

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: P799287

Luminaire Tested: **ARCH2-100-740-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13278 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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

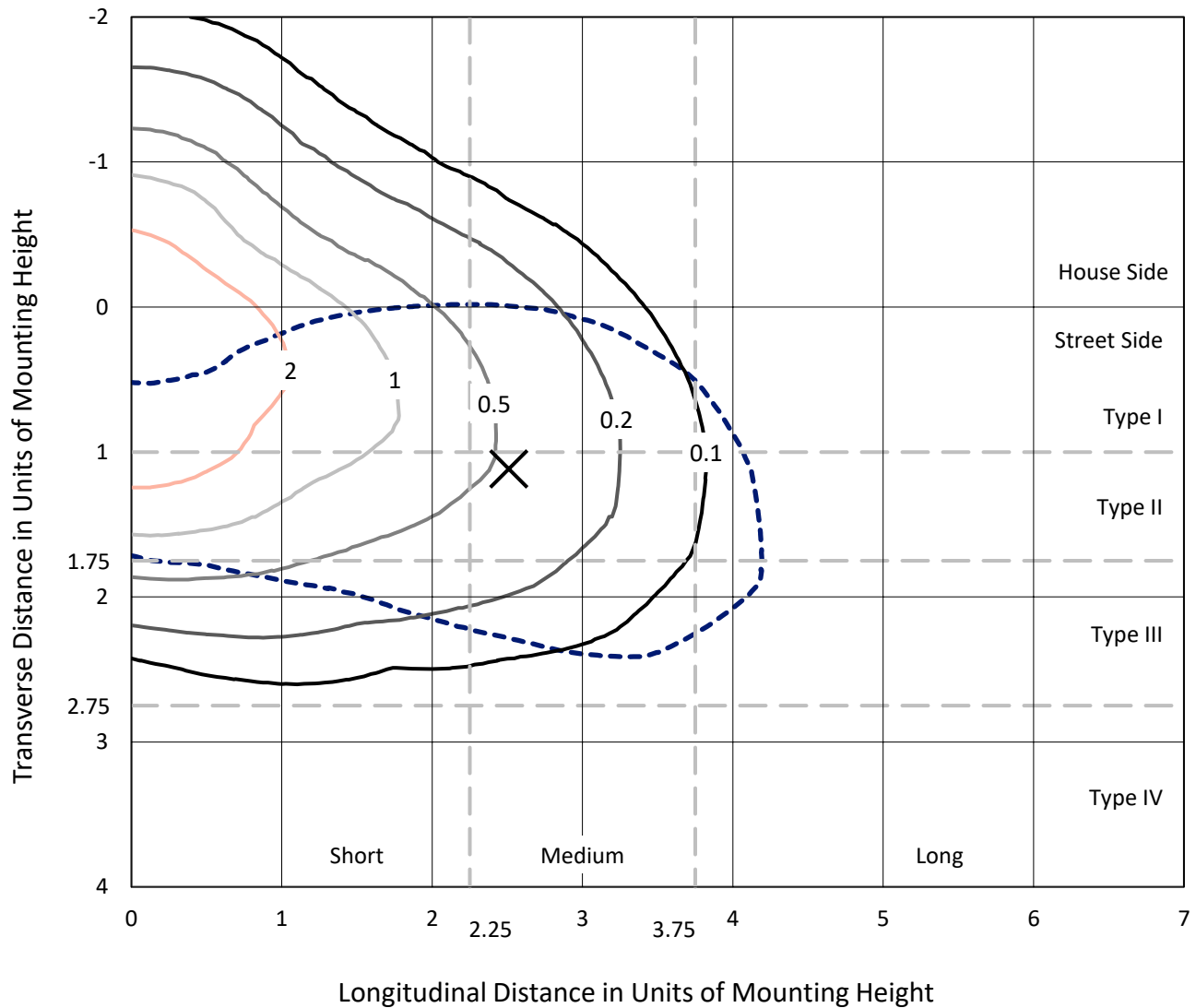


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Iso-Footcandle Lines of Horizontal Illumination

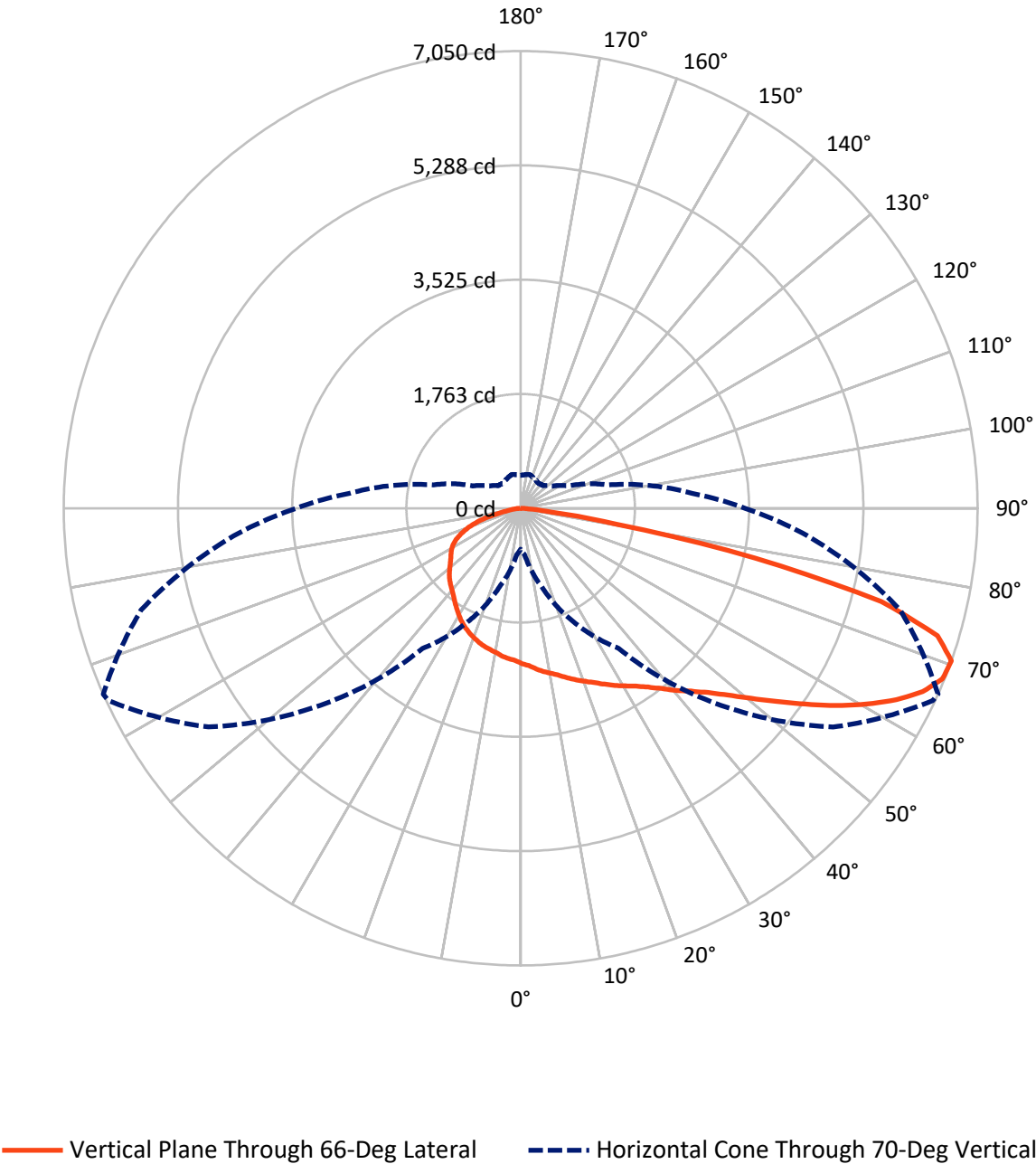
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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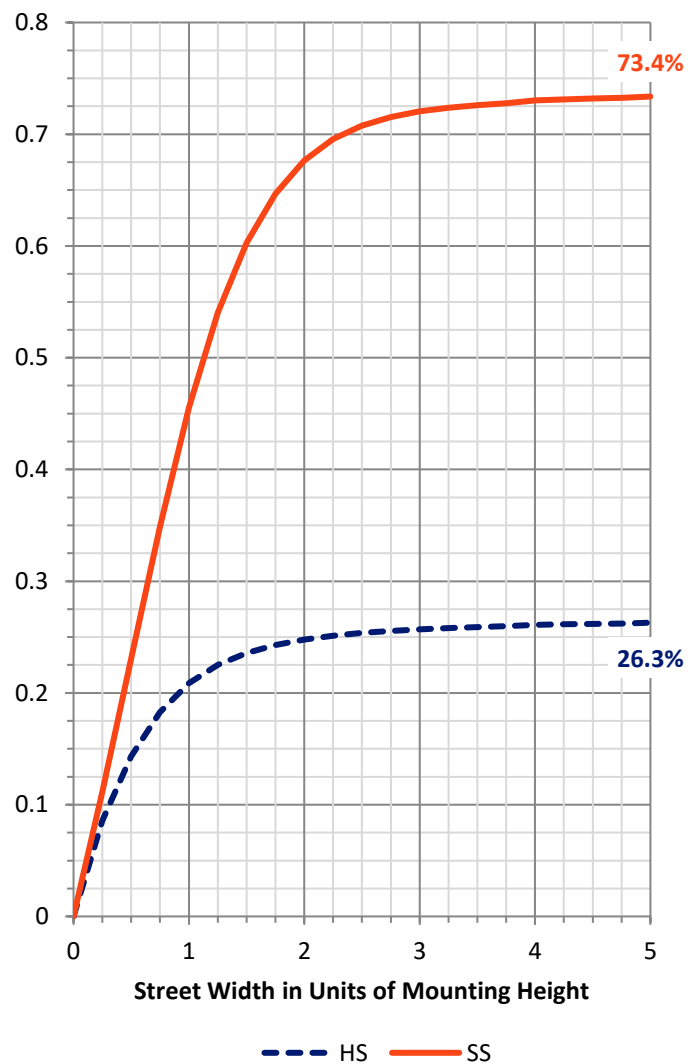
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3518.4	0.0	3518.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9759.6	0.0	9759.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	13278.0	0.0	13278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.7
10°-20°	690.7	5.2
20°-30°	1157.9	8.7
30°-40°	1733.7	13.1
40°-50°	2318.0	17.5
50°-60°	2706.3	20.4
60°-70°	2691.0	20.3
70°-80°	1593.1	12.0
80°-90°	157.0	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°	13278.0	100.0
0°-180°	13278.0	100.0

Coefficient of Utilization



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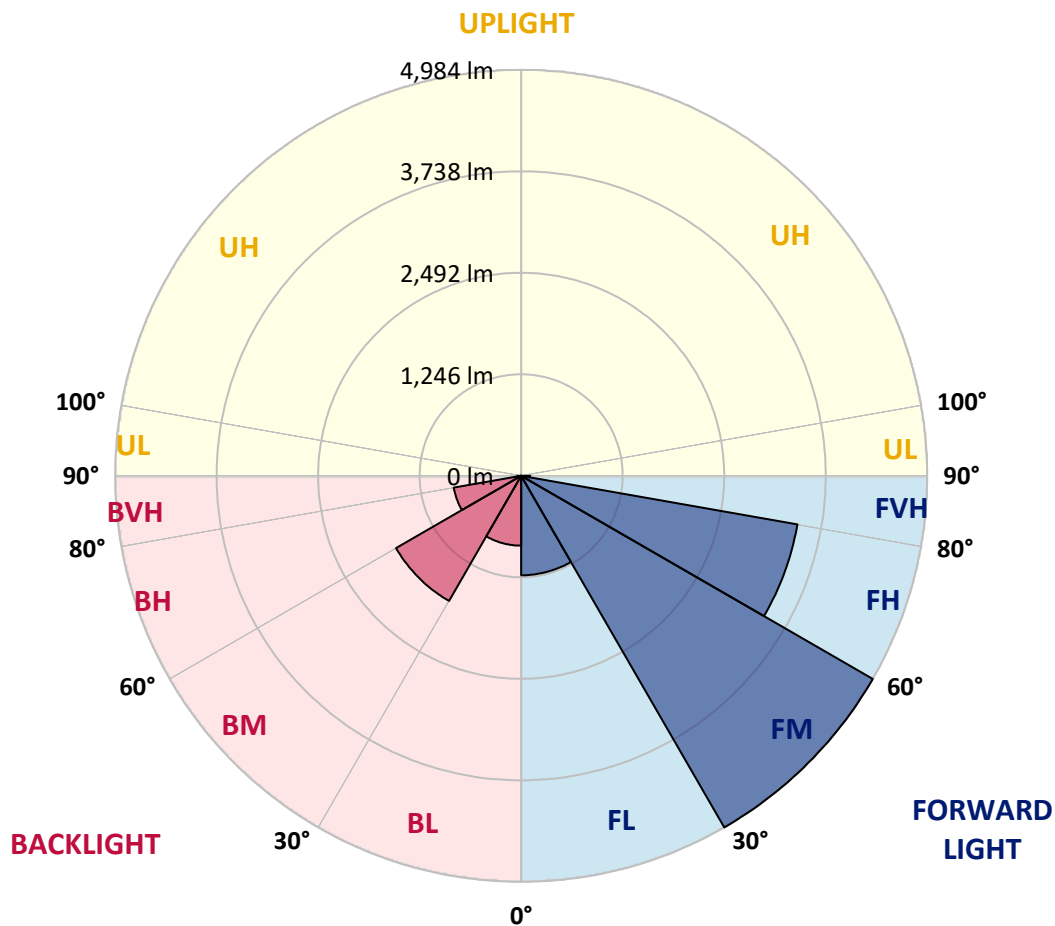
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1221.2	9.2			
FM	(30°-60°)	4984.4	37.5			
FH	(60°-80°)	3443.7	25.9			G2/5000
FVH	(80°-90°)	110.4	0.8			G2/225
BL	(0°-30°)	857.6	6.5	B2/1000		
BM	(30°-60°)	1773.6	13.4	B2/2500		
BH	(60°-80°)	840.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	46.7	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°	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4
2.5°	2484.5	2480.6	2478.6	2470.8	2453.2	2461.0	2443.4	2431.6	2429.7	2402.3	2386.6
5°	2586.3	2584.3	2580.4	2568.7	2541.3	2545.2	2515.8	2494.3	2488.4	2445.3	2412.0
7.5°	2672.4	2668.5	2666.6	2650.9	2621.5	2619.6	2584.3	2553.0	2543.2	2484.5	2433.6
10°	2739.0	2733.1	2737.0	2721.4	2690.1	2684.2	2639.1	2598.0	2588.2	2513.8	2443.4
12.5°	2795.8	2791.9	2797.7	2784.0	2758.6	2752.7	2707.7	2654.8	2643.1	2556.9	2464.9
15°	2858.4	2844.7	2856.5	2850.6	2833.0	2831.0	2789.9	2731.2	2715.5	2611.7	2498.2
17.5°	2891.7	2883.9	2897.6	2899.5	2891.7	2905.4	2866.3	2795.8	2782.1	2662.6	2527.6
20°	2915.2	2903.5	2919.1	2930.9	2936.7	2964.1	2932.8	2864.3	2848.6	2711.6	2555.0
22.5°	2995.5	2970.0	2972.0	2979.8	2983.7	3022.9	3003.3	2936.7	2921.1	2772.3	2588.2
25°	3197.1	3146.2	3112.9	3089.4	3062.0	3095.3	3083.6	3019.0	3005.3	2844.7	2629.4
27.5°	3510.4	3445.8	3379.2	3310.7	3203.0	3189.3	3169.7	3111.0	3095.3	2917.2	2670.5
30°	3866.7	3802.1	3723.8	3614.1	3412.5	3306.8	3261.7	3197.1	3179.5	2981.8	2709.6
32.5°	4221.1	4164.3	4086.0	3952.8	3665.0	3449.7	3353.8	3287.2	3269.6	3052.2	2756.6
35°	4497.1	4461.9	4411.0	4244.6	3915.6	3618.1	3486.9	3406.6	3387.0	3163.8	2842.8
37.5°	4720.3	4694.9	4651.8	4477.5	4097.7	3786.4	3639.6	3547.6	3526.0	3285.2	2934.8
40°	5049.2	4982.7	4947.4	4694.9	4256.3	3939.1	3811.9	3716.0	3692.5	3414.4	3009.2
42.5°	5329.2	5280.3	5237.2	4888.7	4407.1	4070.3	3974.4	3886.3	3855.0	3541.7	3089.4
45°	5376.2	5395.8	5374.2	4984.6	4645.9	4199.5	4138.8	4082.1	4052.7	3714.0	3210.8
47.5°	5378.1	5378.1	5250.9	5039.4	4941.5	4344.4	4315.0	4334.6	4303.3	3933.3	3355.7
50°	5237.2	5262.6	5196.1	5053.1	5019.9	4489.3	4530.4	4636.1	4604.8	4166.2	3512.3
52.5°	4945.5	5029.6	5027.7	5031.6	4906.3	4612.6	4757.5	4998.3	4945.5	4428.6	3678.8
55°	4430.6	4598.9	4749.7	4878.9	4808.4	4687.0	5035.5	5384.0	5329.2	4722.3	3847.1
57.5°	3990.0	4097.7	4285.7	4651.8	4692.9	4751.6	5295.9	5787.3	5738.4	5047.3	4023.3
60°	3486.9	3635.7	3823.6	4344.4	4551.9	4835.8	5581.8	6180.9	6133.9	5376.2	4193.7
62.5°	2713.5	2905.4	3281.3	3872.6	4346.4	4888.7	5806.9	6527.4	6505.8	5687.5	4346.4
65°	1891.3	2061.6	2588.2	3293.1	4019.4	4865.2	5987.0	6836.7	6817.1	5942.0	4454.0
67.5°	1104.2	1302.0	1897.1	2650.9	3441.9	4702.7	6045.8	7018.8	7018.8	6096.7	4483.4
70°	630.4	722.4	1251.0	1932.4	2639.1	4254.4	5881.3	7016.8	7050.1	6061.4	4362.0
72.5°	440.5	481.6	841.9	1300.0	1789.5	3441.9	5450.6	6678.1	6723.2	5728.6	3947.0
75°	342.6	372.0	593.2	886.9	1127.7	2337.6	4508.9	5630.7	5750.1	4882.8	3191.3
77.5°	260.4	281.9	346.5	554.1	722.4	1343.1	2975.9	3692.5	3700.3	2989.6	1711.1
80°	189.9	211.4	231.0	338.7	383.7	628.5	1123.8	1542.8	1499.7	1446.8	926.1
82.5°	113.6	135.1	141.0	184.0	188.0	268.2	393.5	497.3	477.7	636.3	434.6
85°	48.9	68.5	72.4	84.2	80.3	109.6	156.6	131.2	117.5	135.1	94.0
87.5°	11.7	19.6	19.6	21.5	17.6	27.4	29.4	21.5	19.6	23.5	23.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4
2.5°	2382.7	2376.8	2378.8	2345.5	2335.7	2325.9	2320.0	2316.1	2312.2	2318.1	2323.9
5°	2400.3	2386.6	2370.9	2322.0	2302.4	2280.9	2265.2	2251.5	2245.6	2245.6	2251.5
7.5°	2414.0	2390.5	2357.2	2292.6	2257.4	2228.0	2202.6	2184.9	2175.1	2175.1	2181.0
10°	2416.0	2382.7	2329.8	2251.5	2204.5	2161.4	2132.1	2112.5	2098.8	2098.8	2102.7
12.5°	2427.7	2382.7	2314.1	2220.2	2161.4	2108.6	2073.3	2044.0	2038.1	2038.1	2042.0
15°	2447.3	2392.5	2304.4	2192.8	2122.3	2061.6	2022.4	1991.1	1979.4	1987.2	1989.1
17.5°	2464.9	2398.3	2286.7	2157.5	2073.3	2006.8	1963.7	1936.3	1920.6	1938.2	1938.2
20°	2476.6	2398.3	2261.3	2112.5	2020.5	1946.1	1905.0	1871.7	1859.9	1881.5	1883.4
22.5°	2494.3	2396.4	2233.9	2067.5	1963.7	1885.4	1844.3	1818.8	1812.9	1836.4	1844.3
25°	2513.8	2400.3	2204.5	2016.6	1901.0	1824.7	1793.4	1781.6	1785.5	1814.9	1824.7
27.5°	2535.4	2408.1	2175.1	1959.8	1832.5	1764.0	1746.4	1752.3	1767.9	1805.1	1816.9
30°	2555.0	2410.1	2134.0	1893.2	1754.2	1689.6	1697.4	1722.9	1746.4	1783.6	1797.3
32.5°	2580.4	2412.0	2091.0	1820.8	1670.0	1623.0	1658.3	1699.4	1722.9	1758.1	1773.8
35°	2643.1	2445.3	2057.7	1750.3	1591.7	1566.3	1625.0	1677.9	1691.6	1722.9	1736.6
37.5°	2715.5	2500.1	2040.1	1677.9	1515.4	1509.5	1583.9	1636.7	1640.7	1660.2	1673.9
40°	2760.5	2523.6	2020.5	1617.2	1446.8	1450.7	1527.1	1568.2	1560.4	1574.1	1583.9
42.5°	2805.6	2531.5	1979.4	1566.3	1382.2	1386.1	1444.9	1474.2	1478.2	1507.5	1521.2
45°	2881.9	2553.0	1934.3	1519.3	1323.5	1309.8	1345.0	1384.2	1435.1	1491.9	1507.5
47.5°	2983.7	2598.0	1887.3	1462.5	1266.7	1221.7	1235.4	1303.9	1356.8	1409.6	1419.4
50°	3087.5	2643.1	1844.3	1394.0	1209.9	1127.7	1133.6	1196.2	1239.3	1280.4	1286.3
52.5°	3189.3	2682.2	1807.1	1329.4	1145.3	1016.1	1039.6	1104.2	1133.6	1153.2	1159.0
55°	3291.1	2715.5	1773.8	1274.5	1070.9	928.0	949.5	1010.2	1039.6	1049.4	1053.3
57.5°	3396.8	2754.7	1748.3	1227.6	986.7	849.7	863.4	906.5	933.9	945.6	941.7
60°	3484.9	2787.9	1734.6	1178.6	902.6	777.3	773.3	812.5	851.7	863.4	859.5
62.5°	3553.5	2809.5	1713.1	1116.0	828.2	704.8	685.2	736.1	777.3	785.1	791.0
65°	3590.6	2811.4	1660.2	1035.7	751.8	626.5	612.8	663.7	689.2	697.0	697.0
67.5°	3584.8	2780.1	1556.5	928.0	681.3	556.0	544.3	575.6	612.8	618.7	612.8
70°	3463.4	2650.9	1390.1	814.5	597.1	493.4	471.8	503.2	538.4	516.9	507.1
72.5°	3118.8	2316.1	1145.3	689.2	503.2	415.1	405.3	436.6	438.6	442.5	432.7
75°	2461.0	1724.8	857.5	536.4	407.2	348.5	346.5	340.7	348.5	364.2	352.4
77.5°	1292.2	861.4	464.0	328.9	295.6	280.0	266.3	264.3	287.8	297.6	285.8
80°	700.9	483.6	266.3	197.7	180.1	182.1	199.7	195.8	221.2	227.1	217.3
82.5°	305.4	229.1	131.2	119.4	119.4	117.5	123.3	137.0	164.5	164.5	131.2
85°	66.6	56.8	50.9	58.7	66.6	66.6	66.6	66.6	47.0	25.5	17.6
87.5°	21.5	21.5	21.5	23.5	25.5	25.5	21.5	15.7	9.8	2.0	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)