

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: P836741

Luminaire Tested: **ARCH3-70-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10442 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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

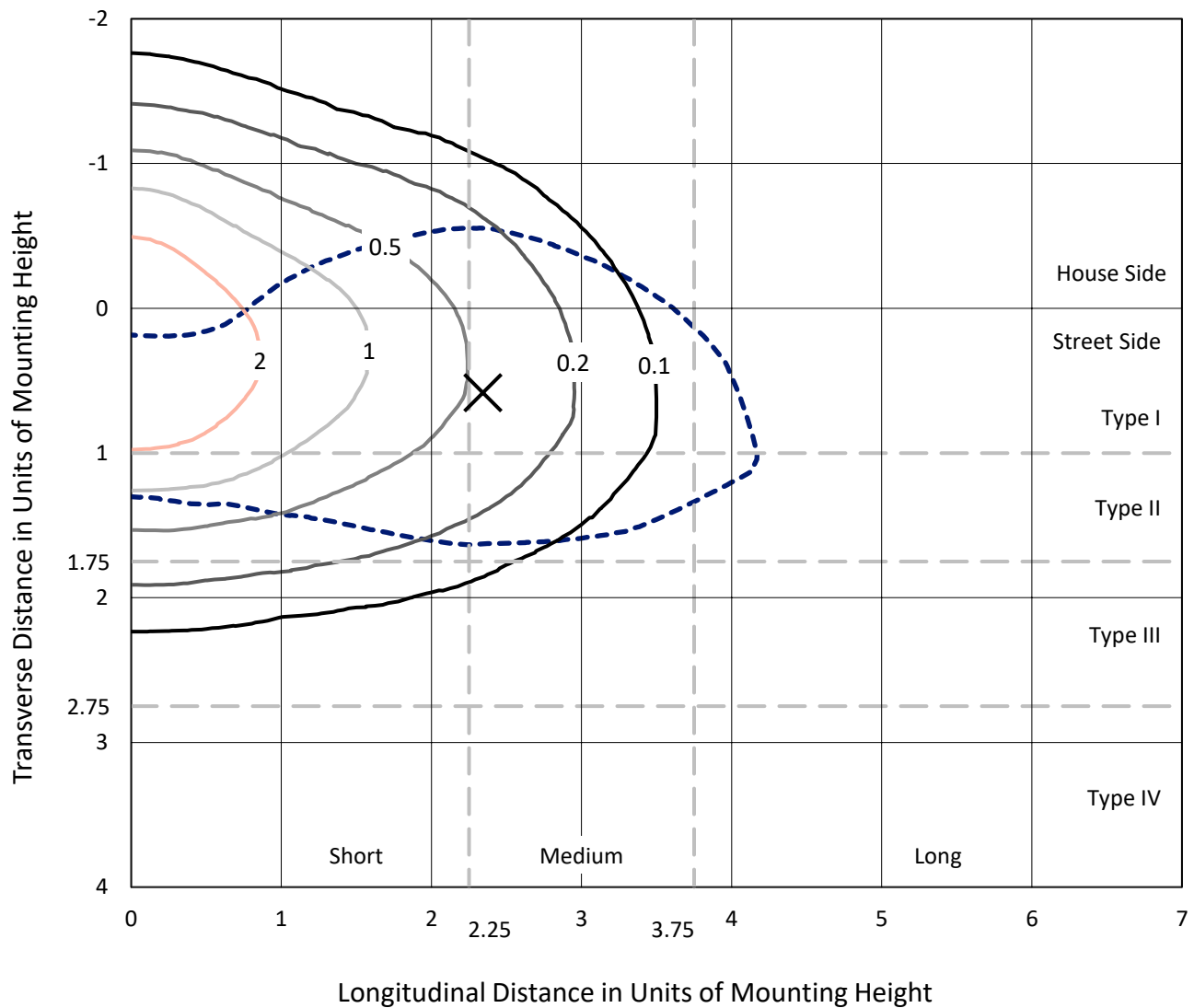


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Iso-Footcandle Lines of Horizontal Illumination

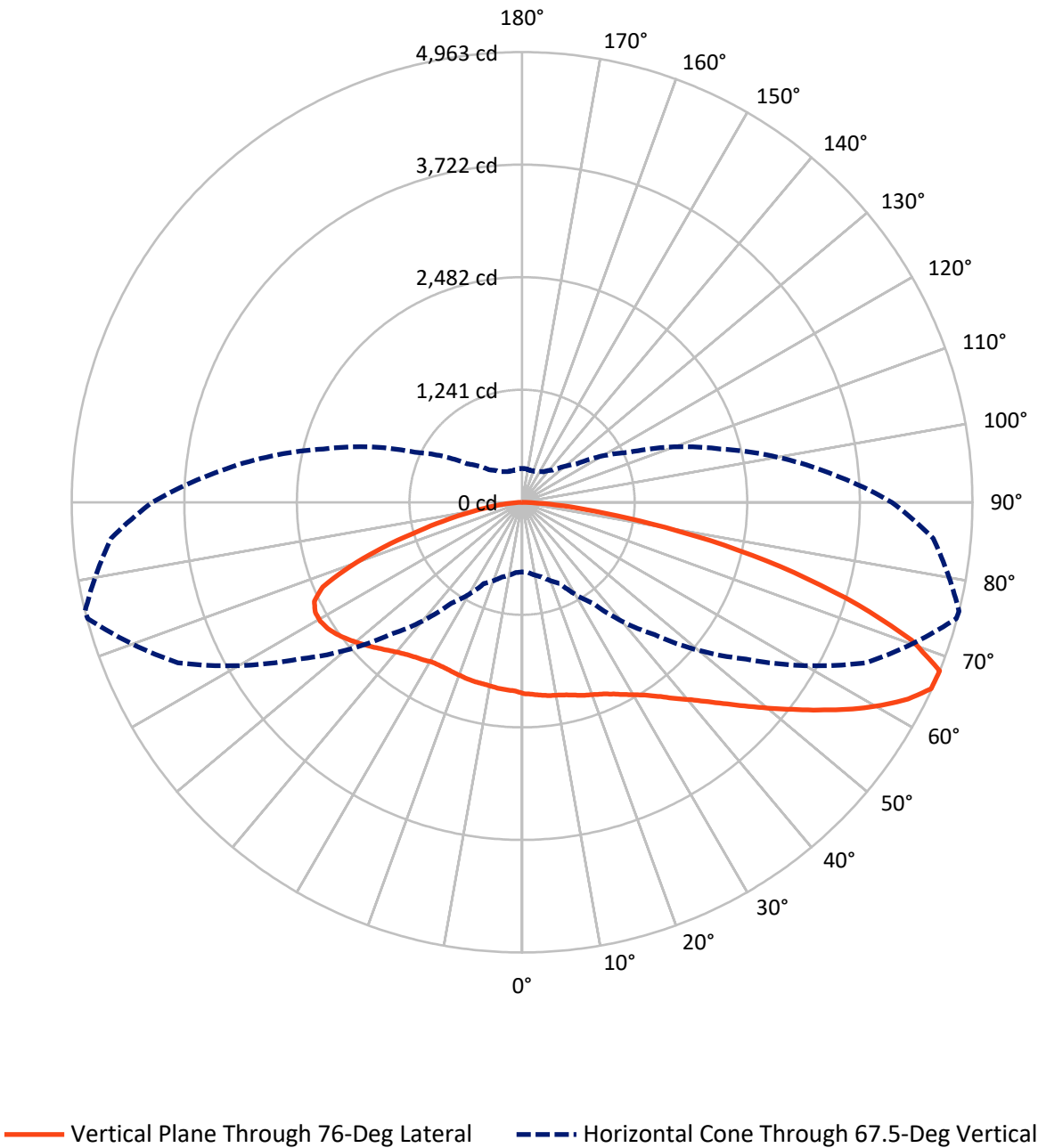
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3528.4	0.0	3528.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6913.6	0.0	6913.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	10442.0	0.0	10442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.9
10°-20°	621.8	6.0
20°-30°	1056.5	10.1
30°-40°	1503.2	14.4
40°-50°	1898.5	18.2
50°-60°	2055.5	19.7
60°-70°	1911.8	18.3
70°-80°	1026.8	9.8
80°-90°	164.5	1.6
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°	10442.0	100.0
0°-180°	10442.0	100.0

Coefficient of Utilization



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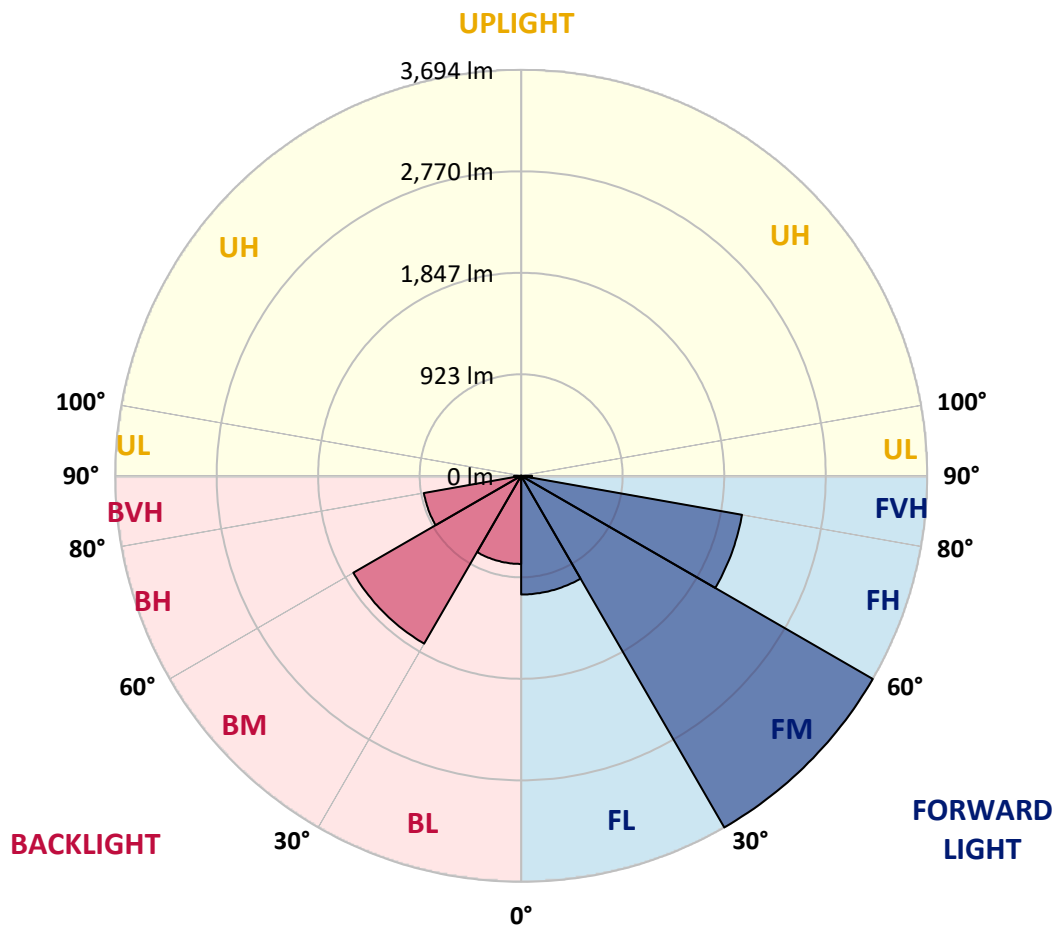
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.8	10.3			
FM	(30°-60°)	3694.0	35.4			
FH	(60°-80°)	2040.3	19.5			G2/5000
FVH	(80°-90°)	99.5	1.0			G1/100
BL	(0°-30°)	801.8	7.7	B2/1000		
BM	(30°-60°)	1763.2	16.9	B2/2500		
BH	(60°-80°)	898.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	65.0	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3
2.5°	2173.2	2169.4	2153.9	2155.8	2155.8	2153.9	2130.6	2120.9	2120.9	2119.0	2097.6
5°	2250.8	2245.0	2227.5	2223.6	2215.9	2206.2	2169.4	2148.0	2138.3	2136.4	2107.3
7.5°	2341.9	2334.1	2312.8	2301.2	2281.8	2256.6	2210.1	2177.1	2153.9	2151.9	2111.2
10°	2433.0	2425.3	2400.1	2378.7	2351.6	2310.9	2250.8	2202.3	2165.5	2161.6	2113.1
12.5°	2541.6	2533.8	2502.8	2475.7	2435.0	2380.7	2301.2	2235.3	2184.9	2179.1	2119.0
15°	2656.0	2644.3	2613.3	2582.3	2531.9	2462.1	2367.1	2279.9	2215.9	2206.2	2136.4
17.5°	2751.0	2735.4	2710.2	2679.2	2623.0	2541.6	2433.0	2324.5	2245.0	2237.2	2153.9
20°	2832.4	2820.7	2793.6	2764.5	2704.4	2615.3	2495.1	2369.0	2272.1	2262.4	2167.4
22.5°	2909.9	2894.4	2878.9	2857.6	2791.7	2692.8	2566.8	2423.3	2307.0	2295.4	2184.9
25°	2999.1	2981.7	2975.8	2964.2	2886.7	2785.9	2654.0	2491.2	2355.5	2341.9	2215.9
27.5°	3109.6	3090.2	3078.6	3078.6	2985.5	2880.8	2747.1	2570.7	2411.7	2400.1	2254.7
30°	3225.9	3202.7	3185.2	3185.2	3080.5	2975.8	2838.2	2650.1	2475.7	2462.1	2305.1
32.5°	3328.7	3305.4	3286.0	3284.1	3175.5	3070.8	2933.2	2737.4	2553.2	2535.8	2367.1
35°	3408.2	3386.8	3369.4	3373.3	3270.5	3167.8	3039.8	2853.7	2650.1	2630.8	2448.5
37.5°	3456.6	3448.9	3439.2	3452.8	3357.8	3260.8	3150.3	2966.1	2760.7	2743.2	2549.3
40°	3481.8	3476.0	3514.8	3532.2	3431.4	3344.2	3260.8	3082.5	2880.8	2861.5	2665.7
42.5°	3518.7	3567.1	3582.6	3578.8	3485.7	3408.2	3361.6	3208.5	3022.4	3004.9	2805.2
45°	3386.8	3375.2	3460.5	3507.0	3489.6	3448.9	3456.6	3359.7	3187.2	3169.7	2966.1
47.5°	3210.4	3194.9	3243.4	3357.8	3425.6	3464.4	3541.9	3516.7	3377.1	3361.6	3154.2
50°	2838.2	2859.5	3039.8	3193.0	3326.7	3460.5	3613.7	3685.4	3586.5	3571.0	3355.8
52.5°	2425.3	2446.6	2634.6	2987.5	3206.5	3431.4	3666.0	3854.1	3813.3	3795.9	3571.0
55°	2124.8	2171.3	2384.6	2640.5	3035.9	3340.3	3697.0	4026.6	4057.6	4042.1	3805.6
57.5°	1826.2	1861.1	2022.0	2248.8	2803.3	3181.3	3695.1	4187.5	4313.5	4298.0	4044.0
60°	1475.3	1519.9	1647.9	1892.1	2493.1	2991.4	3640.8	4313.5	4559.7	4548.1	4274.7
62.5°	1234.9	1248.5	1339.6	1550.9	2093.8	2751.0	3518.7	4381.4	4782.7	4774.9	4482.2
65°	994.5	996.5	1079.8	1256.3	1708.0	2452.4	3311.2	4356.2	4951.3	4955.2	4631.5
67.5°	767.7	777.4	853.0	986.8	1357.1	2064.7	3014.6	4185.6	4953.3	4963.0	4546.2
70°	531.2	538.9	653.3	783.2	1048.8	1645.9	2613.3	3733.9	4546.2	4553.9	4075.1
72.5°	374.2	378.0	500.2	626.2	820.1	1240.7	1971.6	3088.3	3875.4	3881.2	3427.5
75°	279.2	283.0	352.8	475.0	628.1	858.8	1347.4	2365.2	3096.0	3096.0	2706.4
77.5°	197.7	199.7	228.8	327.6	418.8	579.7	810.4	1549.0	2272.1	2276.0	1971.6
80°	133.8	135.7	149.3	221.0	261.7	314.1	440.1	812.3	1432.7	1438.5	1252.4
82.5°	69.8	73.7	83.4	112.4	131.8	174.5	226.8	412.9	792.9	808.4	752.2
85°	27.1	27.1	31.0	36.8	48.5	67.9	104.7	157.0	358.7	370.3	331.5
87.5°	9.7	9.7	11.6	11.6	13.6	15.5	17.4	23.3	40.7	40.7	38.8
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°	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3	2109.3
2.5°	2089.9	2089.9	2080.2	2084.1	2082.1	2078.2	2074.4	2080.2	2074.4	2060.8	2058.9
5°	2093.8	2089.9	2074.4	2072.4	2066.6	2058.9	2049.2	2053.0	2043.3	2031.7	2029.8
7.5°	2095.7	2087.9	2066.6	2058.9	2047.2	2031.7	2016.2	2016.2	2002.6	1991.0	1989.1
10°	2091.8	2082.1	2053.0	2037.5	2016.2	1992.9	1971.6	1965.8	1950.3	1936.7	1936.7
12.5°	2093.8	2080.2	2043.3	2018.1	1989.1	1960.0	1932.8	1925.1	1911.5	1897.9	1896.0
15°	2105.4	2086.0	2039.5	2006.5	1963.9	1930.9	1901.8	1896.0	1884.4	1874.7	1874.7
17.5°	2117.0	2091.8	2033.7	1987.1	1934.8	1897.9	1870.8	1870.8	1863.1	1857.2	1857.2
20°	2122.8	2093.8	2022.0	1960.0	1899.9	1861.1	1835.9	1839.8	1837.8	1835.9	1835.9
22.5°	2136.4	2097.6	2012.3	1934.8	1863.1	1822.3	1799.1	1804.9	1803.0	1803.0	1804.9
25°	2157.7	2107.3	2004.6	1911.5	1828.2	1783.6	1758.4	1762.2	1762.2	1762.2	1762.2
27.5°	2186.8	2126.7	2002.6	1890.2	1793.3	1742.9	1711.8	1711.8	1704.1	1706.0	1708.0
30°	2231.4	2163.5	2006.5	1870.8	1756.4	1692.4	1655.6	1649.8	1647.9	1651.7	1653.7
32.5°	2285.7	2213.9	2029.8	1857.2	1717.7	1636.2	1589.7	1587.8	1581.9	1581.9	1581.9
35°	2353.5	2262.4	2051.1	1855.3	1678.9	1576.1	1525.7	1519.9	1506.3	1500.5	1500.5
37.5°	2440.8	2338.0	2076.3	1841.7	1645.9	1518.0	1457.9	1438.5	1423.0	1421.0	1421.0
40°	2547.4	2423.3	2113.1	1826.2	1611.0	1457.9	1378.4	1345.4	1347.4	1355.1	1355.1
42.5°	2673.4	2528.0	2159.7	1818.5	1560.6	1395.8	1285.3	1246.6	1260.1	1267.9	1269.8
45°	2820.7	2652.1	2212.0	1808.8	1514.1	1326.0	1186.5	1138.0	1143.8	1145.7	1147.7
47.5°	2991.4	2789.7	2266.3	1801.0	1461.7	1238.8	1077.9	1013.9	1012.0	1000.3	1004.2
50°	3169.7	2935.1	2322.5	1787.4	1397.8	1136.1	963.5	887.9	872.4	854.9	856.9
52.5°	3359.7	3084.4	2374.9	1766.1	1318.3	1031.4	854.9	773.5	742.5	723.1	727.0
55°	3569.1	3237.6	2425.3	1733.2	1234.9	926.7	758.0	674.7	635.9	620.4	622.3
57.5°	3761.0	3384.9	2462.1	1692.4	1143.8	831.7	672.7	591.3	566.1	564.1	566.1
60°	3947.1	3509.0	2477.6	1636.2	1050.8	744.4	593.2	531.2	513.7	523.4	525.4
62.5°	4104.1	3588.5	2469.9	1560.6	955.8	661.1	529.3	484.7	473.0	492.4	494.4
65°	4195.3	3613.7	2415.6	1452.1	853.0	579.7	469.2	420.7	414.9	426.5	432.3
67.5°	4075.1	3456.6	2268.2	1302.8	738.6	504.1	411.0	372.2	362.5	372.2	372.2
70°	3611.7	2995.2	1919.3	1066.3	612.6	430.4	356.7	329.6	321.8	329.6	327.6
72.5°	3008.8	2491.2	1512.2	831.7	482.7	362.5	310.2	285.0	277.2	269.5	265.6
75°	2334.1	1892.1	1097.3	610.7	364.5	290.8	259.8	236.5	217.1	224.9	221.0
77.5°	1709.9	1328.0	777.4	422.6	261.7	224.9	203.6	186.1	172.5	188.0	186.1
80°	1101.2	858.8	519.6	283.0	180.3	157.0	149.3	139.6	153.2	199.7	203.6
82.5°	672.7	544.8	310.2	184.2	118.3	104.7	96.9	96.9	157.0	172.5	174.5
85°	300.5	288.9	168.7	95.0	65.9	60.1	54.3	69.8	64.0	46.5	48.5
87.5°	48.5	50.4	36.8	33.0	25.2	25.2	19.4	13.6	9.7	5.8	5.8
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)