

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: P399485

Luminaire Tested: **ARCH-L-PA3-150-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19914 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

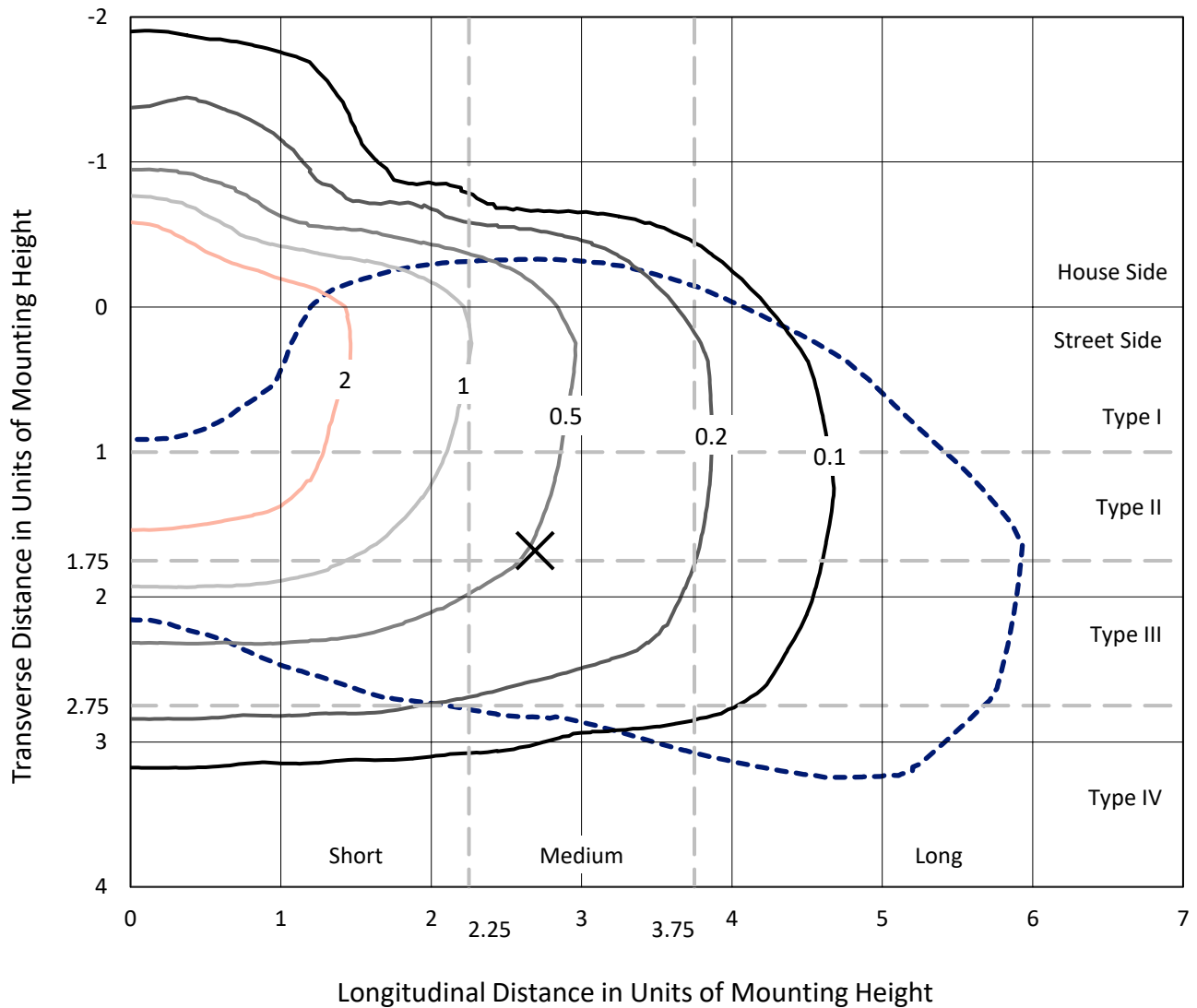
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

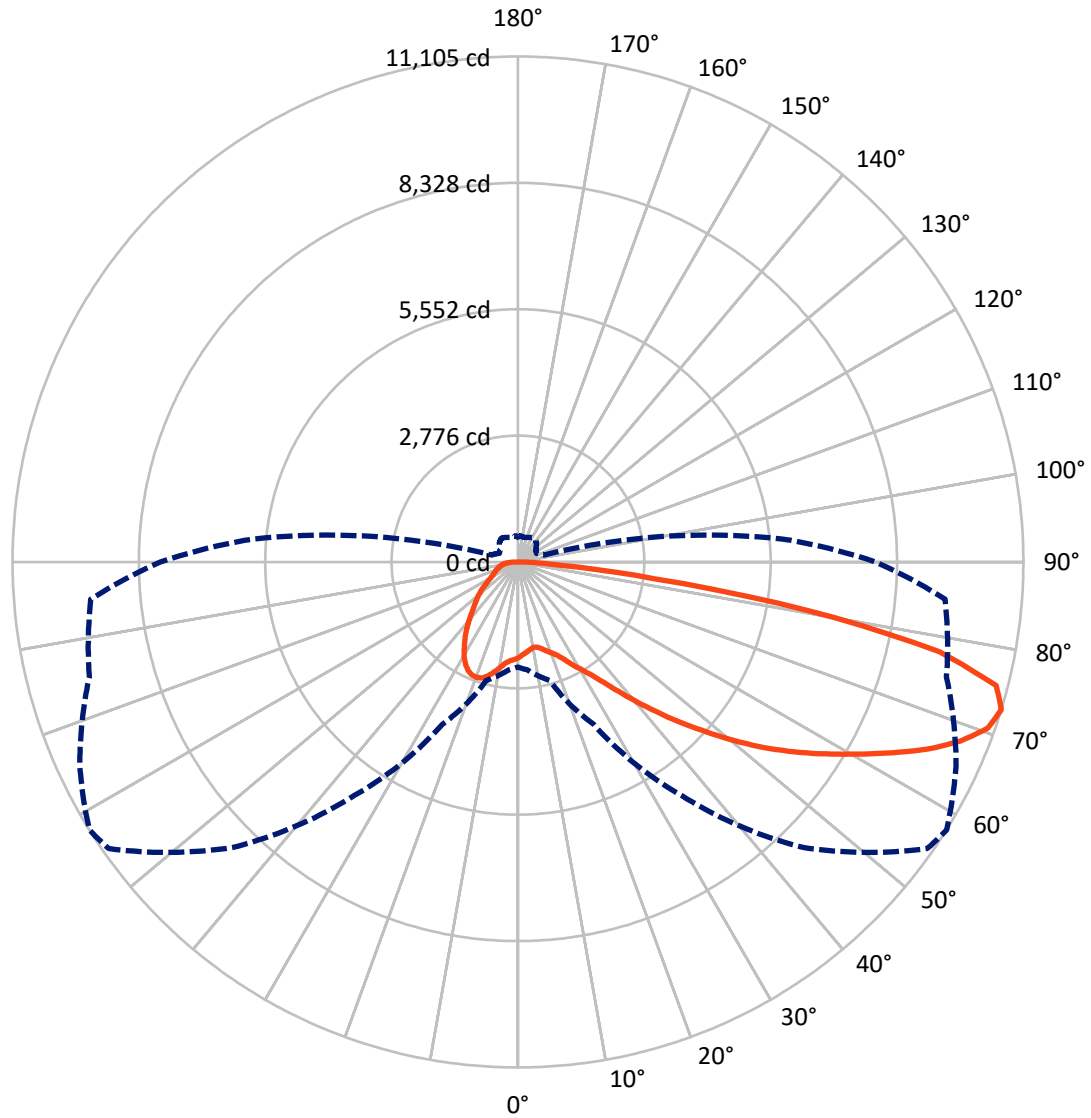
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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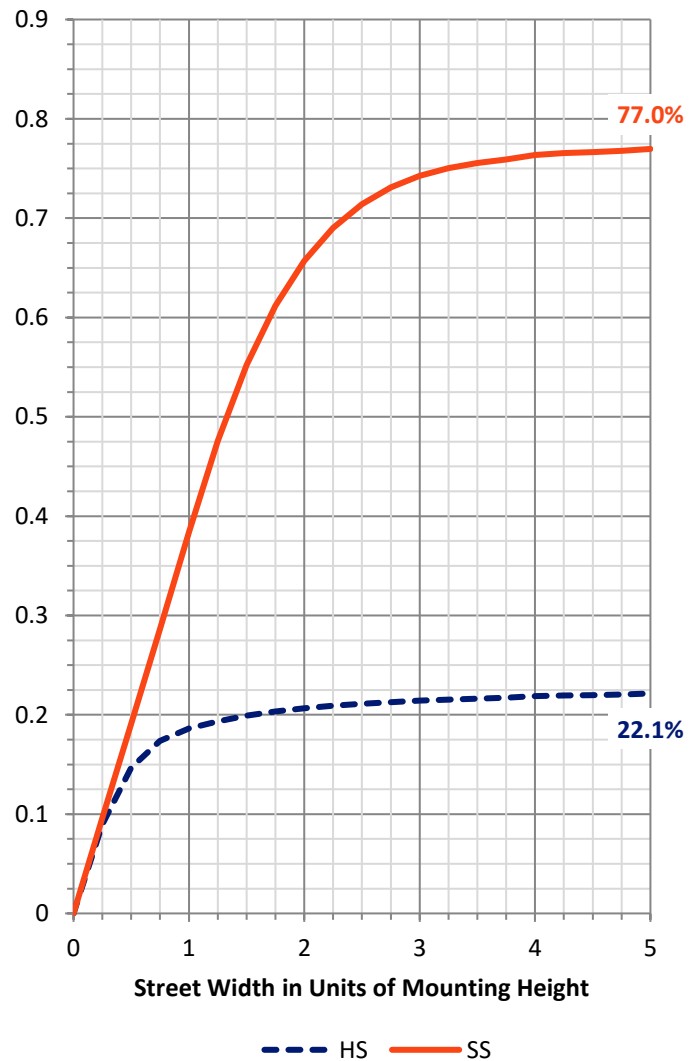
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4516.3	0.0	4516.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	15397.7	0.0	15397.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	19914.0	0.0	19914.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.0
10°-20°	642.6	3.2
20°-30°	1151.1	5.8
30°-40°	1731.6	8.7
40°-50°	2804.0	14.1
50°-60°	4221.0	21.2
60°-70°	4967.6	24.9
70°-80°	3522.5	17.7
80°-90°	671.2	3.4
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°	19914.0	100.0
0°-180°	19914.0	100.0



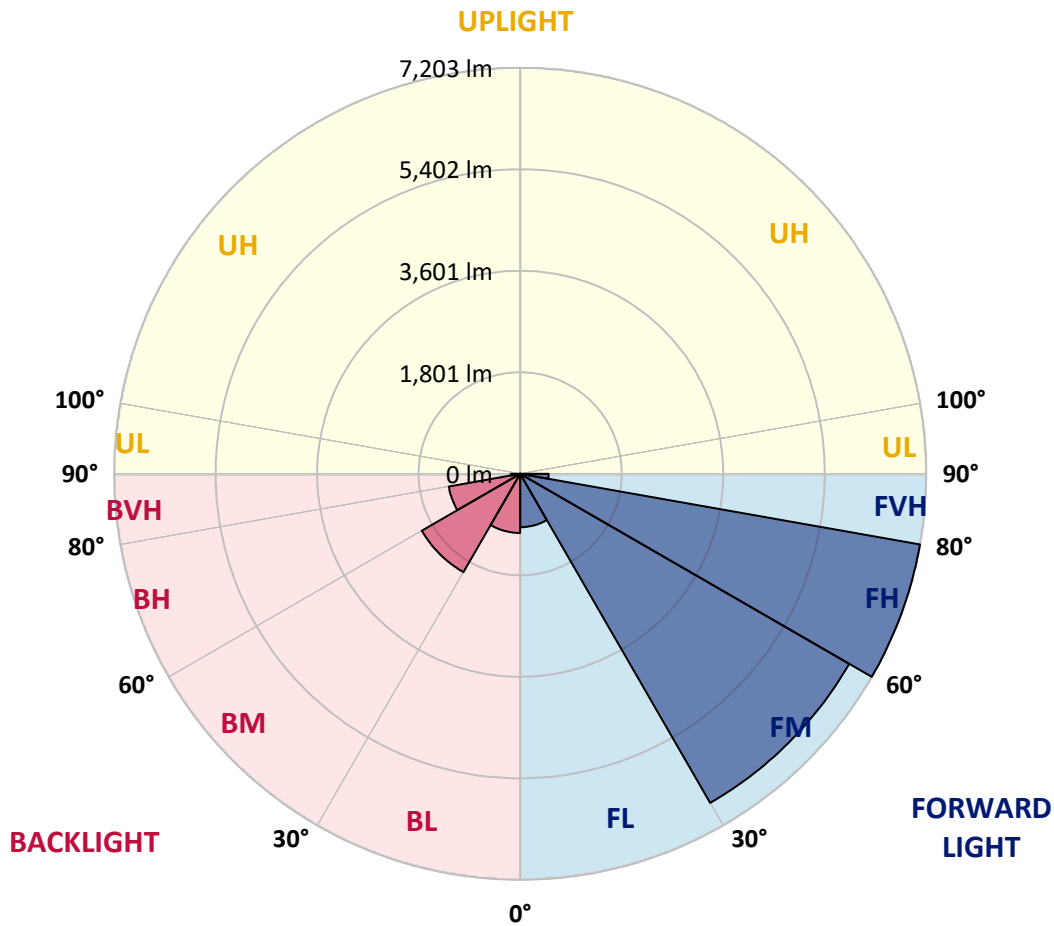
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.0	4.8			
FM (30°-60°)	6741.5	33.9			
FH (60°-80°)	7203.0	36.2			G3/7500
FVH (80°-90°)	506.3	2.5			G4/750
BL (0°-30°)	1049.0	5.3	B3/2500		
BM (30°-60°)	2015.1	10.1	B2/2500		
BH (60°-80°)	1287.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	164.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5
2.5°	2021.6	2011.1	2013.7	2013.7	2024.3	2029.5	2032.2	2040.0	2045.3	2058.4	2076.8
5°	1927.0	1919.1	1921.7	1924.4	1942.8	1961.2	1976.9	1987.5	2003.2	2024.3	2050.6
7.5°	1858.6	1853.4	1856.0	1861.3	1877.0	1898.1	1924.4	1940.1	1963.8	2003.2	2047.9
10°	1808.7	1808.7	1811.3	1821.8	1837.6	1863.9	1884.9	1903.3	1950.7	2021.6	2090.0
12.5°	1769.3	1769.3	1777.1	1798.2	1824.5	1850.8	1900.7	1921.7	1984.8	2082.1	2163.6
15°	1766.6	1769.3	1771.9	1790.3	1819.2	1877.0	1950.7	1982.2	2058.4	2174.1	2268.8
17.5°	1808.7	1811.3	1800.8	1806.1	1840.2	1921.7	2019.0	2055.8	2153.1	2279.3	2376.5
20°	1937.5	1937.5	1906.0	1877.0	1900.7	1990.1	2100.5	2137.3	2245.1	2384.4	2481.7
22.5°	2200.4	2213.5	2139.9	2076.8	2040.0	2090.0	2189.9	2229.3	2350.3	2500.1	2597.4
25°	2518.5	2531.6	2431.7	2342.4	2274.0	2266.1	2331.8	2373.9	2473.8	2628.9	2710.4
27.5°	2826.1	2802.4	2710.4	2626.3	2539.5	2468.6	2518.5	2555.3	2671.0	2789.3	2839.2
30°	3067.9	3049.5	2960.2	2899.7	2818.2	2726.2	2697.3	2736.7	2831.3	2941.8	2968.0
32.5°	3336.1	3322.9	3233.6	3154.7	3086.3	2999.6	2936.5	2954.9	3007.5	3086.3	3102.1
35°	3677.9	3706.8	3612.1	3451.8	3375.5	3291.4	3246.7	3252.0	3291.4	3341.4	3315.1
37.5°	4038.0	4072.2	4077.4	3825.1	3722.5	3646.3	3599.0	3617.4	3664.7	3698.9	3617.4
40°	4705.8	4671.6	4534.9	4348.2	4190.5	4116.9	4051.2	4048.5	4082.7	4143.2	3996.0
42.5°	5591.7	5560.2	5284.1	5042.3	4792.5	4708.4	4579.6	4524.4	4540.1	4616.4	4411.3
45°	6440.8	6427.7	6206.9	5925.6	5625.9	5462.9	5168.4	5034.4	5021.2	5081.7	4837.2
47.5°	7195.3	7137.5	6977.1	6758.9	6727.4	6301.5	5760.0	5578.6	5515.5	5549.6	5276.2
50°	8002.4	7805.3	7584.4	7450.3	7679.1	7282.1	6356.7	6167.4	6012.3	6036.0	5752.1
52.5°	8430.9	8099.7	7955.1	7994.5	8302.1	8149.6	7006.1	6774.7	6525.0	6559.1	6225.3
55°	8062.9	8060.3	8123.3	8367.8	8796.4	8620.2	7623.9	7363.6	7090.2	7098.1	6769.5
57.5°	7558.1	7660.7	7986.6	8525.6	9408.9	9114.5	8231.1	7955.1	7705.4	7665.9	7387.3
60°	7098.1	7211.1	7684.3	8499.3	9621.8	9566.6	8809.5	8567.6	8365.2	8249.5	8036.6
62.5°	6398.8	6482.9	7153.3	8331.0	9443.1	9892.6	9395.7	9230.1	9077.6	8838.4	8735.9
65°	5575.9	5604.8	6312.0	7776.3	9219.6	10018.8	9979.4	9905.8	9758.5	9406.3	9427.3
67.5°	4684.7	4742.6	5363.0	6890.4	8730.6	9961.0	10431.5	10492.0	10318.5	9790.1	9868.9
70°	3735.7	3806.7	4277.2	5665.3	7899.9	9711.2	10849.5	10946.8	10612.9	9916.3	9950.4
72.5°	2310.8	2379.2	2694.6	3935.5	6262.1	8872.6	10978.4	11104.5	10620.8	9748.0	9419.4
75°	799.2	807.1	1054.2	1887.6	3717.3	6698.5	10557.7	10854.8	10286.9	9135.5	8197.0
77.5°	365.4	378.6	467.9	778.2	1648.3	3614.8	8717.5	9461.5	9272.2	8178.6	6309.4
80°	252.4	257.6	323.4	465.3	951.7	1272.4	5502.3	6472.4	6803.6	6333.1	4043.3
82.5°	189.3	194.5	249.7	315.5	686.1	617.8	2095.2	3007.5	3738.3	3670.0	1690.4
85°	181.4	178.8	194.5	210.3	457.4	368.0	678.3	930.6	1459.0	1248.7	425.9
87.5°	78.9	86.8	199.8	118.3	239.2	170.9	294.4	344.4	444.3	386.5	152.5
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°	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5	2100.5
2.5°	2084.7	2090.0	2105.8	2129.4	2142.6	2168.9	2187.3	2197.8	2205.7	2208.3	2208.3
5°	2066.3	2076.8	2111.0	2150.5	2187.3	2242.5	2292.4	2321.3	2342.4	2350.3	2352.9
7.5°	2071.6	2097.9	2147.8	2205.7	2253.0	2324.0	2384.4	2442.3	2489.6	2508.0	2508.0
10°	2121.5	2158.3	2226.7	2302.9	2363.4	2437.0	2500.1	2550.0	2605.3	2636.8	2642.1
12.5°	2197.8	2242.5	2331.8	2416.0	2484.3	2542.2	2600.0	2636.8	2663.1	2686.8	2692.0
15°	2305.6	2360.8	2450.1	2536.9	2597.4	2634.2	2649.9	2649.9	2647.3	2649.9	2655.2
17.5°	2413.3	2465.9	2555.3	2642.1	2671.0	2649.9	2631.5	2626.3	2623.7	2618.4	2621.0
20°	2518.5	2568.5	2644.7	2710.4	2686.8	2613.1	2589.5	2586.9	2579.0	2573.7	2568.5
22.5°	2623.7	2660.5	2723.6	2747.2	2652.6	2547.4	2518.5	2502.7	2492.2	2479.1	2465.9
25°	2744.6	2755.1	2802.4	2765.6	2568.5	2426.5	2384.4	2360.8	2350.3	2337.1	2326.6
27.5°	2857.6	2857.6	2865.5	2736.7	2444.9	2266.1	2203.0	2161.0	2158.3	2155.7	2153.1
30°	2960.2	2947.0	2920.7	2649.9	2284.5	2069.0	1974.3	1932.3	1948.0	1961.2	1963.8
32.5°	3081.1	3054.8	2981.2	2531.6	2092.6	1848.1	1732.5	1714.1	1732.5	1748.2	1737.7
35°	3270.4	3223.1	3044.3	2394.9	1908.6	1645.7	1535.3	1509.0	1503.7	1501.1	1480.1
37.5°	3541.1	3459.7	3094.2	2247.7	1727.2	1466.9	1385.4	1330.2	1280.3	1227.7	1219.8
40°	3872.4	3733.1	3128.4	2079.5	1535.3	1317.1	1230.3	1159.4	1075.2	983.2	972.7
42.5°	4235.2	4027.5	3144.2	1892.8	1367.0	1193.5	1085.7	996.4	901.7	830.7	817.6
45°	4626.9	4345.6	3131.0	1714.1	1230.3	1088.4	967.4	870.2	793.9	744.0	733.5
47.5°	5008.1	4711.0	3094.2	1572.1	1125.2	999.0	875.4	786.0	728.2	673.0	659.9
50°	5497.1	5060.7	3049.5	1461.7	1009.5	909.6	817.6	723.0	657.2	630.9	625.7
52.5°	6038.6	5410.3	2997.0	1322.3	896.5	838.6	780.8	696.7	675.6	625.7	617.8
55°	6624.9	5825.7	2986.4	1146.2	796.6	788.7	744.0	720.3	725.6	625.7	612.5
57.5°	7242.7	6270.0	3010.1	970.1	715.1	744.0	759.8	741.4	733.5	638.8	612.5
60°	7886.7	6698.5	2939.1	807.1	652.0	707.2	778.2	730.8	673.0	633.6	615.2
62.5°	8512.4	7058.6	2631.5	691.4	604.7	696.7	767.6	691.4	625.7	625.7	617.8
65°	8967.2	7219.0	2058.4	607.3	573.1	683.5	749.2	665.1	612.5	630.9	620.4
67.5°	9019.8	7053.4	1382.8	541.6	546.8	659.9	707.2	641.5	599.4	646.7	630.9
70°	8696.5	6622.2	846.5	491.6	512.6	617.8	670.4	617.8	581.0	633.6	609.9
72.5°	7857.8	5817.8	596.8	449.5	475.8	578.4	636.2	596.8	554.7	573.1	549.4
75°	6446.1	4508.6	473.2	410.1	439.0	541.6	607.3	565.2	523.2	515.3	499.5
77.5°	4566.4	2889.2	381.2	378.6	399.6	496.9	567.8	528.4	486.3	470.6	460.1
80°	2626.3	1417.0	328.6	341.8	362.8	452.2	520.5	486.3	446.9	423.3	407.5
82.5°	1004.2	494.2	289.2	297.1	320.7	404.9	473.2	444.3	404.9	425.9	357.5
85°	326.0	270.8	236.6	244.5	268.1	336.5	418.0	394.3	349.6	310.2	286.6
87.5°	144.6	147.2	126.2	139.3	168.3	223.5	305.0	289.2	255.0	212.9	205.1
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)