

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: P799383

Luminaire Tested: **ARCH2-110-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799383
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: ARCH2-110-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13100 lumens
Efficiency: N/A
Efficacy: 119.6 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): 109.5
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

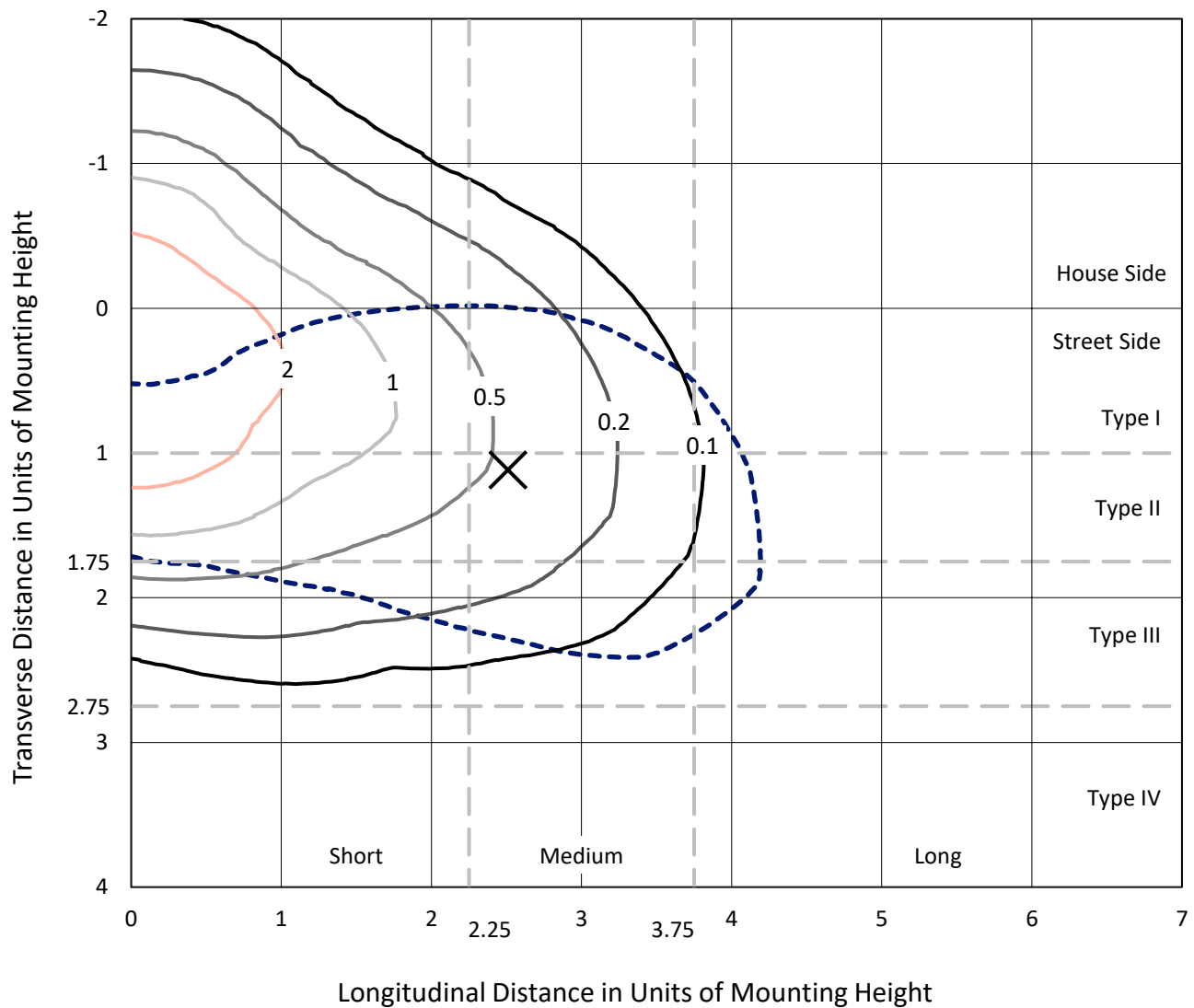


REPORT NUMBER: P799383

CATALOG NUMBER: ARCH2-110-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

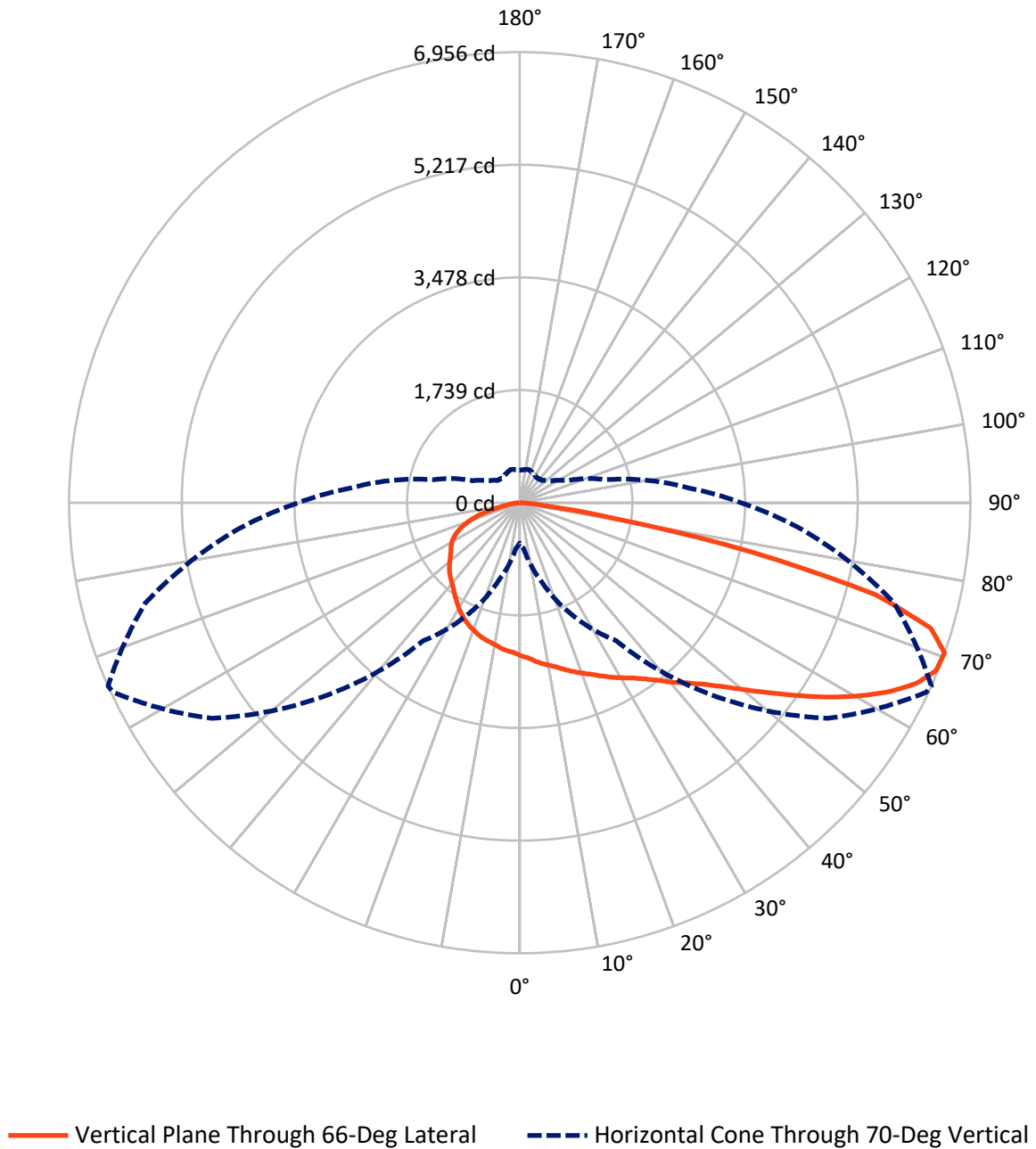


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Medium - N/A

REPORT NUMBER: P799383

CATALOG NUMBER: ARCH2-110-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P799383

CATALOG NUMBER: ARCH2-110-730-U-T3

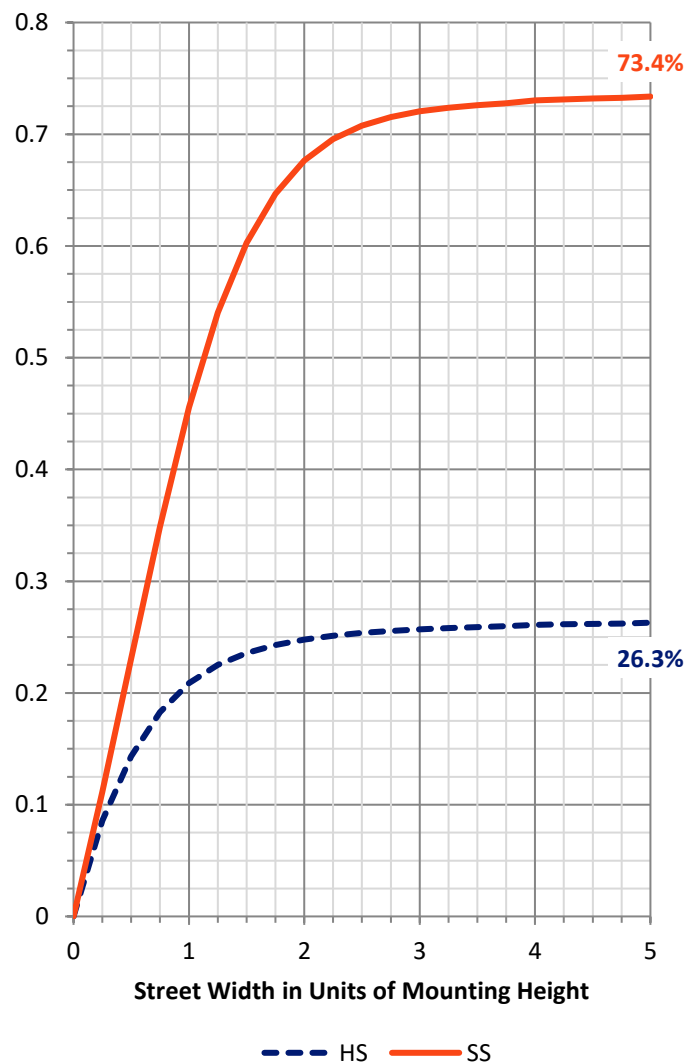
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3471.2	0.0	3471.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9628.8	0.0	9628.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	13100.0	0.0	13100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.7
10°-20°	681.5	5.2
20°-30°	1142.3	8.7
30°-40°	1710.5	13.1
40°-50°	2286.9	17.5
50°-60°	2670.0	20.4
60°-70°	2654.9	20.3
70°-80°	1571.8	12.0
80°-90°	154.9	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°	13100.0	100.0
0°-180°	13100.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799383

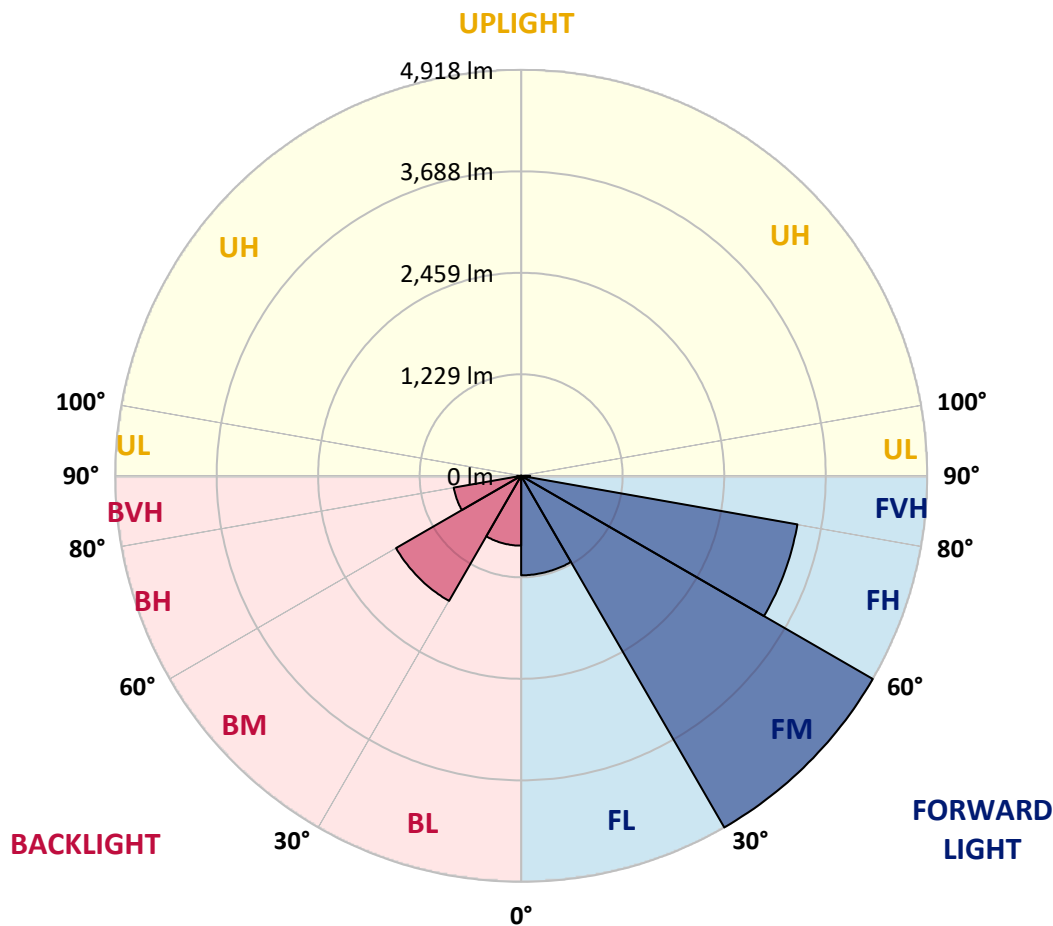
CATALOG NUMBER: ARCH2-110-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1204.9	9.2			
FM	(30°-60°)	4917.6	37.5			
FH	(60°-80°)	3397.5	25.9			G2/5000
FVH	(80°-90°)	108.9	0.8			G2/225
BL	(0°-30°)	846.1	6.5	B2/1000		
BM	(30°-60°)	1749.8	13.4	B2/2500		
BH	(60°-80°)	829.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	46.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P799383

CATALOG NUMBER: ARCH2-110-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3
2.5°	2451.2	2447.3	2445.4	2437.7	2420.3	2428.0	2410.6	2399.0	2397.1	2370.0	2354.6
5°	2551.6	2549.7	2545.8	2534.2	2507.2	2511.1	2482.1	2460.8	2455.0	2412.5	2379.7
7.5°	2636.6	2632.7	2630.8	2615.4	2586.4	2584.5	2549.7	2518.8	2509.1	2451.2	2401.0
10°	2702.3	2696.5	2700.3	2684.9	2654.0	2648.2	2603.8	2563.2	2553.5	2480.1	2410.6
12.5°	2758.3	2754.4	2760.2	2746.7	2721.6	2715.8	2671.4	2619.2	2607.6	2522.6	2431.9
15°	2820.1	2806.6	2818.2	2812.4	2795.0	2793.1	2752.5	2694.6	2679.1	2576.7	2464.7
17.5°	2852.9	2845.2	2858.7	2860.7	2852.9	2866.5	2827.8	2758.3	2744.8	2626.9	2493.7
20°	2876.1	2864.5	2880.0	2891.6	2897.4	2924.4	2893.5	2825.9	2810.4	2675.2	2520.7
22.5°	2955.3	2930.2	2932.1	2939.9	2943.7	2982.4	2963.0	2897.4	2881.9	2735.1	2553.5
25°	3154.3	3104.0	3071.2	3048.0	3021.0	3053.8	3042.2	2978.5	2965.0	2806.6	2594.1
27.5°	3463.3	3399.6	3333.9	3266.3	3160.1	3146.5	3127.2	3069.3	3053.8	2878.1	2634.7
30°	3814.9	3751.1	3673.9	3565.7	3366.7	3262.4	3218.0	3154.3	3136.9	2941.8	2673.3
32.5°	4164.5	4108.5	4031.2	3899.9	3615.9	3403.4	3308.8	3243.1	3225.7	3011.3	2719.7
35°	4436.8	4402.1	4351.8	4187.7	3863.2	3569.6	3440.1	3360.9	3341.6	3121.4	2804.7
37.5°	4657.0	4631.9	4589.4	4417.5	4042.8	3735.7	3590.8	3500.0	3478.8	3241.2	2895.4
40°	4981.5	4915.9	4881.1	4631.9	4199.3	3886.3	3760.8	3666.1	3643.0	3368.7	2968.8
42.5°	5257.8	5209.5	5167.0	4823.2	4348.0	4015.8	3921.1	3834.2	3803.3	3494.2	3048.0
45°	5304.1	5323.4	5302.2	4917.8	4583.6	4143.2	4083.4	4027.3	3998.4	3664.2	3167.8
47.5°	5306.0	5306.0	5180.5	4971.9	4875.3	4286.2	4257.2	4276.5	4245.6	3880.5	3310.7
50°	5167.0	5192.1	5126.4	4985.4	4952.6	4429.1	4469.7	4574.0	4543.1	4110.4	3465.3
52.5°	4879.2	4962.2	4960.3	4964.2	4840.5	4550.8	4693.7	4931.3	4879.2	4369.2	3629.4
55°	4371.2	4537.3	4686.0	4813.5	4744.0	4624.2	4968.0	5311.8	5257.8	4659.0	3795.6
57.5°	3936.6	4042.8	4228.2	4589.4	4630.0	4687.9	5224.9	5709.7	5661.5	4979.6	3969.4
60°	3440.1	3586.9	3772.4	4286.2	4490.9	4771.0	5506.9	6098.0	6051.6	5304.1	4137.4
62.5°	2677.2	2866.5	3237.3	3820.7	4288.1	4823.2	5729.1	6439.9	6418.6	5611.2	4288.1
65°	1865.9	2034.0	2553.5	3248.9	3965.5	4800.0	5906.8	6745.1	6725.8	5862.3	4394.3
67.5°	1089.4	1284.5	1871.7	2615.4	3395.7	4639.7	5964.7	6924.7	6924.7	6014.9	4423.3
70°	622.0	712.8	1234.3	1906.5	2603.8	4197.3	5802.5	6922.8	6955.6	5980.2	4303.6
72.5°	434.6	475.2	830.6	1282.6	1765.5	3395.7	5377.5	6588.6	6633.0	5651.8	3894.1
75°	338.0	367.0	585.3	875.0	1112.6	2306.3	4448.4	5555.2	5673.0	4817.4	3148.5
77.5°	256.9	278.1	341.9	546.6	712.8	1325.1	2936.0	3643.0	3650.7	2949.5	1688.2
80°	187.4	208.6	227.9	334.2	378.6	620.0	1108.7	1522.1	1479.6	1427.4	913.6
82.5°	112.0	133.3	139.1	181.6	185.4	264.6	388.2	490.6	471.3	627.8	428.8
85°	48.3	67.6	71.5	83.1	79.2	108.2	154.5	129.4	115.9	133.3	92.7
87.5°	11.6	19.3	19.3	21.2	17.4	27.0	29.0	21.2	19.3	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799383

CATALOG NUMBER: ARCH2-110-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3
2.5°	2350.7	2344.9	2346.9	2314.0	2304.4	2294.7	2288.9	2285.1	2281.2	2287.0	2292.8
5°	2368.1	2354.6	2339.1	2290.9	2271.5	2250.3	2234.8	2221.3	2215.5	2215.5	2221.3
7.5°	2381.6	2358.5	2325.6	2261.9	2227.1	2198.1	2173.0	2155.6	2146.0	2146.0	2151.8
10°	2383.6	2350.7	2298.6	2221.3	2175.0	2132.5	2103.5	2084.2	2070.7	2070.7	2074.5
12.5°	2395.2	2350.7	2283.1	2190.4	2132.5	2080.3	2045.5	2016.6	2010.8	2010.8	2014.6
15°	2414.5	2360.4	2273.5	2163.4	2093.8	2034.0	1995.3	1964.4	1952.8	1960.6	1962.5
17.5°	2431.9	2366.2	2256.1	2128.6	2045.5	1979.9	1937.4	1910.3	1894.9	1912.3	1912.3
20°	2443.4	2366.2	2231.0	2084.2	1993.4	1920.0	1879.4	1846.6	1835.0	1856.2	1858.2
22.5°	2460.8	2364.3	2203.9	2039.7	1937.4	1860.1	1819.5	1794.4	1788.6	1811.8	1819.5
25°	2480.1	2368.1	2175.0	1989.5	1875.6	1800.2	1769.3	1757.7	1761.6	1790.6	1800.2
27.5°	2501.4	2375.8	2146.0	1933.5	1808.0	1740.4	1723.0	1728.8	1744.2	1780.9	1792.5
30°	2520.7	2377.8	2105.4	1867.8	1730.7	1667.0	1674.7	1699.8	1723.0	1759.7	1773.2
32.5°	2545.8	2379.7	2062.9	1796.4	1647.6	1601.3	1636.0	1676.6	1699.8	1734.6	1750.0
35°	2607.6	2412.5	2030.1	1726.8	1570.4	1545.3	1603.2	1655.4	1668.9	1699.8	1713.3
37.5°	2679.1	2466.6	2012.7	1655.4	1495.0	1489.2	1562.6	1614.8	1618.7	1638.0	1651.5
40°	2723.5	2489.8	1993.4	1595.5	1427.4	1431.3	1506.6	1547.2	1539.5	1553.0	1562.6
42.5°	2768.0	2497.5	1952.8	1545.3	1363.7	1367.6	1425.5	1454.5	1458.3	1487.3	1500.8
45°	2843.3	2518.8	1908.4	1498.9	1305.7	1292.2	1327.0	1365.6	1415.8	1471.9	1487.3
47.5°	2943.7	2563.2	1862.0	1442.9	1249.7	1205.3	1218.8	1286.4	1338.6	1390.7	1400.4
50°	3046.1	2607.6	1819.5	1375.3	1193.7	1112.6	1118.4	1180.2	1222.7	1263.3	1269.0
52.5°	3146.5	2646.3	1782.8	1311.5	1130.0	1002.5	1025.7	1089.4	1118.4	1137.7	1143.5
55°	3247.0	2679.1	1750.0	1257.5	1056.6	915.6	936.8	996.7	1025.7	1035.3	1039.2
57.5°	3351.3	2717.7	1724.9	1211.1	973.5	838.3	851.8	894.3	921.4	933.0	929.1
60°	3438.2	2750.6	1711.4	1162.8	890.5	766.8	763.0	801.6	840.2	851.8	848.0
62.5°	3505.8	2771.8	1690.1	1101.0	817.1	695.4	676.1	726.3	766.8	774.6	780.4
65°	3542.5	2773.7	1638.0	1021.8	741.7	618.1	604.6	654.8	679.9	687.6	687.6
67.5°	3536.7	2742.8	1535.6	915.6	672.2	548.6	537.0	567.9	604.6	610.4	604.6
70°	3417.0	2615.4	1371.4	803.5	589.1	486.8	465.5	496.4	531.2	509.9	500.3
72.5°	3077.0	2285.1	1130.0	679.9	496.4	409.5	399.8	430.7	432.7	436.5	426.9
75°	2428.0	1701.7	846.0	529.3	401.8	343.8	341.9	336.1	343.8	359.3	347.7
77.5°	1274.8	849.9	457.8	324.5	291.7	276.2	262.7	260.8	283.9	293.6	282.0
80°	691.5	477.1	262.7	195.1	177.7	179.6	197.0	193.2	218.3	224.1	214.4
82.5°	301.3	226.0	129.4	117.8	117.8	115.9	121.7	135.2	162.3	162.3	129.4
85°	65.7	56.0	50.2	57.9	65.7	65.7	65.7	65.7	46.4	25.1	17.4
87.5°	21.2	21.2	21.2	23.2	25.1	25.1	21.2	15.5	9.7	1.9	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)