

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: P399836

Luminaire Tested: **ARCH-L-PA3-200-722-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399836
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-PA3-200-722-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21331 lumens
Efficiency: N/A
Efficacy: 106.1 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

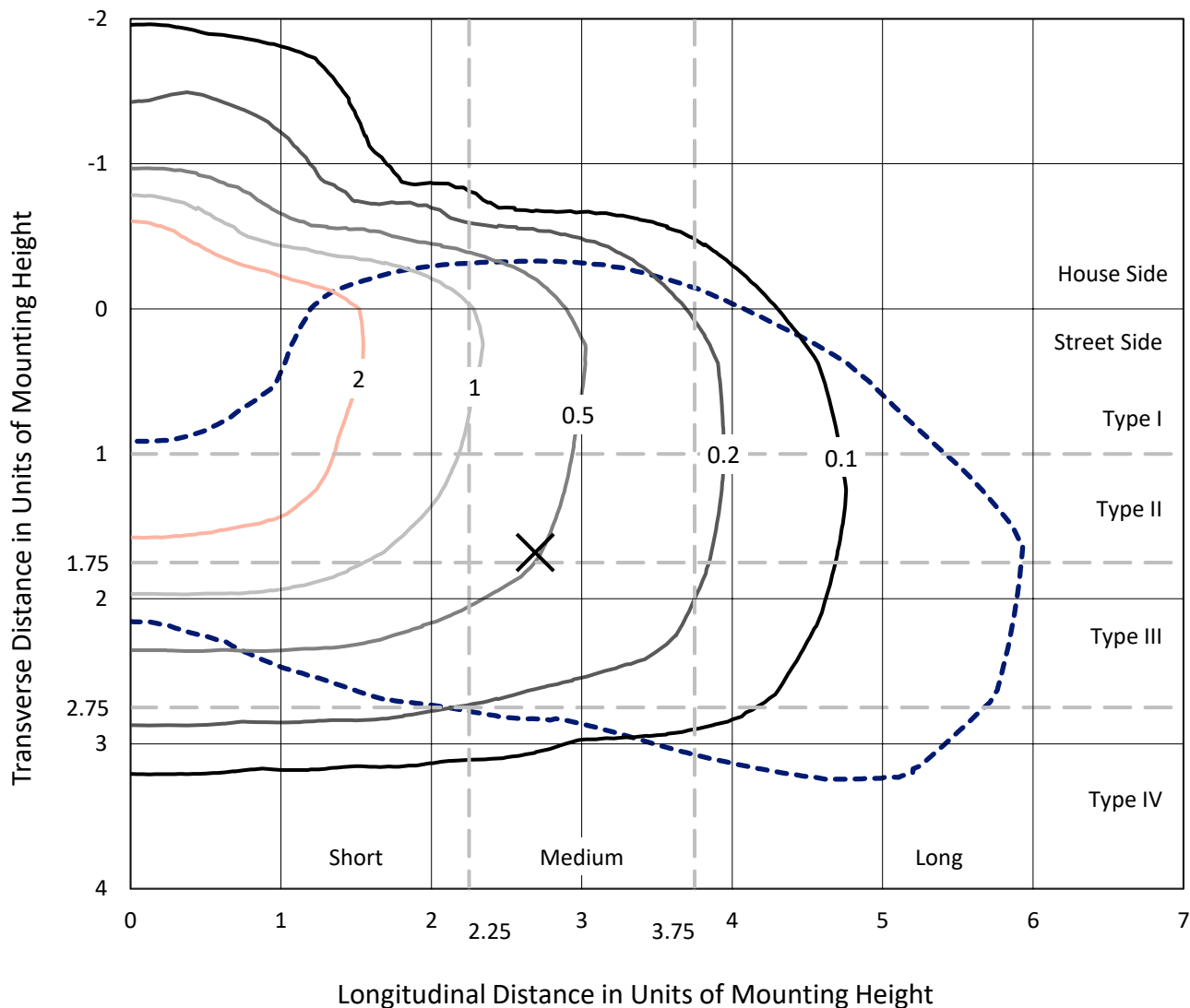
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

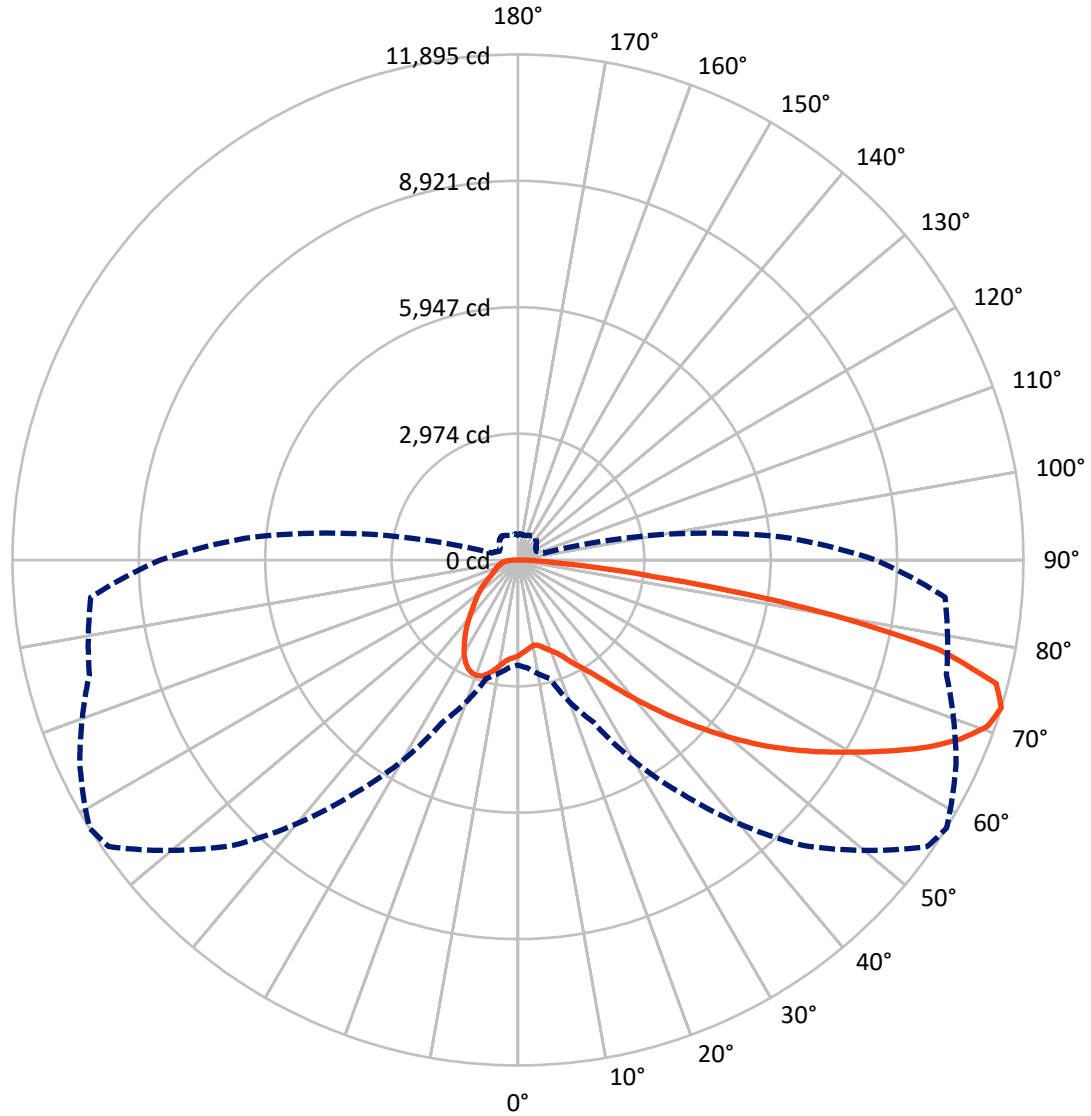
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399836
CATALOG NUMBER: ARCH-L-PA3-200-722-U-T3

Luminous Intensity Polar Plot



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

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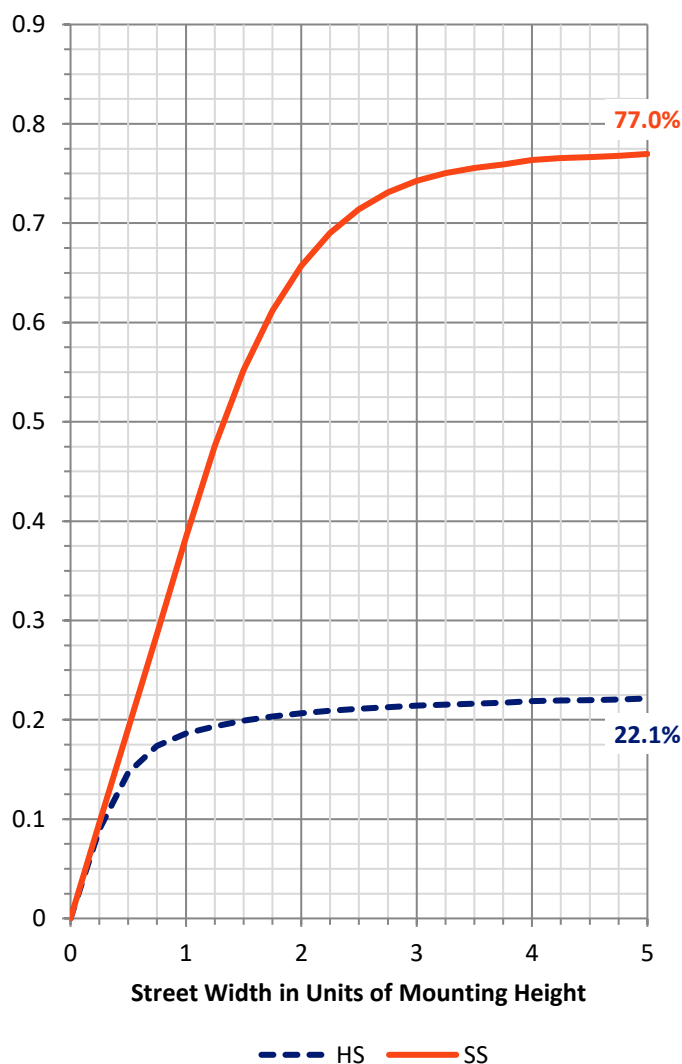
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4837.6	0.0	4837.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16493.4	0.0	16493.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	21331.0	0.0	21331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	1.0
10°-20°	688.3	3.2
20°-30°	1233.0	5.8
30°-40°	1854.8	8.7
40°-50°	3003.6	14.1
50°-60°	4521.3	21.2
60°-70°	5321.1	24.9
70°-80°	3773.2	17.7
80°-90°	719.0	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°	21331.0	100.0
0°-180°	21331.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399836

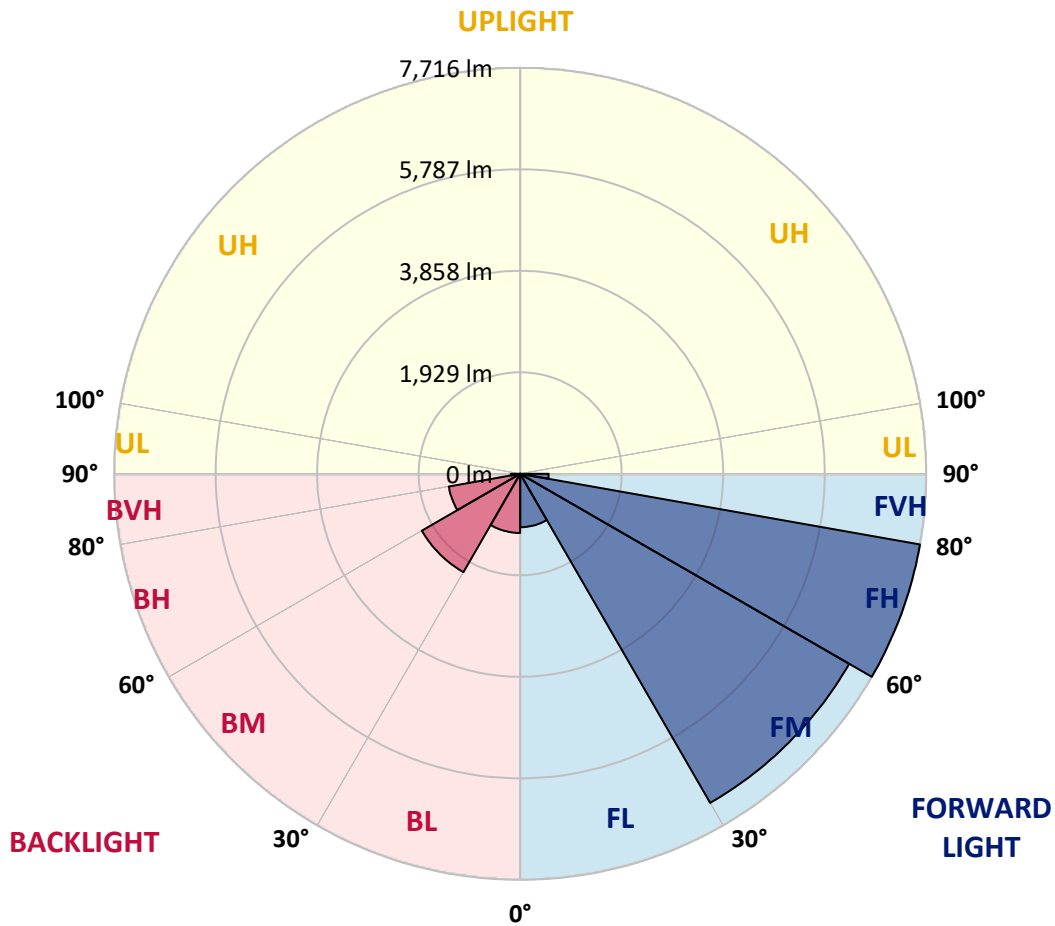
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.4	4.8			
FM (30°-60°)	7221.2	33.9			
FH (60°-80°)	7715.5	36.2			G4/12000
FVH (80°-90°)	542.3	2.5			G4/750
BL (0°-30°)	1123.7	5.3	B3/2500		
BM (30°-60°)	2158.5	10.1	B2/2500		
BH (60°-80°)	1378.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.7	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





REPORT NUMBER: P399836

CATALOG NUMBER: ARCH-L-PA3-200-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0
2.5°	2165.5	2154.2	2157.0	2157.0	2168.3	2173.9	2176.8	2185.2	2190.8	2204.9	2224.6
5°	2064.1	2055.7	2058.5	2061.3	2081.0	2100.7	2117.6	2128.9	2145.8	2168.3	2196.5
7.5°	1990.9	1985.3	1988.1	1993.7	2010.6	2033.1	2061.3	2078.2	2103.5	2145.8	2193.6
10°	1937.4	1937.4	1940.2	1951.5	1968.4	1996.5	2019.1	2038.8	2089.5	2165.5	2238.7
12.5°	1895.2	1895.2	1903.6	1926.1	1954.3	1982.4	2036.0	2058.5	2126.1	2230.3	2317.6
15°	1892.3	1895.2	1898.0	1917.7	1948.7	2010.6	2089.5	2123.2	2204.9	2328.8	2430.2
17.5°	1937.4	1940.2	1928.9	1934.6	1971.2	2058.5	2162.7	2202.1	2306.3	2441.5	2545.6
20°	2075.4	2075.4	2041.6	2010.6	2036.0	2131.7	2250.0	2289.4	2404.8	2554.1	2658.3
22.5°	2357.0	2371.1	2292.2	2224.6	2185.2	2238.7	2345.7	2387.9	2517.5	2678.0	2782.2
25°	2697.7	2711.8	2604.8	2509.0	2435.8	2427.4	2497.8	2542.8	2649.8	2816.0	2903.3
27.5°	3027.2	3001.8	2903.3	2813.2	2720.2	2644.2	2697.7	2737.1	2861.0	2987.8	3041.3
30°	3286.2	3266.5	3170.8	3106.0	3018.7	2920.2	2889.2	2931.4	3032.8	3151.1	3179.2
32.5°	3573.5	3559.4	3463.7	3379.2	3306.0	3213.0	3145.4	3165.2	3221.5	3306.0	3322.9
35°	3939.6	3970.5	3869.2	3697.4	3615.7	3525.6	3477.7	3483.4	3525.6	3579.1	3550.9
37.5°	4325.3	4362.0	4367.6	4097.2	3987.4	3905.8	3855.1	3874.8	3925.5	3962.1	3874.8
40°	5040.6	5004.0	4857.6	4657.6	4488.7	4409.8	4339.4	4336.6	4373.2	4438.0	4280.3
42.5°	5989.6	5955.8	5660.1	5401.0	5133.5	5043.4	4905.4	4846.3	4863.2	4944.9	4725.2
45°	6899.1	6885.1	6648.5	6347.2	6026.2	5851.6	5536.2	5392.6	5378.5	5443.3	5181.4
47.5°	7707.3	7645.4	7473.6	7239.9	7206.1	6749.9	6169.8	5975.5	5907.9	5944.5	5651.7
50°	8571.8	8360.6	8124.1	7980.5	8225.5	7800.3	6809.0	6606.3	6440.1	6465.5	6161.4
52.5°	9030.8	8676.0	8521.2	8563.4	8892.9	8729.5	7504.6	7256.8	6989.3	7025.9	6668.2
55°	8636.6	8633.8	8701.4	8963.3	9422.3	9233.6	8166.3	7887.6	7594.7	7603.1	7251.1
57.5°	8095.9	8205.8	8554.9	9132.2	10078.4	9763.0	8816.8	8521.2	8253.6	8211.4	7912.9
60°	7603.1	7724.2	8231.1	9104.1	10306.5	10247.3	9436.3	9177.3	8960.4	8836.5	8608.4
62.5°	6854.1	6944.2	7662.3	8923.8	10115.0	10596.5	10064.3	9886.9	9723.6	9467.3	9357.5
65°	5972.7	6003.7	6761.2	8329.7	9875.6	10731.7	10689.5	10610.6	10452.9	10075.6	10098.1
67.5°	5018.1	5080.0	5744.6	7380.7	9351.9	10669.7	11173.8	11238.6	11052.7	10486.7	10571.2
70°	4001.5	4077.5	4581.6	6068.4	8462.0	10402.2	11621.5	11725.7	11368.1	10621.9	10658.5
72.5°	2475.2	2548.5	2886.4	4215.5	6707.7	9503.9	11759.5	11894.7	11376.6	10441.6	10089.7
75°	856.1	864.5	1129.2	2021.9	3981.8	7175.1	11309.0	11627.2	11018.9	9785.5	8780.2
77.5°	391.4	405.5	501.2	833.5	1765.6	3872.0	9337.8	10134.7	9932.0	8760.5	6758.3
80°	270.3	276.0	346.4	498.4	1019.4	1362.9	5893.8	6932.9	7287.8	6783.7	4331.0
82.5°	202.8	208.4	267.5	337.9	735.0	661.8	2244.3	3221.5	4004.3	3931.1	1810.7
85°	194.3	191.5	208.4	225.3	490.0	394.2	726.5	996.9	1562.9	1337.6	456.2
87.5°	84.5	92.9	214.0	126.7	256.3	183.0	315.4	368.9	475.9	413.9	163.3
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: P399836
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0
2.5°	2233.1	2238.7	2255.6	2280.9	2295.0	2323.2	2342.9	2354.2	2362.6	2365.4	2365.4
5°	2213.4	2224.6	2261.2	2303.5	2342.9	2402.0	2455.5	2486.5	2509.0	2517.5	2520.3
7.5°	2219.0	2247.2	2300.7	2362.6	2413.3	2489.3	2554.1	2616.0	2666.7	2686.4	2686.4
10°	2272.5	2311.9	2385.1	2466.8	2531.6	2610.4	2678.0	2731.5	2790.6	2824.4	2830.1
12.5°	2354.2	2402.0	2497.8	2587.9	2661.1	2723.1	2785.0	2824.4	2852.6	2877.9	2883.6
15°	2469.6	2528.7	2624.5	2717.4	2782.2	2821.6	2838.5	2838.5	2835.7	2838.5	2844.1
17.5°	2585.1	2641.4	2737.1	2830.1	2861.0	2838.5	2818.8	2813.2	2810.3	2804.7	2807.5
20°	2697.7	2751.2	2832.9	2903.3	2877.9	2799.1	2773.7	2770.9	2762.5	2756.8	2751.2
22.5°	2810.3	2849.8	2917.4	2942.7	2841.3	2728.7	2697.7	2680.8	2669.5	2655.5	2641.4
25°	2939.9	2951.1	3001.8	2962.4	2751.2	2599.1	2554.1	2528.7	2517.5	2503.4	2492.1
27.5°	3061.0	3061.0	3069.4	2931.4	2618.9	2427.4	2359.8	2314.7	2311.9	2309.1	2306.3
30°	3170.8	3156.7	3128.6	2838.5	2447.1	2216.2	2114.8	2069.7	2086.6	2100.7	2103.5
32.5°	3300.3	3272.2	3193.3	2711.8	2241.5	1979.6	1855.7	1836.0	1855.7	1872.6	1861.4
35°	3503.1	3452.4	3260.9	2565.4	2044.4	1762.8	1644.5	1616.4	1610.7	1607.9	1585.4
37.5°	3793.1	3705.8	3314.4	2407.7	1850.1	1571.3	1484.0	1424.9	1371.4	1315.1	1306.6
40°	4147.9	3998.7	3351.0	2227.4	1644.5	1410.8	1317.9	1241.8	1151.7	1053.2	1041.9
42.5°	4536.5	4314.1	3367.9	2027.5	1464.3	1278.5	1163.0	1067.3	965.9	889.8	875.8
45°	4956.1	4654.8	3353.8	1836.0	1317.9	1165.8	1036.3	932.1	850.4	796.9	785.7
47.5°	5364.4	5046.2	3314.4	1684.0	1205.2	1070.1	937.7	842.0	780.0	720.9	706.8
50°	5888.2	5420.8	3266.5	1565.7	1081.3	974.3	875.8	774.4	704.0	675.8	670.2
52.5°	6468.3	5795.3	3210.2	1416.4	960.2	898.3	836.3	746.2	723.7	670.2	661.8
55°	7096.3	6240.2	3199.0	1227.8	853.2	844.8	796.9	771.6	777.2	670.2	656.1
57.5°	7758.0	6716.1	3224.3	1039.1	765.9	796.9	813.8	794.1	785.7	684.3	656.1
60°	8447.9	7175.1	3148.3	864.5	698.4	757.5	833.5	782.8	720.9	678.7	658.9
62.5°	9118.1	7560.9	2818.8	740.6	647.7	746.2	822.3	740.6	670.2	670.2	661.8
65°	9605.3	7732.7	2204.9	650.5	613.9	732.2	802.6	712.4	656.1	675.8	664.6
67.5°	9661.6	7555.3	1481.2	580.1	585.7	706.8	757.5	687.1	642.0	692.7	675.8
70°	9315.3	7093.5	906.7	526.6	549.1	661.8	718.1	661.8	622.3	678.7	653.3
72.5°	8417.0	6231.8	639.2	481.5	509.7	619.5	681.5	639.2	594.2	613.9	588.5
75°	6904.8	4829.4	506.9	439.3	470.3	580.1	650.5	605.4	560.4	551.9	535.0
77.5°	4891.4	3094.8	408.3	405.5	428.0	532.2	608.3	566.0	521.0	504.1	492.8
80°	2813.2	1517.8	352.0	366.1	388.6	484.3	557.6	521.0	478.7	453.4	436.5
82.5°	1075.7	529.4	309.8	318.2	343.5	433.7	506.9	475.9	433.7	456.2	383.0
85°	349.2	290.0	253.4	261.9	287.2	360.4	447.7	422.4	374.5	332.3	306.9
87.5°	154.9	157.7	135.2	149.2	180.2	239.4	326.7	309.8	273.1	228.1	219.6
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)