

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: P481199

Luminaire Tested: **IFLD-S-SA3B-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481199
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

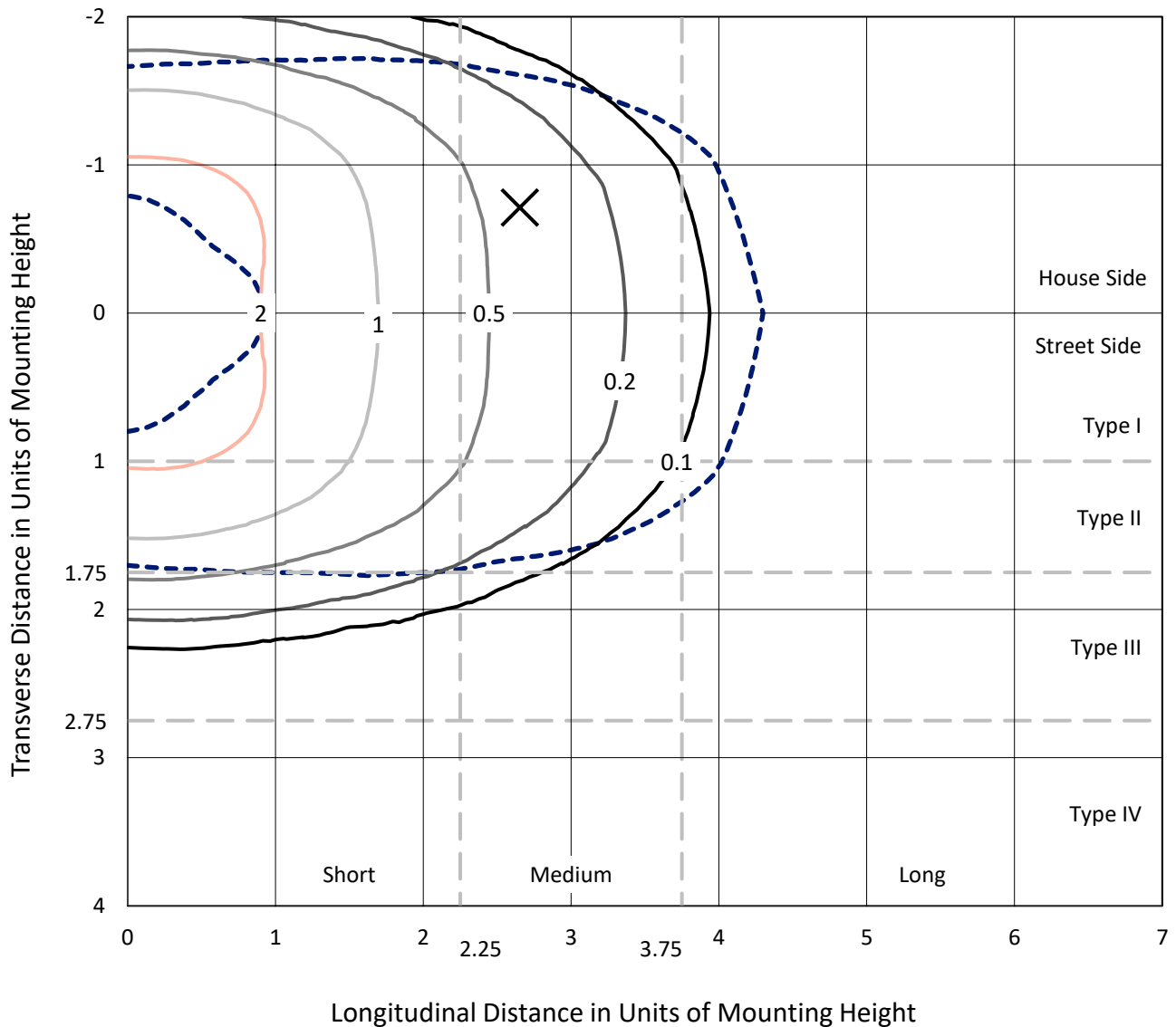
Lumens per Lamp: N/A
Luminaire Lumens: 15959.9 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 122.4
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

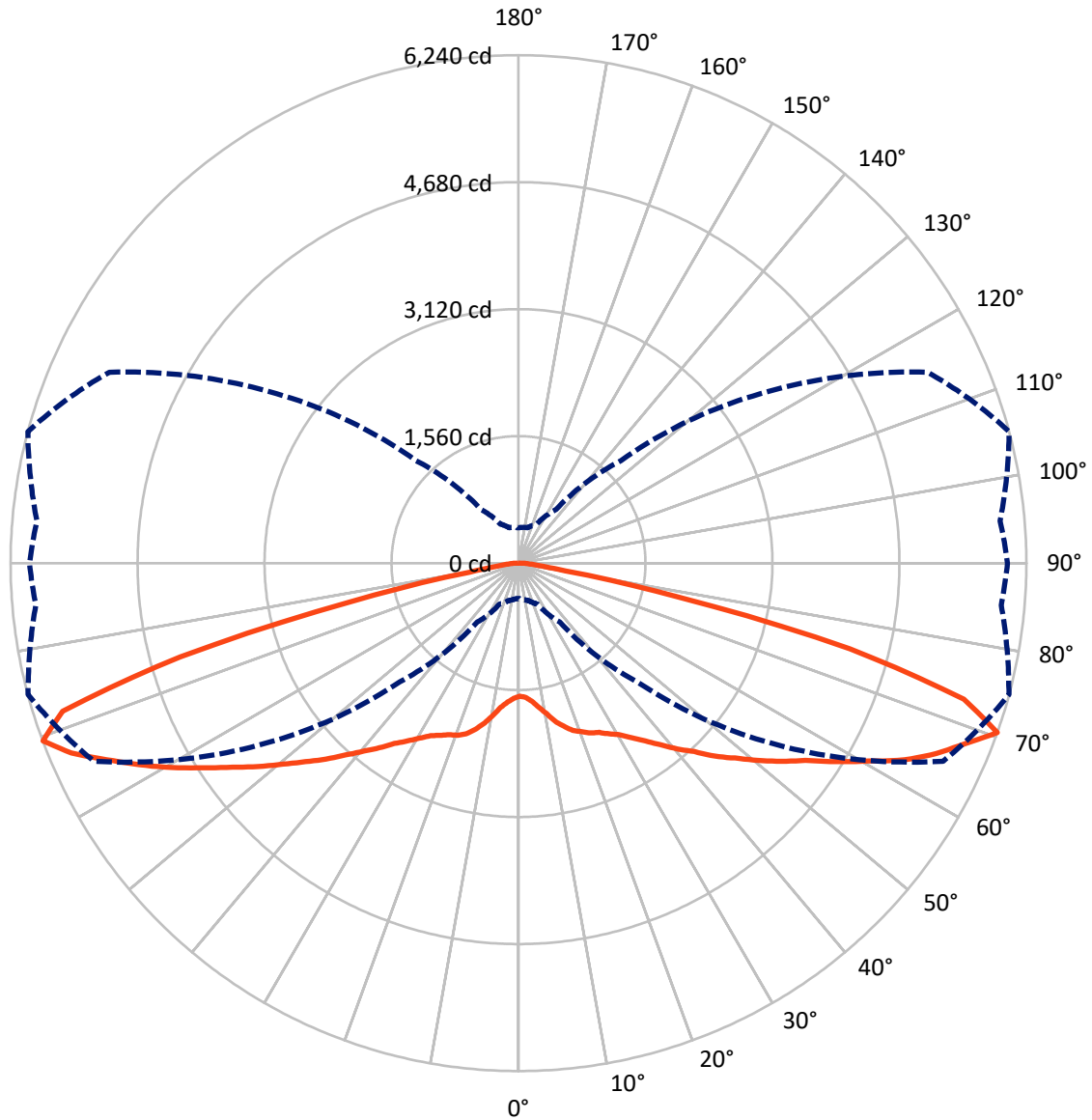
× Max cd
 - - - 1/2 Max cd



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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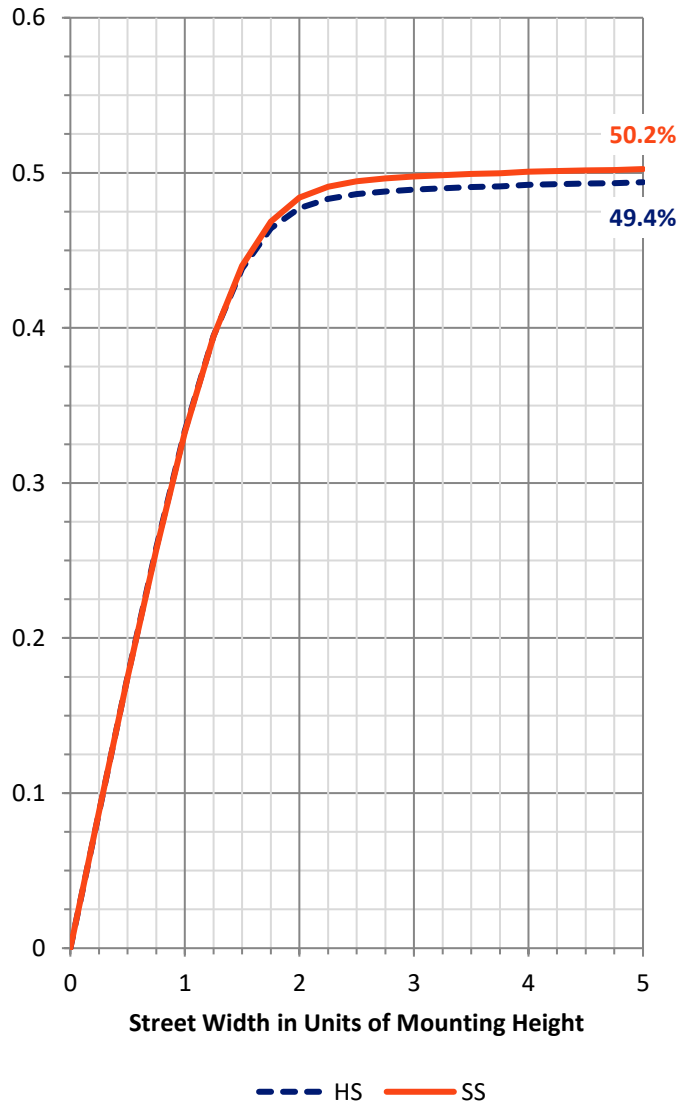
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7923.2	0.0	7923.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8036.7	0.0	8036.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	15959.9	0.0	15959.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.0
10°-20°	553.9	3.5
20°-30°	1072.5	6.7
30°-40°	1814.0	11.4
40°-50°	2893.8	18.1
50°-60°	3961.0	24.8
60°-70°	3733.5	23.4
70°-80°	1644.7	10.3
80°-90°	123.8	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°	15959.9	100.0
0°-180°	15959.9	100.0

Coefficient of Utilization

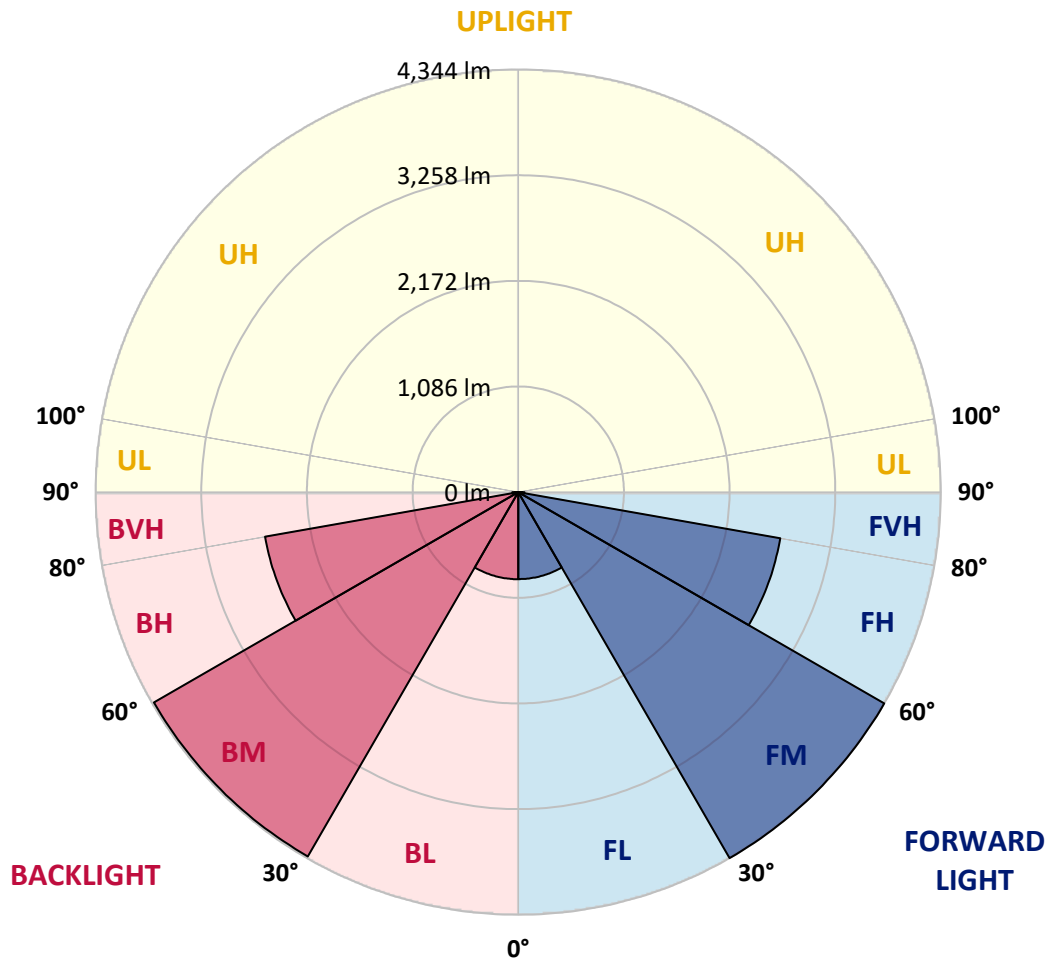


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.0	5.6			
FM (30°-60°)	4344.1	27.2			
FH (60°-80°)	2735.4	17.1			G2/5000
FVH (80°-90°)	63.2	0.4			G1/100
BL (0°-30°)	895.0	5.6	B2/1000		
BM (30°-60°)	4324.7	27.1	B3/5000		
BH (60°-80°)	2642.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	60.5	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°	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3
2.5°	1624.0	1624.0	1622.2	1630.8	1639.4	1642.9	1649.8	1651.5	1661.8	1653.2	1670.4
5°	1618.8	1617.1	1630.8	1651.5	1651.5	1673.8	1687.6	1706.5	1711.7	1722.0	1725.5
7.5°	1654.9	1651.5	1644.6	1667.0	1685.9	1720.3	1739.2	1771.9	1783.9	1797.7	1813.2
10°	1677.3	1677.3	1670.4	1710.0	1727.2	1773.6	1814.9	1847.6	1894.0	1909.5	1911.2
12.5°	1680.7	1685.9	1706.5	1758.1	1806.3	1866.5	1897.5	1959.4	2005.9	2035.1	2045.4
15°	1732.3	1722.0	1744.4	1814.9	1885.4	1938.8	1993.8	2038.5	2105.6	2143.5	2167.6
17.5°	1778.8	1768.5	1809.7	1894.0	1966.3	2048.9	2097.0	2145.2	2193.4	2227.8	2229.5
20°	1852.8	1861.4	1897.5	1988.7	2083.3	2155.5	2210.6	2219.2	2243.3	2293.2	2284.5
22.5°	1943.9	1937.1	2012.7	2112.5	2215.7	2275.9	2306.9	2284.5	2272.5	2325.8	2337.9
25°	2035.1	2055.8	2124.6	2217.5	2341.3	2422.2	2430.8	2368.8	2324.1	2343.0	2337.9
27.5°	2174.5	2177.9	2250.1	2360.2	2485.8	2556.4	2551.2	2463.5	2377.4	2379.2	2382.6
30°	2353.4	2336.2	2415.3	2515.1	2638.9	2702.6	2711.2	2585.6	2470.3	2435.9	2444.5
32.5°	2525.4	2546.0	2614.8	2728.4	2819.6	2855.7	2836.8	2724.9	2575.3	2528.8	2534.0
35°	2745.6	2742.1	2836.8	2933.1	3001.9	3008.8	2993.3	2829.9	2688.8	2628.6	2604.5
37.5°	2981.3	3012.2	3074.2	3153.3	3225.6	3229.0	3144.7	3014.0	2840.2	2740.4	2769.7
40°	3244.5	3278.9	3323.6	3438.9	3492.2	3437.1	3351.1	3173.9	2993.3	2905.6	2919.3
42.5°	3476.7	3492.2	3583.4	3719.3	3745.1	3721.0	3593.7	3378.7	3168.8	3072.4	3079.3
45°	3690.0	3710.7	3829.4	3951.5	4011.7	3970.4	3822.5	3617.8	3373.5	3290.9	3258.2
47.5°	3886.1	3927.4	4042.7	4168.3	4261.2	4264.6	4082.3	3834.5	3576.5	3468.1	3466.4
50°	4018.6	4078.8	4192.4	4335.1	4471.0	4524.4	4342.0	4075.4	3798.4	3683.1	3671.1
52.5°	4090.9	4152.8	4266.3	4488.2	4639.6	4722.2	4636.2	4300.7	4058.2	3937.8	3918.8
55°	4003.1	4044.4	4230.2	4541.6	4775.5	4911.4	4854.7	4612.1	4316.2	4218.2	4235.4
57.5°	3629.8	3715.8	3944.6	4333.4	4772.1	5105.8	5100.7	4906.3	4613.8	4520.9	4524.4
60°	2988.1	3060.4	3342.5	3886.1	4579.4	5185.0	5367.3	5191.8	4947.6	4839.2	4835.7
62.5°	2109.1	2200.3	2527.1	3120.6	4011.7	5074.9	5673.5	5551.4	5274.4	5195.3	5224.5
65°	1180.1	1235.2	1537.9	2074.7	3057.0	4469.3	5728.6	5924.7	5606.4	5486.0	5491.2
67.5°	631.3	652.0	793.1	1088.9	1870.0	3445.7	5172.9	6139.7	5966.0	5757.8	5725.1
70°	433.5	440.4	476.5	557.4	884.2	2060.9	3901.6	5756.1	6236.1	5952.2	6007.3
72.5°	366.4	363.0	371.6	380.2	462.8	922.1	2289.7	4429.8	5886.8	5780.2	5759.5
75°	318.3	316.5	320.0	311.4	321.7	406.0	1013.3	2761.1	4309.3	4809.9	4887.4
77.5°	263.2	264.9	266.6	258.0	254.6	268.4	407.7	1212.8	2121.1	2341.3	2525.4
80°	199.6	203.0	216.8	208.2	194.4	196.1	240.8	406.0	609.0	552.2	569.4
82.5°	135.9	137.6	166.9	156.5	146.2	132.5	154.8	209.9	237.4	180.6	158.3
85°	96.3	94.6	108.4	99.8	92.9	67.1	92.9	118.7	142.8	89.5	80.9
87.5°	22.4	22.4	44.7	36.1	34.4	27.5	36.1	46.4	61.9	39.6	36.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3	1634.3
2.5°	1665.2	1649.8	1649.8	1646.3	1632.6	1629.1	1617.1	1620.5	1611.9	1603.3
5°	1723.7	1703.1	1703.1	1673.8	1646.3	1642.9	1629.1	1629.1	1615.4	1618.8
7.5°	1804.6	1785.7	1754.7	1728.9	1691.0	1675.6	1649.8	1646.3	1642.9	1636.0
10°	1900.9	1876.8	1845.9	1792.5	1761.6	1732.3	1706.5	1670.4	1661.8	1663.5
12.5°	2031.7	1993.8	1926.7	1880.3	1840.7	1802.9	1765.0	1711.7	1699.7	1704.8
15°	2124.6	2076.4	2009.3	1992.1	1938.8	1892.3	1830.4	1770.2	1749.5	1744.4
17.5°	2200.3	2160.7	2121.1	2095.3	2052.3	1995.5	1909.5	1840.7	1794.3	1789.1
20°	2262.2	2210.6	2202.0	2217.5	2164.1	2126.3	2021.3	1937.1	1875.1	1849.3
22.5°	2300.0	2267.3	2291.4	2305.2	2301.8	2238.1	2129.7	2031.7	1954.3	1930.2
25°	2341.3	2303.5	2389.5	2435.9	2448.0	2343.0	2258.7	2129.7	2054.0	2038.5
27.5°	2362.0	2375.7	2475.5	2573.6	2565.0	2484.1	2370.6	2255.3	2195.1	2167.6
30°	2422.2	2444.5	2595.9	2706.0	2707.7	2628.6	2542.6	2411.9	2344.8	2332.7
32.5°	2530.6	2558.1	2719.8	2836.8	2857.4	2797.2	2711.2	2630.3	2561.5	2534.0
35°	2613.1	2683.7	2866.0	2972.7	3027.7	2991.6	2943.4	2859.1	2786.9	2762.8
37.5°	2731.8	2829.9	3005.4	3149.9	3211.8	3208.3	3172.2	3081.0	3020.8	3000.2
40°	2902.1	3000.2	3160.2	3351.1	3466.4	3461.2	3440.6	3370.1	3280.6	3270.3
42.5°	3082.8	3163.6	3371.8	3590.3	3755.4	3738.2	3683.1	3600.6	3538.6	3524.9
45°	3258.2	3383.8	3576.5	3856.9	3980.8	4023.8	3958.4	3817.3	3746.8	3738.2
47.5°	3478.4	3578.2	3819.1	4070.2	4254.3	4261.2	4149.3	4018.6	3889.6	3917.1
50°	3674.5	3807.0	4051.3	4326.5	4546.7	4467.6	4324.8	4161.4	4068.5	4032.4
52.5°	3884.4	4046.1	4330.0	4610.4	4732.5	4653.4	4421.2	4238.8	4097.7	4082.3
55°	4190.6	4274.9	4646.5	4861.5	4901.1	4734.2	4391.9	4133.9	3951.5	3906.8
57.5°	4502.0	4600.1	4925.2	5111.0	5069.7	4689.5	4202.7	3803.6	3564.4	3500.8
60°	4816.8	4937.2	5210.8	5381.1	5167.8	4381.6	3667.7	3153.3	2874.6	2817.8
62.5°	5167.8	5324.3	5568.6	5628.8	4877.0	3772.6	2910.7	2275.9	1993.8	1899.2
65°	5479.1	5639.1	5940.2	5577.2	4259.4	2814.4	1882.0	1300.5	1092.4	1016.7
67.5°	5735.5	5916.1	6064.0	4935.5	3118.9	1648.0	980.6	684.7	607.3	579.7
70°	5938.5	6239.5	5547.9	3628.1	1782.2	803.4	529.9	450.7	440.4	433.5
72.5°	5761.3	5721.7	4142.5	2093.6	781.0	442.1	383.6	371.6	369.9	371.6
75°	4711.9	4202.7	2477.2	910.0	392.2	320.0	318.3	313.1	321.7	321.7
77.5°	2286.3	1999.0	1035.6	390.5	258.0	251.2	259.8	259.8	259.8	259.8
80°	529.9	586.6	369.9	237.4	187.5	187.5	206.4	208.2	199.6	196.1
82.5°	180.6	240.8	203.0	149.7	123.9	139.3	156.5	160.0	132.5	134.2
85°	89.5	141.1	110.1	86.0	63.7	86.0	101.5	106.7	91.2	87.7
87.5°	41.3	61.9	41.3	29.2	22.4	31.0	29.2	24.1	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)