

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: P479173

Luminaire Tested: **IFLD-S-SA3D-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

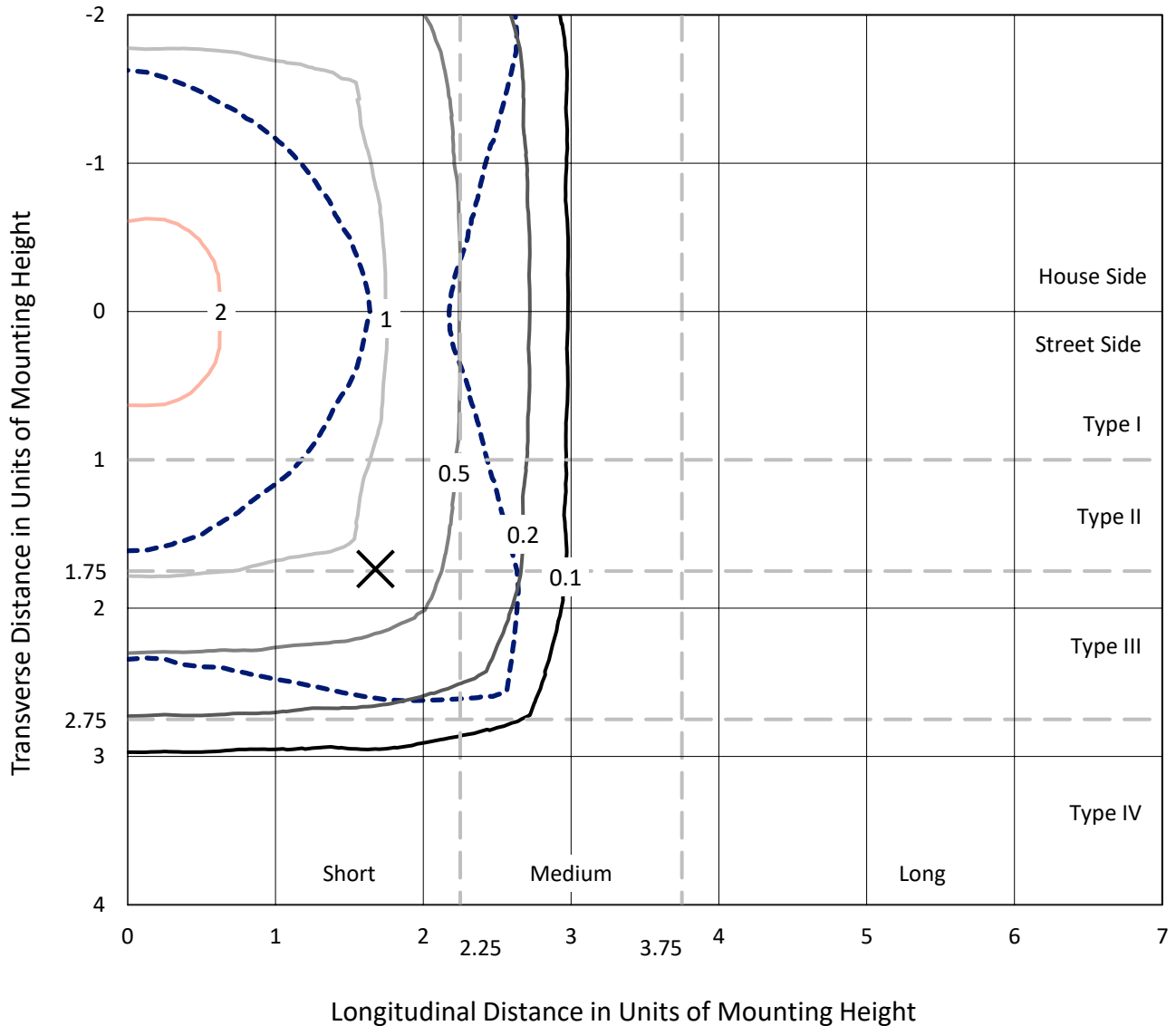
Lumens per Lamp: N/A
Luminaire Lumens: 17329.5 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

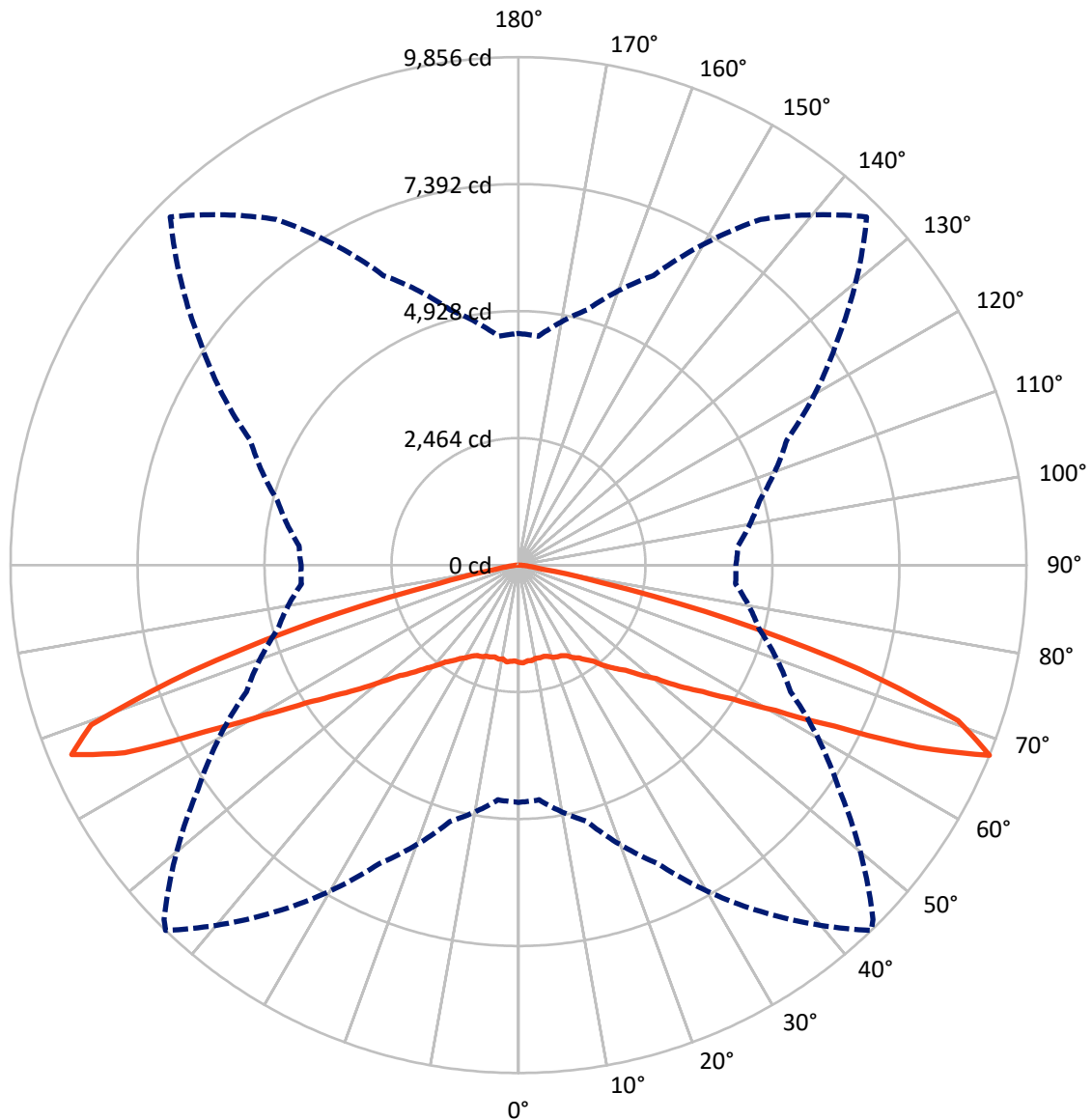
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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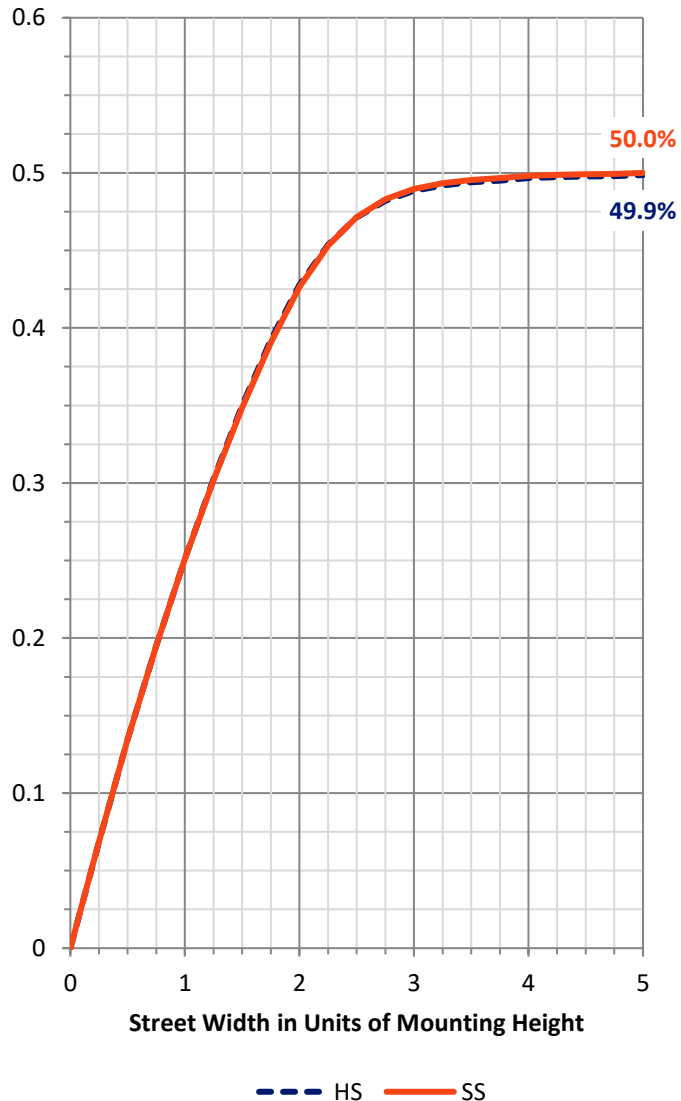
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8642.6	0.0	8642.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8686.9	0.0	8686.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	17329.5	0.0	17329.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	1.0
10°-20°	523.3	3.0
20°-30°	889.9	5.1
30°-40°	1411.0	8.1
40°-50°	2300.8	13.3
50°-60°	3929.5	22.7
60°-70°	5976.7	34.5
70°-80°	2014.5	11.6
80°-90°	104.6	0.6
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°	17329.5	100.0
0°-180°	17329.5	100.0

Coefficient of Utilization



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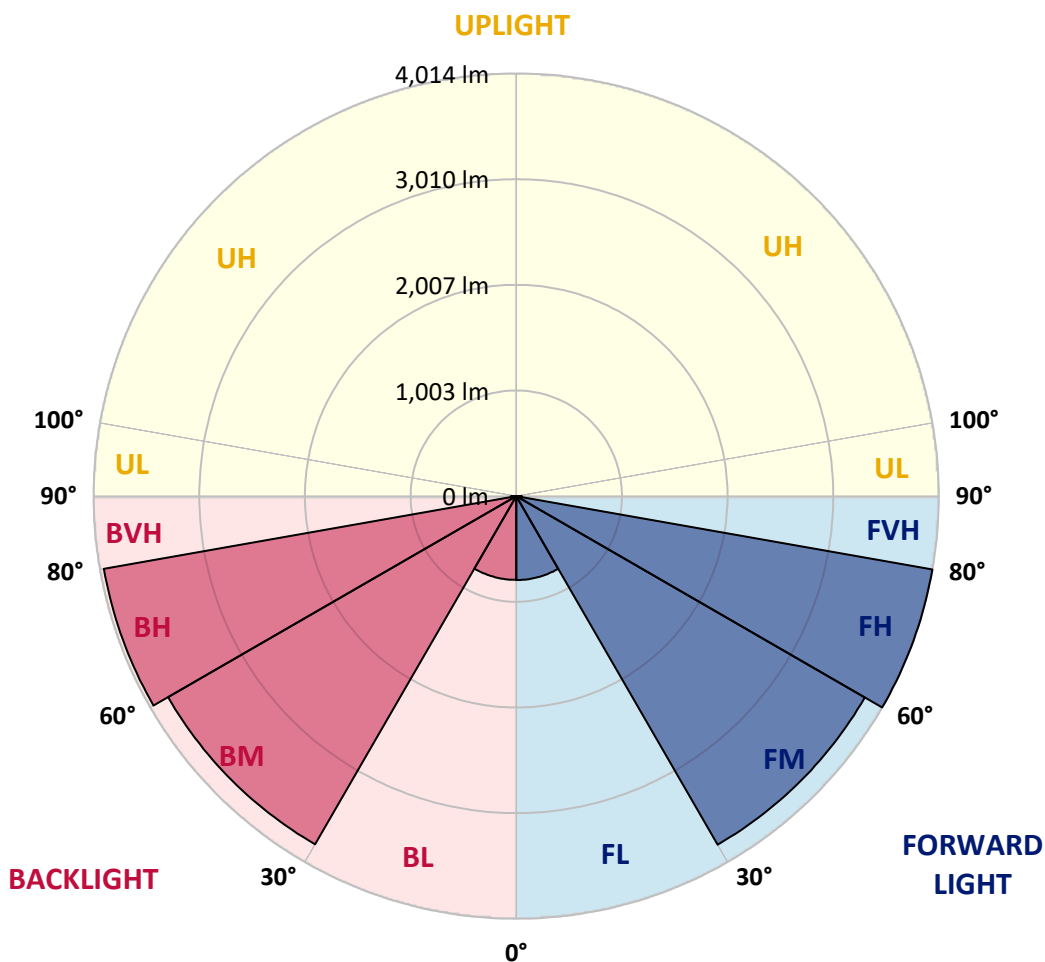
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.0	4.6			
FM (30°-60°)	3822.7	22.1			
FH (60°-80°)	4013.7	23.2			G2/5000
FVH (80°-90°)	53.5	0.3			G1/100
BL (0°-30°)	795.4	4.6	B2/1000		
BM (30°-60°)	3818.6	22.0	B3/5000		
BH (60°-80°)	3977.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9
2.5°	1849.4	1871.2	1887.0	1885.0	1891.0	1896.9	1889.0	1900.9	1892.9	1906.8	1914.7
5°	1885.0	1879.1	1881.1	1869.2	1896.9	1865.3	1865.3	1881.1	1900.9	1877.1	1891.0
7.5°	1863.3	1859.3	1849.4	1867.2	1873.2	1873.2	1889.0	1859.3	1892.9	1900.9	1902.8
10°	1839.5	1817.8	1847.5	1865.3	1869.2	1837.6	1851.4	1859.3	1849.4	1859.3	1865.3
12.5°	1819.8	1831.6	1831.6	1831.6	1825.7	1847.5	1861.3	1859.3	1839.5	1857.3	1825.7
15°	1817.8	1811.8	1829.6	1845.5	1835.6	1839.5	1845.5	1863.3	1825.7	1833.6	1833.6
17.5°	1815.8	1823.7	1829.6	1827.7	1861.3	1861.3	1855.4	1843.5	1873.2	1857.3	1835.6
20°	1823.7	1817.8	1833.6	1839.5	1863.3	1910.7	1892.9	1883.1	1867.2	1847.5	1847.5
22.5°	1833.6	1829.6	1851.4	1877.1	1922.6	1934.5	1932.5	1920.6	1892.9	1869.2	1865.3
25°	1869.2	1833.6	1857.3	1906.8	1922.6	1946.4	1962.2	1946.4	1908.8	1914.7	1879.1
27.5°	1922.6	1916.7	1948.3	1982.0	1968.1	1989.9	1976.0	1987.9	1989.9	1960.2	1924.6
30°	1985.9	1968.1	1987.9	2053.2	2059.1	2082.8	2059.1	2027.4	2037.3	2011.6	1993.8
32.5°	2076.9	2071.0	2108.5	2152.1	2160.0	2148.1	2136.2	2154.0	2112.5	2092.7	2061.1
35°	2136.2	2162.0	2207.4	2241.1	2266.8	2254.9	2260.9	2243.1	2252.9	2211.4	2197.6
37.5°	2312.3	2302.4	2312.3	2369.6	2375.6	2369.6	2375.6	2395.4	2381.5	2345.9	2310.3
40°	2478.4	2462.6	2486.3	2551.6	2547.7	2567.4	2527.9	2549.6	2549.6	2482.4	2468.5
42.5°	2603.0	2656.5	2684.1	2737.6	2757.3	2739.5	2731.6	2735.6	2779.1	2700.0	2670.3
45°	2860.2	2858.2	2941.3	2971.0	2915.6	2911.6	2895.8	2943.3	2972.9	2927.4	2915.6
47.5°	3139.1	3152.9	3200.4	3212.3	3245.9	3184.6	3184.6	3190.5	3295.3	3188.5	3133.2
50°	3390.3	3408.1	3503.0	3596.0	3532.7	3467.4	3493.1	3524.8	3582.2	3481.3	3433.8
52.5°	3694.9	3791.8	3855.1	3904.6	3950.1	3904.6	3845.2	3880.8	3993.6	3859.1	3799.7
55°	4134.0	4211.2	4270.5	4361.5	4399.1	4337.8	4331.8	4327.9	4391.2	4248.7	4167.6
57.5°	4624.6	4592.9	4687.9	4828.3	4964.8	4905.4	4887.6	4891.6	4907.4	4705.7	4644.3
60°	5233.8	5269.4	5382.1	5504.8	5649.2	5732.2	5615.5	5548.3	5562.1	5287.2	5192.2
62.5°	5581.9	5661.0	5916.2	6337.5	6628.3	6887.4	6905.2	6468.1	6175.3	5641.3	5237.7
65°	5413.8	5401.9	5882.6	6661.9	7763.6	8517.3	8404.5	7344.3	6321.7	5473.1	4931.2
67.5°	4604.8	4573.1	5154.7	6390.9	8210.7	9856.4	9727.8	7591.6	5827.2	4842.1	4229.0
70°	2967.0	2959.1	3590.1	4871.8	7330.5	9049.3	9096.8	6895.3	4743.2	3546.6	2939.3
72.5°	1078.0	1143.3	1509.2	2618.9	4978.6	6923.0	6952.7	5105.2	2727.7	1639.8	1208.6
75°	397.6	409.4	476.7	850.5	2268.8	4250.7	4361.5	2476.5	969.2	534.1	435.2
77.5°	229.4	231.4	255.2	316.5	672.5	1659.5	1726.8	751.6	375.8	284.8	263.1
80°	156.3	154.3	180.0	205.7	269.0	470.8	500.4	314.5	237.4	197.8	166.2
82.5°	91.0	96.9	132.5	146.4	164.2	207.7	211.6	195.8	178.0	146.4	108.8
85°	55.4	45.5	73.2	81.1	94.9	93.0	93.0	106.8	114.7	102.9	61.3
87.5°	13.8	13.8	17.8	19.8	25.7	19.8	21.8	41.5	55.4	51.4	31.6
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°	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9	1892.9
2.5°	1896.9	1891.0	1894.9	1916.7	1902.8	1861.3	1871.2	1892.9	1875.1	1865.3	1863.3
5°	1889.0	1900.9	1887.0	1891.0	1904.8	1871.2	1877.1	1904.8	1892.9	1896.9	1875.1
7.5°	1891.0	1896.9	1885.0	1867.2	1867.2	1894.9	1879.1	1883.1	1865.3	1894.9	1855.4
10°	1879.1	1863.3	1849.4	1859.3	1855.4	1847.5	1841.5	1853.4	1835.6	1861.3	1833.6
12.5°	1843.5	1847.5	1843.5	1839.5	1847.5	1867.2	1835.6	1839.5	1811.8	1815.8	1829.6
15°	1829.6	1841.5	1837.6	1859.3	1869.2	1839.5	1863.3	1839.5	1817.8	1805.9	1827.7
17.5°	1835.6	1853.4	1847.5	1863.3	1845.5	1867.2	1871.2	1861.3	1835.6	1825.7	1835.6
20°	1841.5	1835.6	1843.5	1871.2	1896.9	1875.1	1875.1	1869.2	1845.5	1831.6	1831.6
22.5°	1855.4	1845.5	1857.3	1879.1	1887.0	1920.6	1891.0	1877.1	1837.6	1802.0	1835.6
25°	1883.1	1889.0	1896.9	1889.0	1932.5	1928.5	1924.6	1914.7	1853.4	1855.4	1849.4
27.5°	1936.5	1902.8	1912.7	1960.2	1966.1	1982.0	1962.2	1980.0	1914.7	1916.7	1877.1
30°	2001.7	1966.1	1997.8	2039.3	2037.3	2067.0	2057.1	2061.1	2015.6	1989.9	1936.5
32.5°	2072.9	2069.0	2088.8	2114.5	2124.4	2140.2	2138.2	2138.2	2110.5	2043.3	2053.2
35°	2152.1	2179.8	2203.5	2231.2	2235.1	2254.9	2227.2	2231.2	2203.5	2154.0	2169.9
37.5°	2308.3	2306.3	2332.1	2365.7	2369.6	2353.8	2375.6	2365.7	2328.1	2294.5	2268.8
40°	2490.3	2450.7	2474.5	2553.6	2559.5	2531.8	2529.9	2527.9	2500.2	2427.0	2411.2
42.5°	2648.5	2700.0	2696.0	2721.7	2703.9	2690.1	2739.5	2711.8	2690.1	2612.9	2599.1
45°	2852.3	2868.1	2919.5	3002.6	2917.5	2917.5	2951.2	2929.4	2917.5	2860.2	2806.8
47.5°	3105.5	3119.3	3222.2	3228.1	3172.7	3135.1	3240.0	3243.9	3194.5	3151.0	3085.7
50°	3402.2	3408.1	3501.1	3596.0	3534.7	3463.5	3570.3	3611.8	3501.1	3441.7	3360.6
52.5°	3728.5	3710.7	3787.9	3965.9	3906.5	3884.8	3999.5	4009.4	3859.1	3766.1	3787.9
55°	4104.3	4080.6	4290.3	4410.9	4373.4	4333.8	4385.2	4409.0	4288.3	4136.0	4189.4
57.5°	4590.9	4602.8	4707.6	4826.3	4887.6	4897.5	4921.3	4897.5	4774.9	4620.6	4571.2
60°	5077.5	5113.1	5316.9	5540.4	5560.2	5734.2	5702.6	5583.9	5409.8	5190.3	5200.2
62.5°	5257.5	5227.9	5556.2	6102.1	6567.0	6885.4	6745.0	6323.7	5920.2	5520.6	5550.3
65°	4895.5	4968.7	5415.8	6270.3	7279.0	8539.0	7791.3	6626.3	5811.4	5295.1	5237.7
67.5°	4219.1	4274.5	4842.1	5744.1	7534.2	9555.7	8186.9	6199.1	5125.0	4456.4	4492.0
70°	2939.3	2967.0	3522.8	4705.7	6832.0	9017.7	7385.9	4761.0	3538.6	2820.6	2860.2
72.5°	1182.8	1250.1	1616.0	2834.5	5043.9	6851.8	4972.7	2498.2	1467.7	1091.9	991.0
75°	437.1	439.1	516.3	975.2	2395.4	4306.1	2243.1	803.1	468.8	383.7	365.9
77.5°	253.2	251.2	269.0	352.1	694.3	1681.3	636.9	314.5	255.2	229.4	219.6
80°	158.2	156.3	184.0	233.4	304.6	460.9	269.0	195.8	172.1	148.3	148.3
82.5°	100.9	102.9	144.4	172.1	185.9	203.7	156.3	138.5	128.6	85.1	83.1
85°	65.3	59.3	100.9	114.7	102.9	91.0	87.0	73.2	67.3	41.5	45.5
87.5°	29.7	31.6	51.4	57.4	37.6	21.8	21.8	15.8	15.8	9.9	9.9
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)