

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: P800279

Luminaire Tested: **ARCH2-90-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800279
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: ARCH2-90-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11870 lumens
Efficiency: N/A
Efficacy: 126.7 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): 93.7
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

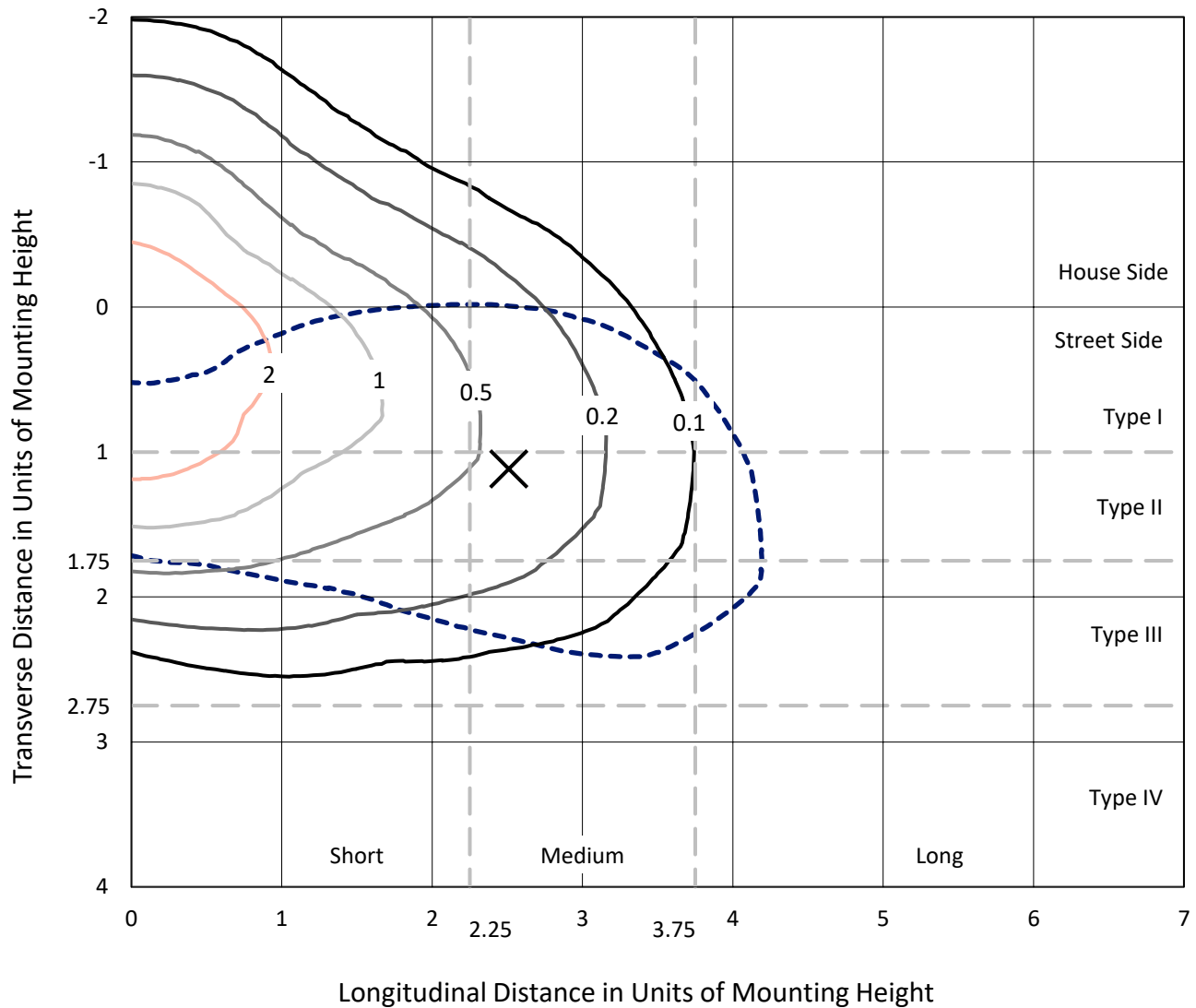


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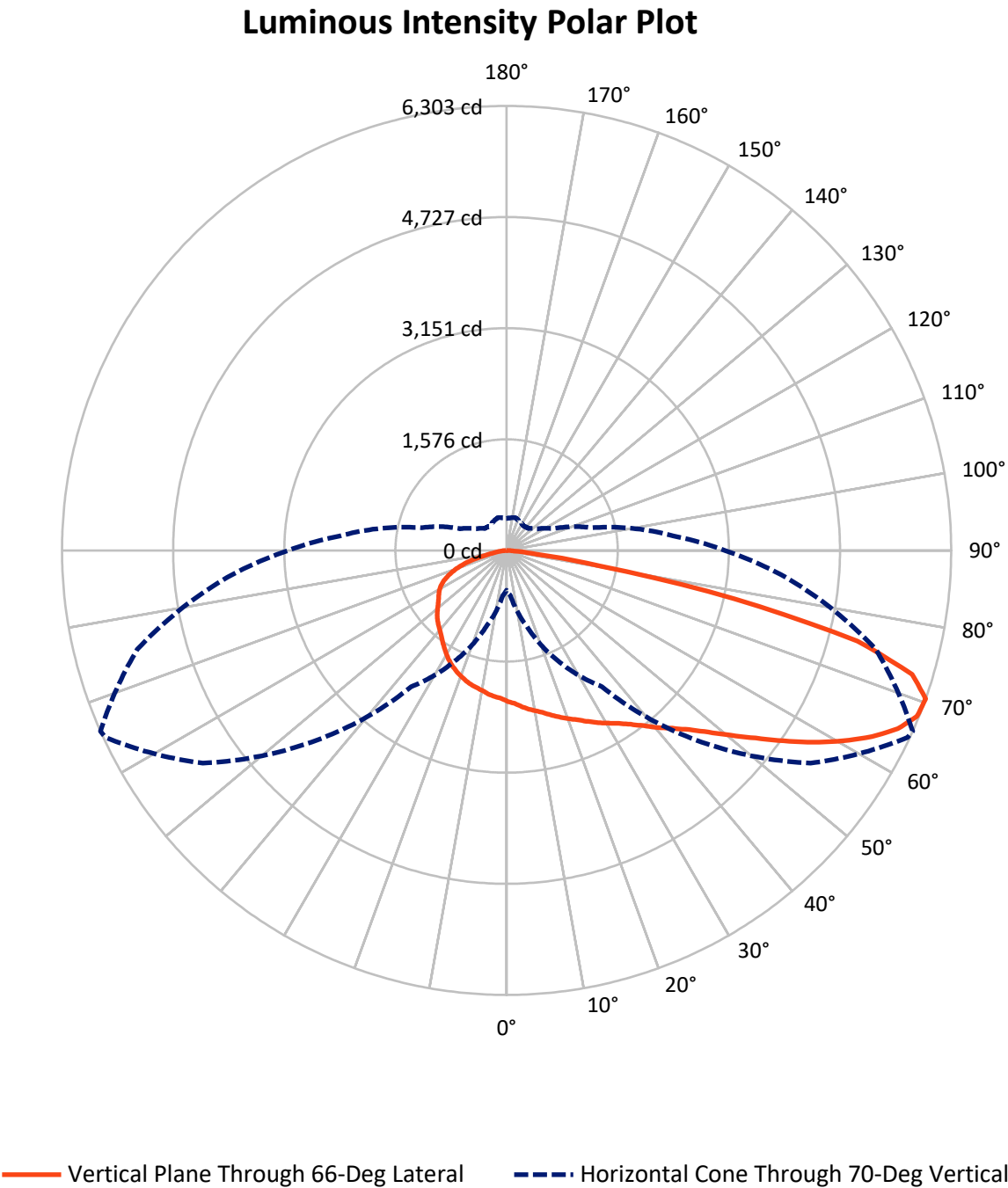
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Medium - N/A

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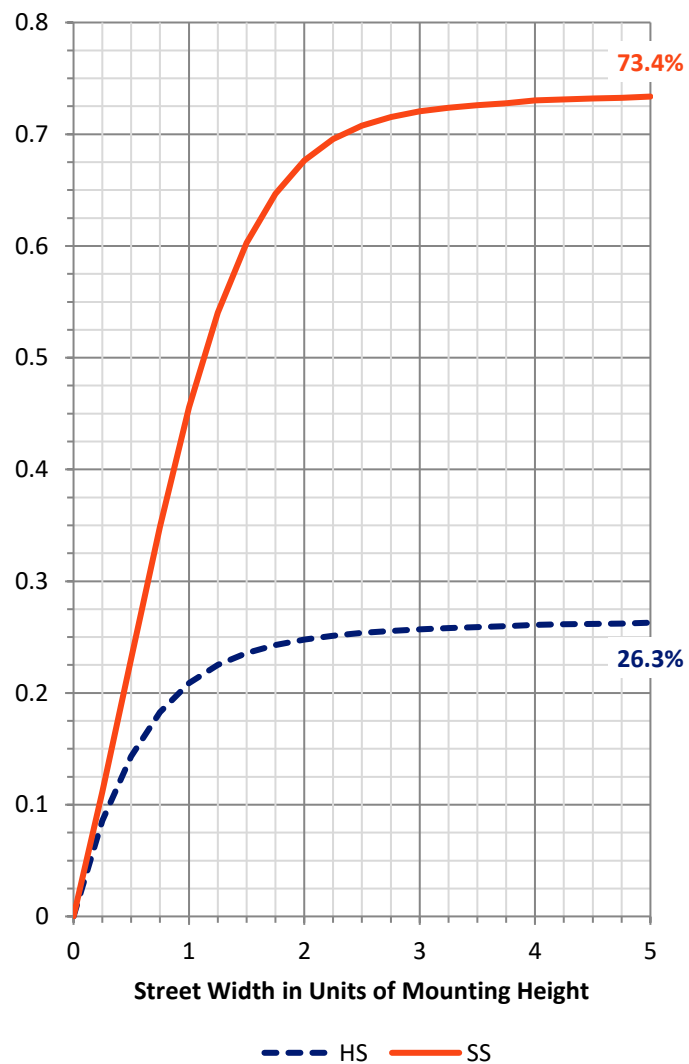
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.3	0.0	3145.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8724.7	0.0	8724.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	11870.0	0.0	11870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.7
10°-20°	617.5	5.2
20°-30°	1035.1	8.7
30°-40°	1549.9	13.1
40°-50°	2072.2	17.5
50°-60°	2419.3	20.4
60°-70°	2405.7	20.3
70°-80°	1424.2	12.0
80°-90°	140.4	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°	11870.0	100.0
0°-180°	11870.0	100.0

Coefficient of Utilization



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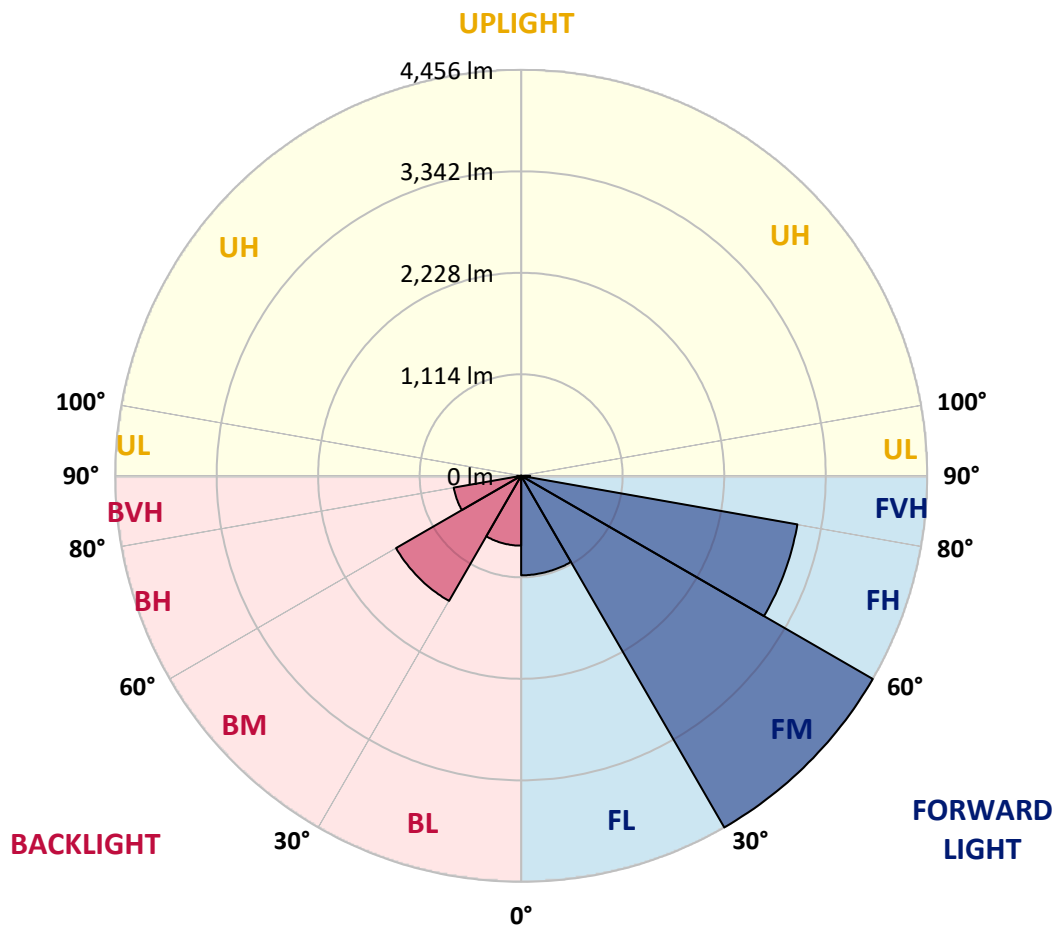
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.7	9.2			
FM	(30°-60°)	4455.8	37.5			
FH	(60°-80°)	3078.5	25.9			G2/5000
FVH	(80°-90°)	98.7	0.8			G1/100
BL	(0°-30°)	766.7	6.5	B2/1000		
BM	(30°-60°)	1585.5	13.4	B2/2500		
BH	(60°-80°)	751.3	6.3	B2/1000		G2/1000
BVH	(80°-90°)	41.7	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°	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3
2.5°	2221.0	2217.5	2215.8	2208.8	2193.0	2200.0	2184.3	2173.8	2172.0	2147.5	2133.5
5°	2312.0	2310.3	2306.8	2296.3	2271.8	2275.3	2249.0	2229.8	2224.5	2186.0	2156.3
7.5°	2389.0	2385.5	2383.8	2369.8	2343.5	2341.8	2310.3	2282.3	2273.5	2221.0	2175.5
10°	2448.6	2443.3	2446.8	2432.8	2404.8	2399.5	2359.3	2322.5	2313.8	2247.3	2184.3
12.5°	2499.3	2495.8	2501.1	2488.8	2466.1	2460.8	2420.5	2373.3	2362.8	2285.8	2203.5
15°	2555.3	2543.1	2553.6	2548.3	2532.6	2530.8	2494.1	2441.6	2427.5	2334.8	2233.3
17.5°	2585.1	2578.1	2590.3	2592.1	2585.1	2597.3	2562.3	2499.3	2487.1	2380.3	2259.5
20°	2606.1	2595.6	2609.6	2620.1	2625.3	2649.8	2621.8	2560.6	2546.6	2424.0	2284.0
22.5°	2677.8	2655.1	2656.8	2663.8	2667.3	2702.3	2684.8	2625.3	2611.3	2478.3	2313.8
25°	2858.1	2812.6	2782.8	2761.8	2737.3	2767.1	2756.6	2698.8	2686.6	2543.1	2350.5
27.5°	3138.1	3080.4	3020.9	2959.6	2863.4	2851.1	2833.6	2781.1	2767.1	2607.8	2387.3
30°	3456.7	3398.9	3328.9	3230.9	3050.6	2956.1	2915.9	2858.1	2842.4	2665.6	2422.3
32.5°	3773.5	3722.7	3652.7	3533.7	3276.4	3083.9	2998.1	2938.6	2922.9	2728.6	2464.3
35°	4020.2	3988.7	3943.2	3794.5	3500.4	3234.4	3117.1	3045.4	3027.9	2828.3	2541.3
37.5°	4219.8	4197.0	4158.5	4002.7	3663.2	3384.9	3253.7	3171.4	3152.1	2936.9	2623.6
40°	4513.8	4454.3	4422.8	4197.0	3805.0	3521.4	3407.7	3321.9	3300.9	3052.4	2690.1
42.5°	4764.1	4720.3	4681.8	4370.3	3939.7	3638.7	3552.9	3474.2	3446.2	3166.1	2761.8
45°	4806.1	4823.6	4804.3	4456.1	4153.3	3754.2	3700.0	3649.2	3622.9	3320.2	2870.4
47.5°	4807.8	4807.8	4694.1	4505.1	4417.5	3883.7	3857.5	3875.0	3847.0	3516.2	2999.9
50°	4681.8	4704.6	4645.1	4517.3	4487.6	4013.2	4050.0	4144.5	4116.5	3724.5	3139.9
52.5°	4421.0	4496.3	4494.6	4498.1	4386.0	4123.5	4253.0	4468.3	4421.0	3959.0	3288.7
55°	3960.7	4111.3	4246.0	4361.5	4298.5	4190.0	4501.6	4813.1	4764.1	4221.5	3439.2
57.5°	3566.9	3663.2	3831.2	4158.5	4195.3	4247.8	4734.3	5173.6	5129.9	4512.1	3596.7
60°	3117.1	3250.2	3418.2	3883.7	4069.3	4323.0	4989.9	5525.4	5483.4	4806.1	3749.0
62.5°	2425.8	2597.3	2933.4	3461.9	3885.5	4370.3	5191.1	5835.2	5816.0	5084.4	3885.5
65°	1690.7	1843.0	2313.8	2943.9	3593.2	4349.3	5352.2	6111.8	6094.3	5311.9	3981.7
67.5°	987.1	1163.9	1696.0	2369.8	3076.9	4204.0	5404.7	6274.5	6274.5	5450.2	4008.0
70°	563.6	645.8	1118.4	1727.5	2359.3	3803.2	5257.6	6272.8	6302.5	5418.7	3899.5
72.5°	393.8	430.6	752.6	1162.1	1599.7	3076.9	4872.6	5970.0	6010.2	5121.1	3528.4
75°	306.3	332.5	530.3	792.8	1008.1	2089.8	4030.7	5033.6	5140.4	4365.0	2852.9
77.5°	232.8	252.0	309.8	495.3	645.8	1200.6	2660.3	3300.9	3307.9	2672.6	1529.7
80°	169.8	189.0	206.5	302.8	343.0	561.8	1004.6	1379.2	1340.7	1293.4	827.9
82.5°	101.5	120.8	126.0	164.5	168.0	239.8	351.8	444.6	427.1	568.8	388.5
85°	43.8	61.3	64.8	75.3	71.8	98.0	140.0	117.3	105.0	120.8	84.0
87.5°	10.5	17.5	17.5	19.3	15.8	24.5	26.3	19.3	17.5	21.0	21.0
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°	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3	2142.3
2.5°	2130.0	2124.8	2126.5	2096.8	2088.0	2079.3	2074.0	2070.5	2067.0	2072.3	2077.5
5°	2145.8	2133.5	2119.5	2075.8	2058.3	2039.0	2025.0	2012.7	2007.5	2007.5	2012.7
7.5°	2158.0	2137.0	2107.3	2049.5	2018.0	1991.7	1969.0	1953.2	1944.5	1944.5	1949.7
10°	2159.8	2130.0	2082.8	2012.7	1970.7	1932.2	1906.0	1888.5	1876.2	1876.2	1879.7
12.5°	2170.3	2130.0	2068.8	1984.7	1932.2	1885.0	1853.5	1827.2	1822.0	1822.0	1825.5
15°	2187.8	2138.8	2060.0	1960.2	1897.2	1843.0	1808.0	1780.0	1769.5	1776.5	1778.2
17.5°	2203.5	2144.0	2044.3	1928.7	1853.5	1794.0	1755.5	1731.0	1717.0	1732.7	1732.7
20°	2214.0	2144.0	2021.5	1888.5	1806.2	1739.7	1703.0	1673.2	1662.7	1682.0	1683.7
22.5°	2229.8	2142.3	1997.0	1848.2	1755.5	1685.5	1648.7	1626.0	1620.7	1641.7	1648.7
25°	2247.3	2145.8	1970.7	1802.7	1699.5	1631.2	1603.2	1592.7	1596.2	1622.5	1631.2
27.5°	2266.5	2152.8	1944.5	1752.0	1638.2	1576.9	1561.2	1566.4	1580.4	1613.7	1624.2
30°	2284.0	2154.5	1907.7	1692.5	1568.2	1510.4	1517.4	1540.2	1561.2	1594.4	1606.7
32.5°	2306.8	2156.3	1869.2	1627.7	1492.9	1450.9	1482.4	1519.2	1540.2	1571.7	1585.7
35°	2362.8	2186.0	1839.5	1564.7	1422.9	1400.2	1452.7	1499.9	1512.2	1540.2	1552.4
37.5°	2427.5	2235.0	1823.7	1499.9	1354.7	1349.4	1415.9	1463.2	1466.7	1484.2	1496.4
40°	2467.8	2256.0	1806.2	1445.7	1293.4	1296.9	1365.2	1401.9	1394.9	1407.2	1415.9
42.5°	2508.1	2263.0	1769.5	1400.2	1235.7	1239.2	1291.7	1317.9	1321.4	1347.7	1359.9
45°	2576.3	2282.3	1729.2	1358.2	1183.1	1170.9	1202.4	1237.4	1282.9	1333.7	1347.7
47.5°	2667.3	2322.5	1687.2	1307.4	1132.4	1092.1	1104.4	1165.6	1212.9	1260.2	1268.9
50°	2760.1	2362.8	1648.7	1246.2	1081.6	1008.1	1013.4	1069.4	1107.9	1144.6	1149.9
52.5°	2851.1	2397.8	1615.4	1188.4	1023.9	908.4	929.4	987.1	1013.4	1030.9	1036.1
55°	2942.1	2427.5	1585.7	1139.4	957.4	829.6	848.9	903.1	929.4	938.1	941.6
57.5°	3036.6	2462.6	1562.9	1097.4	882.1	759.6	771.8	810.4	834.9	845.4	841.9
60°	3115.4	2492.3	1550.7	1053.6	806.8	694.8	691.3	726.3	761.3	771.8	768.3
62.5°	3176.6	2511.6	1531.4	997.6	740.3	630.1	612.6	658.1	694.8	701.8	707.1
65°	3209.9	2513.3	1484.2	925.9	672.1	560.1	547.8	593.3	616.1	623.1	623.1
67.5°	3204.6	2485.3	1391.4	829.6	609.1	497.1	486.6	514.6	547.8	553.1	547.8
70°	3096.1	2369.8	1242.7	728.1	533.8	441.1	421.8	449.8	481.3	462.1	453.3
72.5°	2788.1	2070.5	1023.9	616.1	449.8	371.0	362.3	390.3	392.0	395.5	386.8
75°	2200.0	1541.9	766.6	479.6	364.0	311.5	309.8	304.5	311.5	325.5	315.0
77.5°	1155.1	770.1	414.8	294.0	264.3	250.3	238.0	236.3	257.3	266.0	255.5
80°	626.6	432.3	238.0	176.8	161.0	162.8	178.5	175.0	197.8	203.0	194.3
82.5°	273.0	204.8	117.3	106.8	106.8	105.0	110.3	122.5	147.0	147.0	117.3
85°	59.5	50.8	45.5	52.5	59.5	59.5	59.5	59.5	42.0	22.8	15.8
87.5°	19.3	19.3	19.3	21.0	22.8	22.8	19.3	14.0	8.8	1.8	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)