

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: P842590

Luminaire Tested: **ARCH4-70-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11259 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

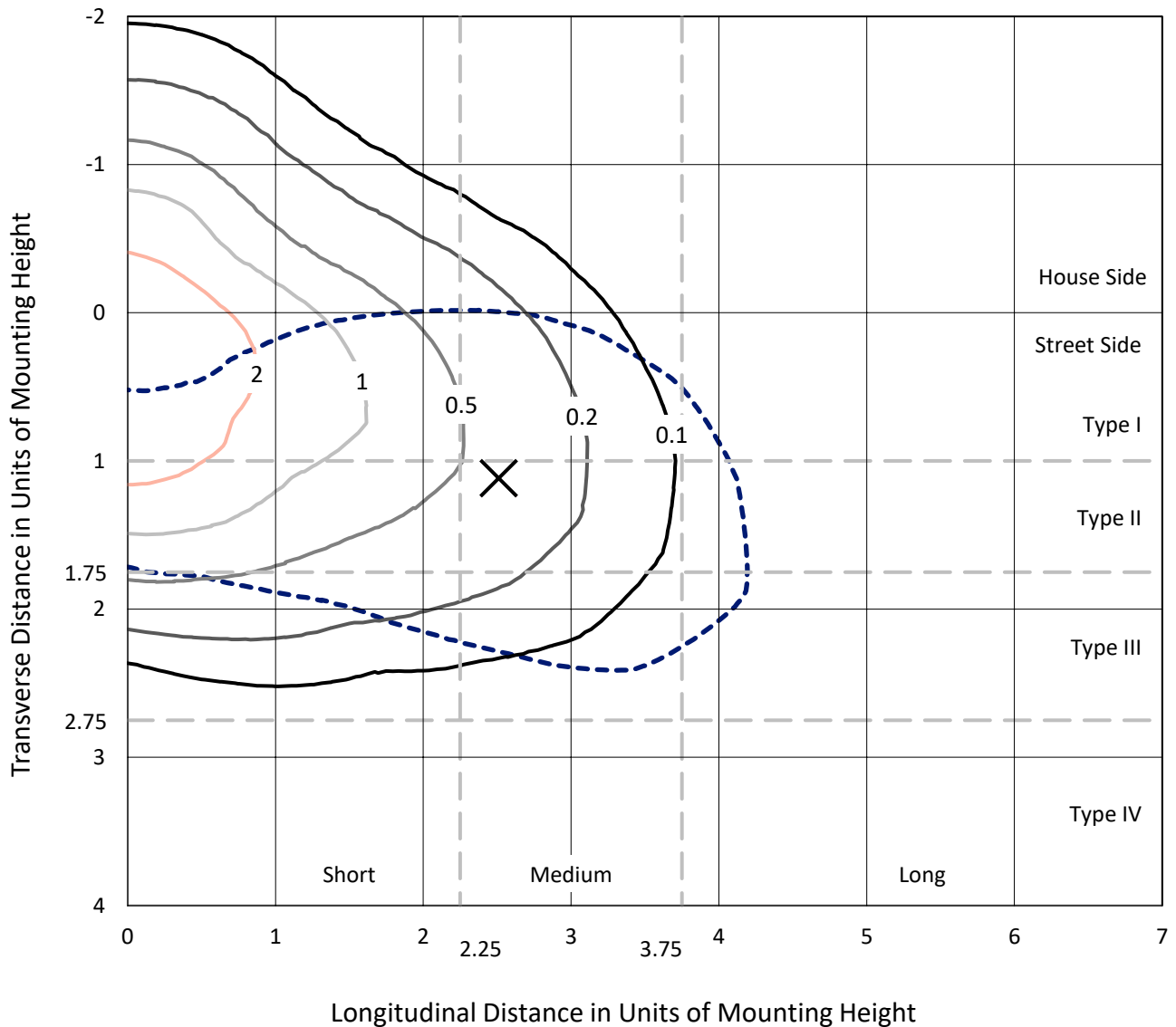
Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

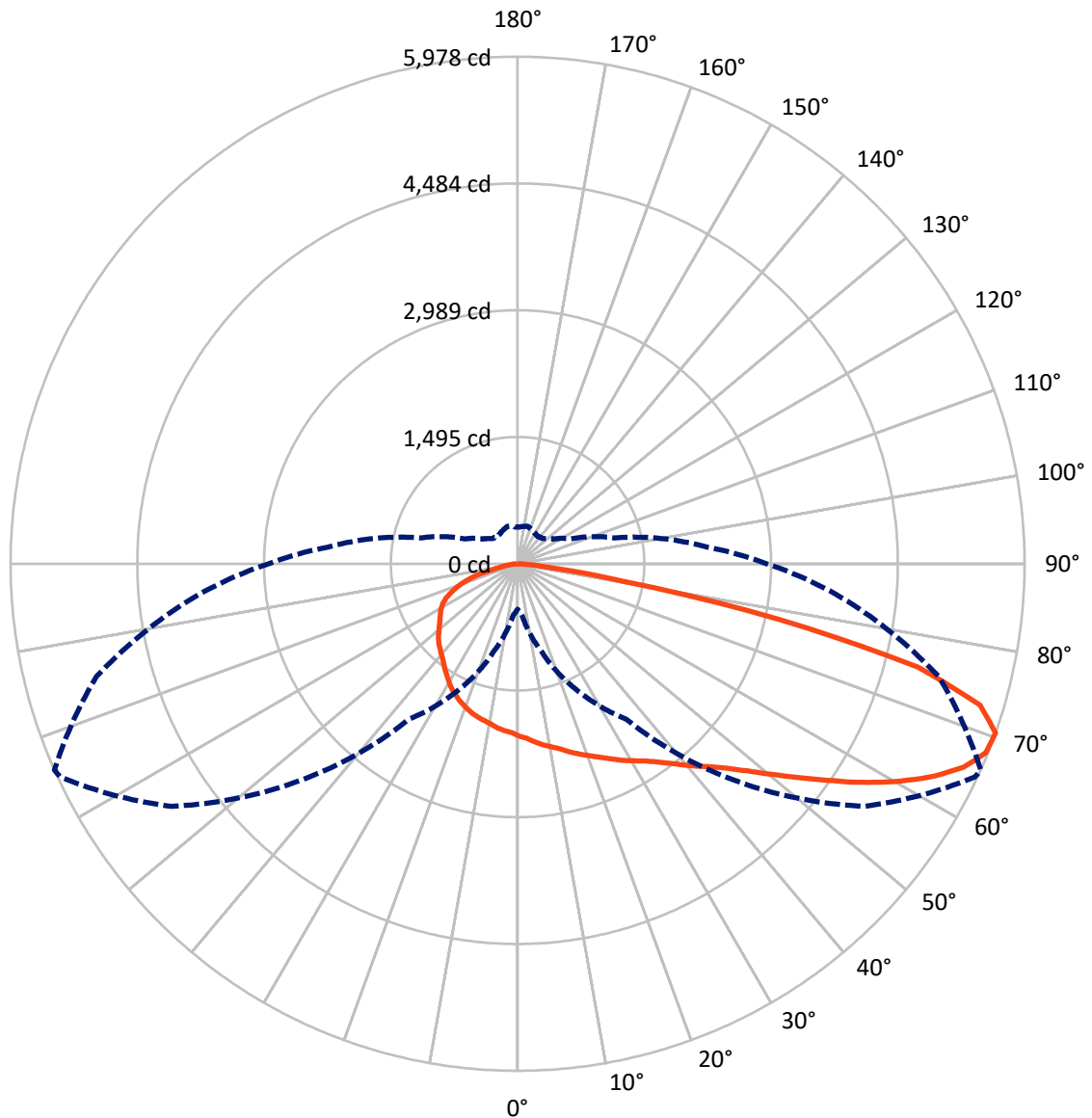
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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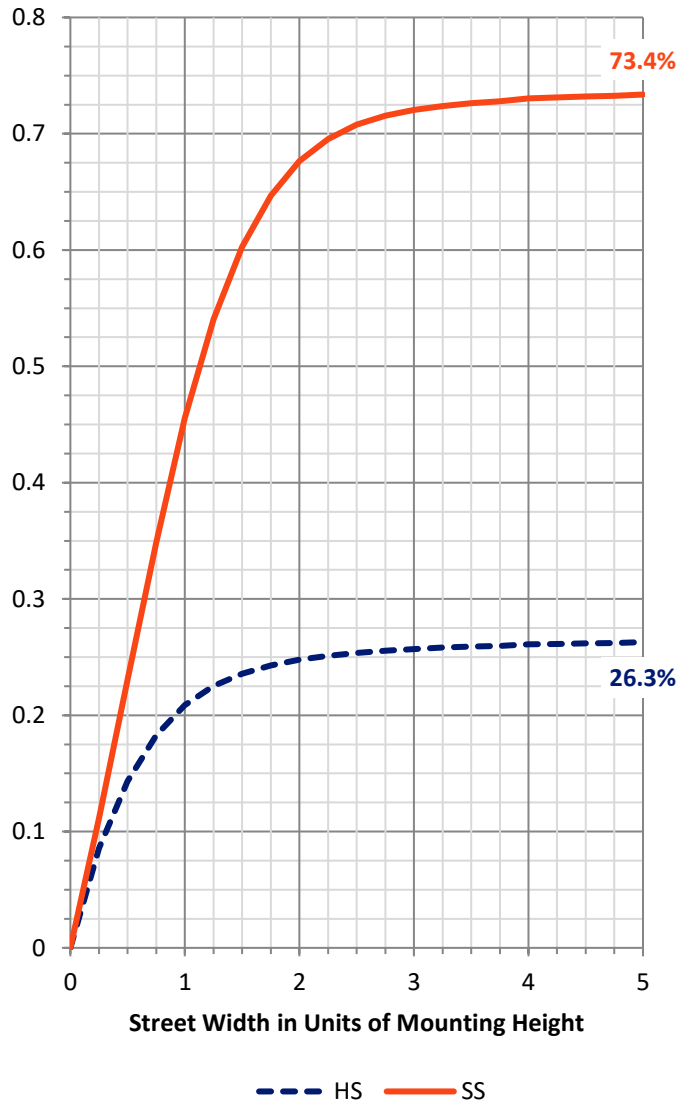
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2983.4	0.0	2983.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8275.6	0.0	8275.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	11259.0	0.0	11259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.7
10°-20°	585.7	5.2
20°-30°	981.8	8.7
30°-40°	1470.1	13.1
40°-50°	1965.5	17.5
50°-60°	2294.8	20.4
60°-70°	2281.8	20.3
70°-80°	1350.9	12.0
80°-90°	133.1	1.2
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°	11259.0	100.0
0°-180°	11259.0	100.0

Coefficient of Utilization

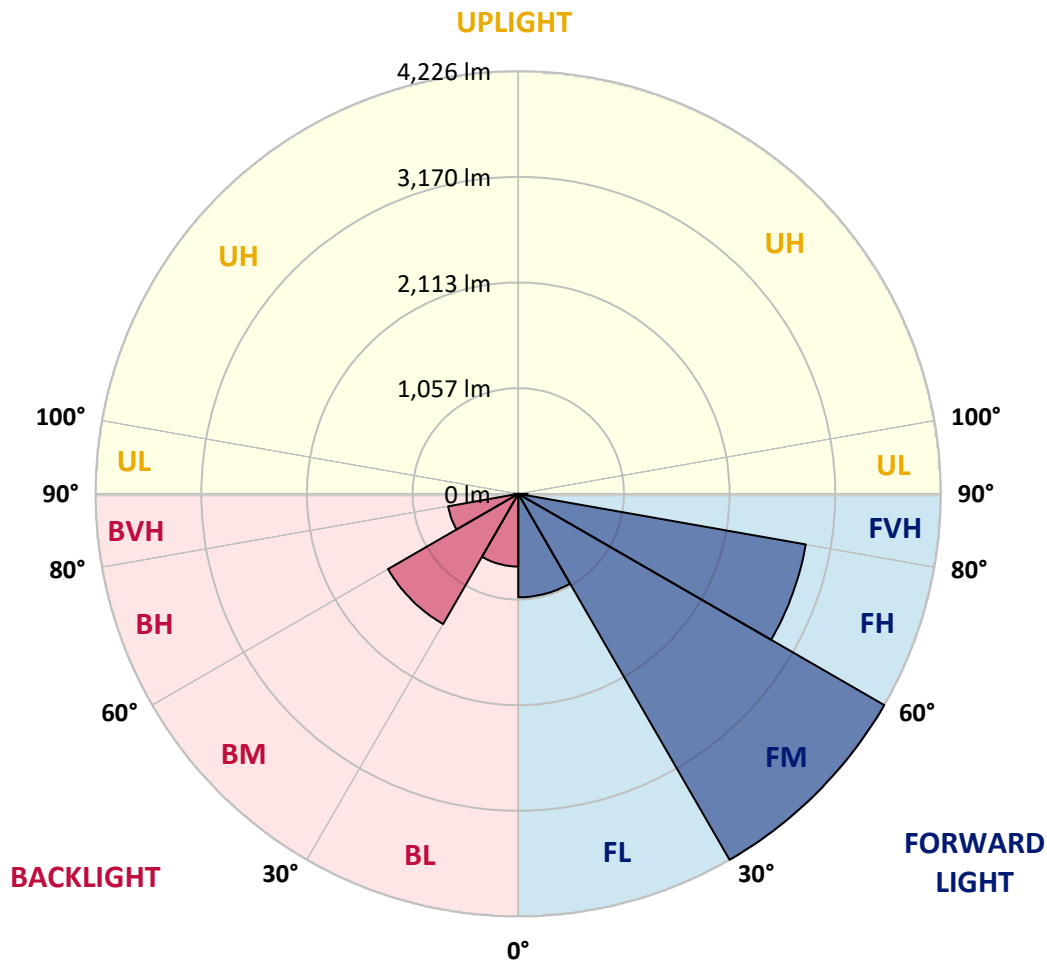


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.5	9.2			
FM (30°-60°)	4226.5	37.5			
FH (60°-80°)	2920.0	25.9			G2/5000
FVH (80°-90°)	93.6	0.8			G1/100
BL (0°-30°)	727.2	6.5	B2/1000		
BM (30°-60°)	1503.9	13.4	B2/2500		
BH (60°-80°)	712.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	39.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0
2.5°	2106.7	2103.4	2101.7	2095.1	2080.1	2086.8	2071.8	2061.9	2060.2	2037.0	2023.7
5°	2193.0	2191.4	2188.0	2178.1	2154.8	2158.2	2133.3	2115.0	2110.0	2073.5	2045.3
7.5°	2266.1	2262.8	2261.1	2247.8	2222.9	2221.2	2191.4	2164.8	2156.5	2106.7	2063.5
10°	2322.5	2317.5	2320.9	2307.6	2281.0	2276.0	2237.8	2203.0	2194.7	2131.6	2071.8
12.5°	2370.7	2367.3	2372.3	2360.7	2339.1	2334.1	2296.0	2251.1	2241.2	2168.1	2090.1
15°	2423.8	2412.2	2422.1	2417.1	2402.2	2400.5	2365.7	2315.9	2302.6	2214.6	2118.3
17.5°	2452.0	2445.4	2457.0	2458.6	2452.0	2463.6	2430.4	2370.7	2359.0	2257.8	2143.2
20°	2471.9	2462.0	2475.2	2485.2	2490.2	2513.4	2486.9	2428.8	2415.5	2299.3	2166.5
22.5°	2540.0	2518.4	2520.1	2526.7	2530.0	2563.2	2546.6	2490.2	2476.9	2350.7	2194.7
25°	2711.0	2667.8	2639.6	2619.7	2596.4	2624.7	2614.7	2559.9	2548.3	2412.2	2229.5
27.5°	2976.6	2921.8	2865.4	2807.3	2716.0	2704.3	2687.7	2637.9	2624.7	2473.6	2264.4
30°	3278.7	3224.0	3157.6	3064.6	2893.6	2804.0	2765.8	2711.0	2696.0	2528.4	2297.6
32.5°	3579.2	3531.1	3464.7	3351.8	3107.8	2925.1	2843.8	2787.4	2772.4	2588.1	2337.5
35°	3813.3	3783.4	3740.3	3599.2	3320.3	3067.9	2956.7	2888.6	2872.0	2682.8	2410.5
37.5°	4002.6	3981.0	3944.5	3796.7	3474.6	3210.7	3086.2	3008.1	2989.9	2785.7	2488.5
40°	4281.5	4225.0	4195.1	3981.0	3609.1	3340.2	3232.3	3150.9	3131.0	2895.3	2551.6
42.5°	4518.9	4477.4	4440.8	4145.3	3736.9	3451.4	3370.1	3295.3	3268.8	3003.2	2619.7
45°	4558.7	4575.3	4557.0	4226.7	3939.5	3561.0	3509.5	3461.4	3436.5	3149.3	2722.6
47.5°	4560.4	4560.4	4452.5	4273.2	4190.2	3683.8	3658.9	3675.5	3649.0	3335.2	2845.5
50°	4440.8	4462.4	4406.0	4284.8	4256.6	3806.7	3841.5	3931.2	3904.6	3532.7	2978.3
52.5°	4193.5	4264.9	4263.2	4266.5	4160.3	3911.3	4034.1	4238.3	4193.5	3755.2	3119.4
55°	3756.9	3899.6	4027.5	4137.0	4077.3	3974.3	4269.8	4565.3	4518.9	4004.2	3262.1
57.5°	3383.3	3474.6	3634.0	3944.5	3979.3	4029.1	4490.6	4907.3	4865.8	4279.8	3411.6
60°	2956.7	3082.9	3242.2	3683.8	3859.8	4100.5	4733.0	5241.0	5201.2	4558.7	3556.0
62.5°	2300.9	2463.6	2782.4	3283.7	3685.5	4145.3	4923.9	5534.9	5516.6	4822.7	3685.5
65°	1603.7	1748.1	2194.7	2792.3	3408.2	4125.4	5076.7	5797.2	5780.6	5038.5	3776.8
67.5°	936.3	1104.0	1608.7	2247.8	2918.5	3987.6	5126.5	5951.5	5951.5	5169.6	3801.7
70°	534.6	612.6	1060.8	1638.5	2237.8	3607.5	4987.0	5949.9	5978.1	5139.7	3698.8
72.5°	373.5	408.4	713.9	1102.3	1517.4	2918.5	4621.8	5662.7	5700.9	4857.5	3346.8
75°	290.5	315.4	503.0	752.0	956.2	1982.2	3823.3	4774.5	4875.8	4140.4	2706.0
77.5°	220.8	239.1	293.8	469.8	612.6	1138.8	2523.4	3131.0	3137.6	2535.0	1450.9
80°	161.0	179.3	195.9	287.2	325.4	532.9	952.9	1308.2	1271.7	1226.8	785.2
82.5°	96.3	114.5	119.5	156.1	159.4	227.4	333.7	421.7	405.1	539.5	368.5
85°	41.5	58.1	61.4	71.4	68.1	93.0	132.8	111.2	99.6	114.5	79.7
87.5°	10.0	16.6	16.6	18.3	14.9	23.2	24.9	18.3	16.6	19.9	19.9
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°	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0	2032.0
2.5°	2020.4	2015.4	2017.1	1988.8	1980.5	1972.2	1967.2	1963.9	1960.6	1965.6	1970.6
5°	2035.3	2023.7	2010.4	1968.9	1952.3	1934.0	1920.8	1909.1	1904.2	1904.2	1909.1
7.5°	2046.9	2027.0	1998.8	1944.0	1914.1	1889.2	1867.6	1852.7	1844.4	1844.4	1849.4
10°	2048.6	2020.4	1975.5	1909.1	1869.3	1832.8	1807.9	1791.3	1779.7	1779.7	1783.0
12.5°	2058.6	2020.4	1962.3	1882.6	1832.8	1788.0	1758.1	1733.2	1728.2	1728.2	1731.5
15°	2075.2	2028.7	1954.0	1859.3	1799.6	1748.1	1714.9	1688.3	1678.4	1685.0	1686.7
17.5°	2090.1	2033.7	1939.0	1829.5	1758.1	1701.6	1665.1	1641.9	1628.6	1643.5	1643.5
20°	2100.1	2033.7	1917.4	1791.3	1713.2	1650.2	1615.3	1587.1	1577.1	1595.4	1597.0
22.5°	2115.0	2032.0	1894.2	1753.1	1665.1	1598.7	1563.8	1542.3	1537.3	1557.2	1563.8
25°	2131.6	2035.3	1869.3	1709.9	1612.0	1547.2	1520.7	1510.7	1514.0	1538.9	1547.2
27.5°	2149.9	2042.0	1844.4	1661.8	1553.9	1495.8	1480.8	1485.8	1499.1	1530.6	1540.6
30°	2166.5	2043.6	1809.5	1605.3	1487.5	1432.7	1439.3	1460.9	1480.8	1512.4	1524.0
32.5°	2188.0	2045.3	1773.0	1543.9	1416.1	1376.2	1406.1	1441.0	1460.9	1490.8	1504.1
35°	2241.2	2073.5	1744.8	1484.2	1349.7	1328.1	1377.9	1422.7	1434.3	1460.9	1472.5
37.5°	2302.6	2120.0	1729.9	1422.7	1284.9	1280.0	1343.0	1387.9	1391.2	1407.8	1419.4
40°	2340.8	2139.9	1713.2	1371.3	1226.8	1230.2	1294.9	1329.8	1323.1	1334.7	1343.0
42.5°	2379.0	2146.5	1678.4	1328.1	1172.0	1175.4	1225.2	1250.1	1253.4	1278.3	1289.9
45°	2443.7	2164.8	1640.2	1288.3	1122.2	1110.6	1140.5	1173.7	1216.9	1265.0	1278.3
47.5°	2530.0	2203.0	1600.4	1240.1	1074.1	1035.9	1047.5	1105.6	1150.5	1195.3	1203.6
50°	2618.0	2241.2	1563.8	1182.0	1026.0	956.2	961.2	1014.3	1050.9	1085.7	1090.7
52.5°	2704.3	2274.4	1532.3	1127.2	971.2	861.6	881.5	936.3	961.2	977.8	982.8
55°	2790.7	2302.6	1504.1	1080.7	908.1	786.9	805.2	856.6	881.5	889.8	893.1
57.5°	2880.3	2335.8	1482.5	1040.9	836.7	720.5	732.1	768.6	791.9	801.8	798.5
60°	2955.0	2364.0	1470.9	999.4	765.3	659.1	655.7	689.0	722.2	732.1	728.8
62.5°	3013.1	2382.3	1452.6	946.3	702.2	597.6	581.0	624.2	659.1	665.7	670.7
65°	3044.7	2383.9	1407.8	878.2	637.5	531.2	519.6	562.8	584.4	591.0	591.0
67.5°	3039.7	2357.4	1319.8	786.9	577.7	471.5	461.5	488.1	519.6	524.6	519.6
70°	2936.8	2247.8	1178.7	690.6	506.3	418.4	400.1	426.7	456.5	438.3	430.0
72.5°	2644.6	1963.9	971.2	584.4	426.7	351.9	343.6	370.2	371.9	375.2	366.9
75°	2086.8	1462.6	727.1	454.9	345.3	295.5	293.8	288.9	295.5	308.8	298.8
77.5°	1095.7	730.5	393.4	278.9	250.7	237.4	225.8	224.1	244.0	252.3	242.4
80°	594.3	410.1	225.8	167.7	152.7	154.4	169.3	166.0	187.6	192.6	184.3
82.5°	259.0	194.2	111.2	101.3	101.3	99.6	104.6	116.2	139.5	139.5	111.2
85°	56.4	48.1	43.2	49.8	56.4	56.4	56.4	56.4	39.8	21.6	14.9
87.5°	18.3	18.3	18.3	19.9	21.6	21.6	18.3	13.3	8.3	1.7	0.0
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)