533.5	453.9	443.5	436.5
72.5°	5801.4	5761.6	4171.3	2108.2	786.5	445.2	386.3	374.2	372.4	374.2
75°	4744.7	4232.0	2494.5	916.4	395.0	322.2	320.5	315.3	323.9	323.9
77.5°	2302.2	2012.9	1042.8	393.2	259.8	252.9	261.6	261.6	261.6	261.6
80°	533.5	590.7	372.4	239.1	188.8	188.8	207.9	209.6	200.9	197.5
82.5°	181.9	242.5	204.4	150.7	124.7	140.3	157.6	161.1	133.4	135.1
85°	90.1	142.0	110.9	86.6	64.1	86.6	102.2	107.4	91.8	88.3
87.5°	41.6	62.4	41.6	29.4	22.5	31.2	29.4	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)