

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: P399359

Luminaire Tested: **ARCH-L-PA3-130-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399359
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-PA3-130-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21126 lumens
Efficiency: N/A
Efficacy: 158.8 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

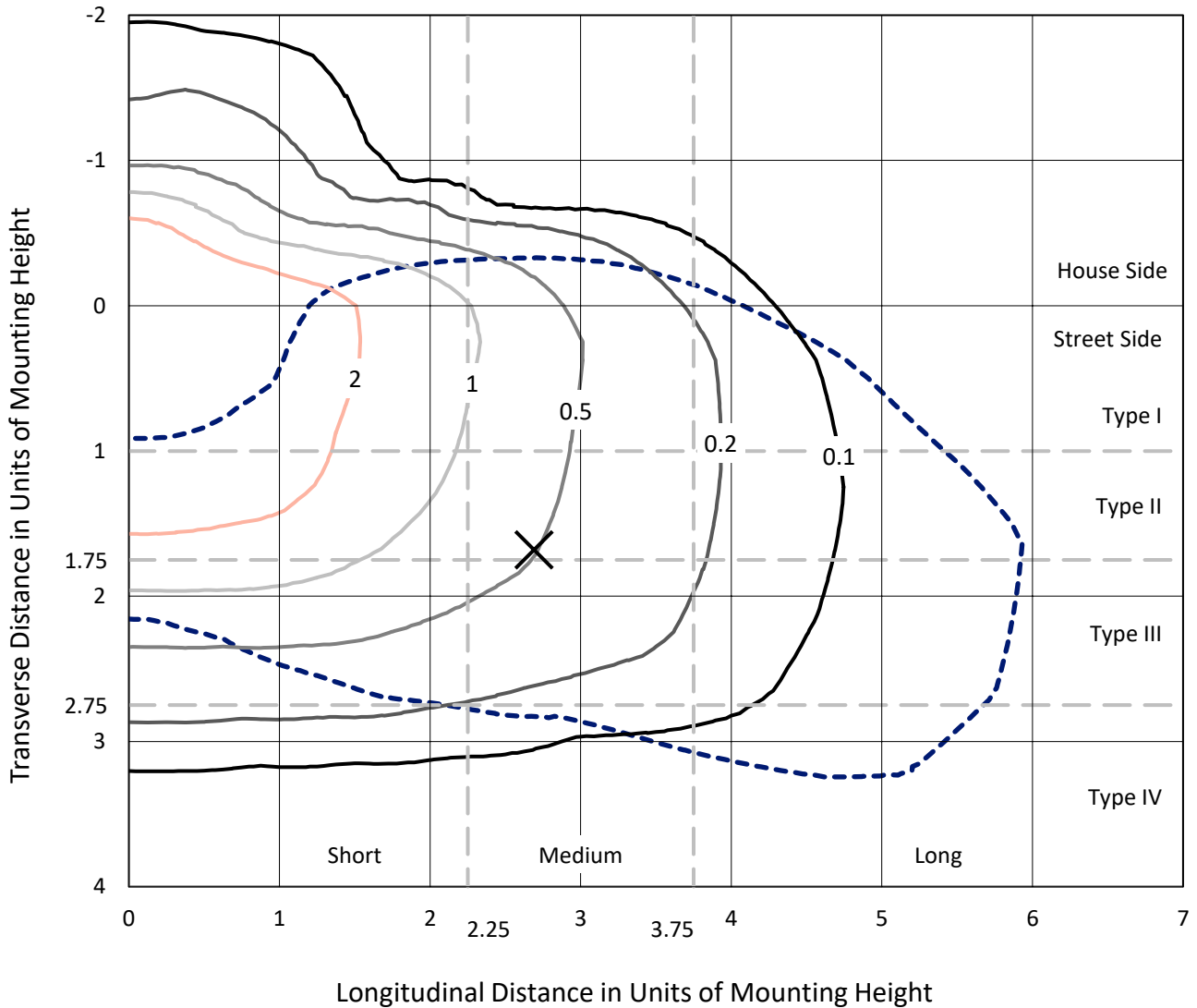
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

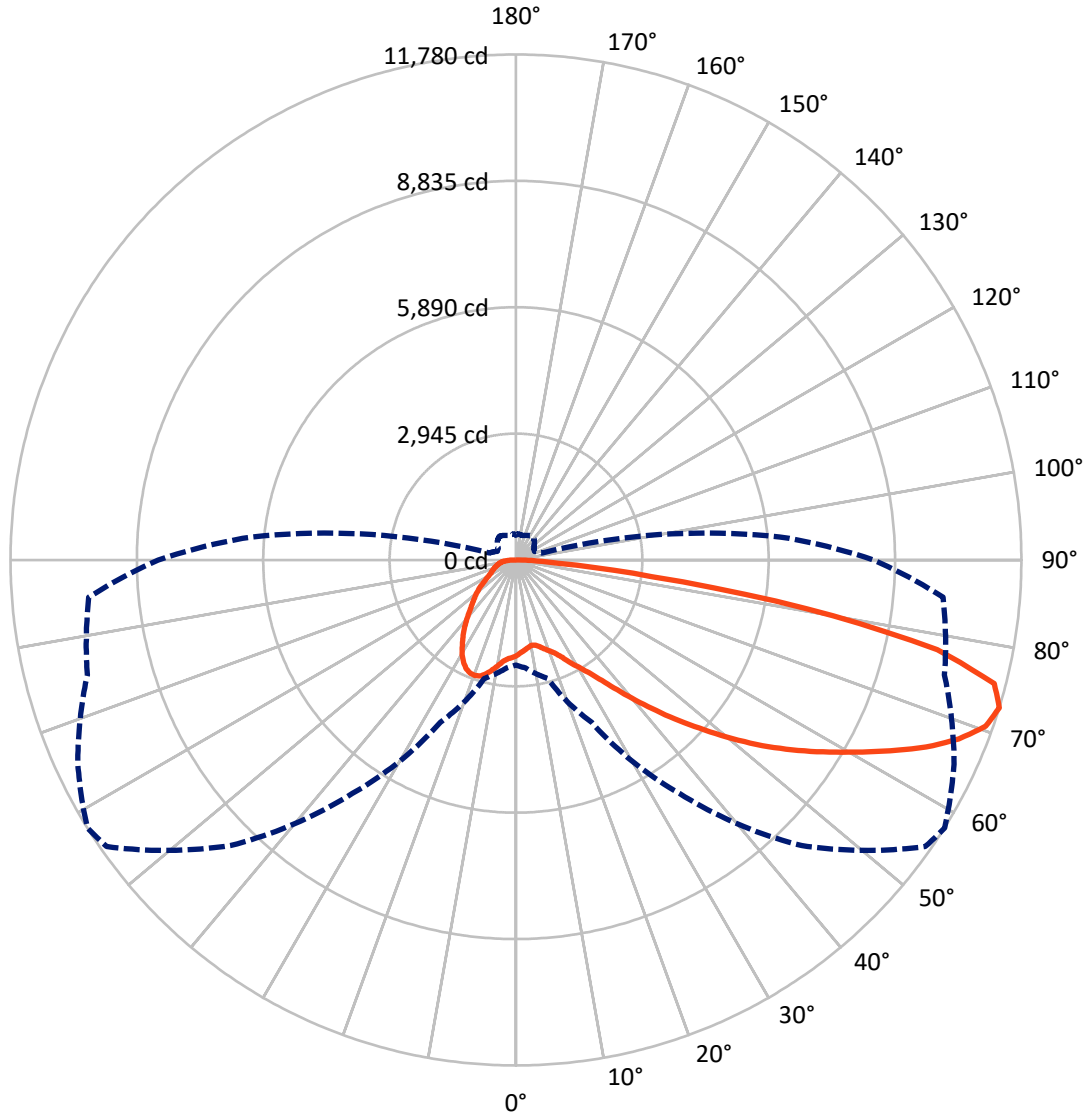
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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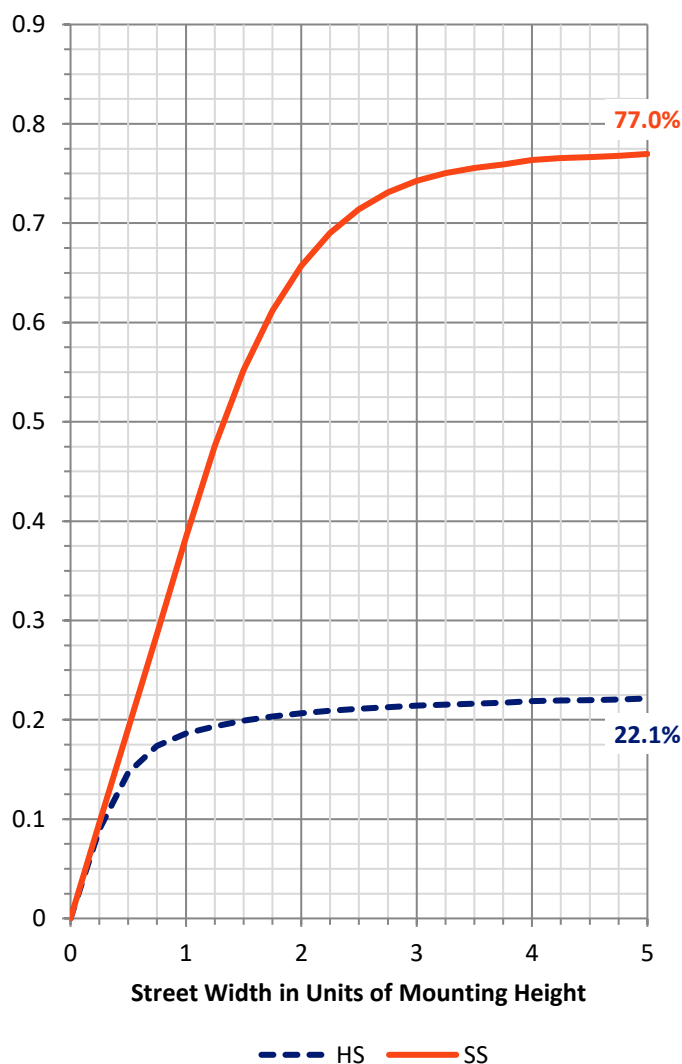
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4791.1	0.0	4791.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16334.9	0.0	16334.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	21126.0	0.0	21126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.0
10°-20°	681.7	3.2
20°-30°	1221.2	5.8
30°-40°	1837.0	8.7
40°-50°	2974.7	14.1
50°-60°	4477.9	21.2
60°-70°	5270.0	24.9
70°-80°	3736.9	17.7
80°-90°	712.1	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°	21126.0	100.0
0°-180°	21126.0	100.0

Coefficient of Utilization



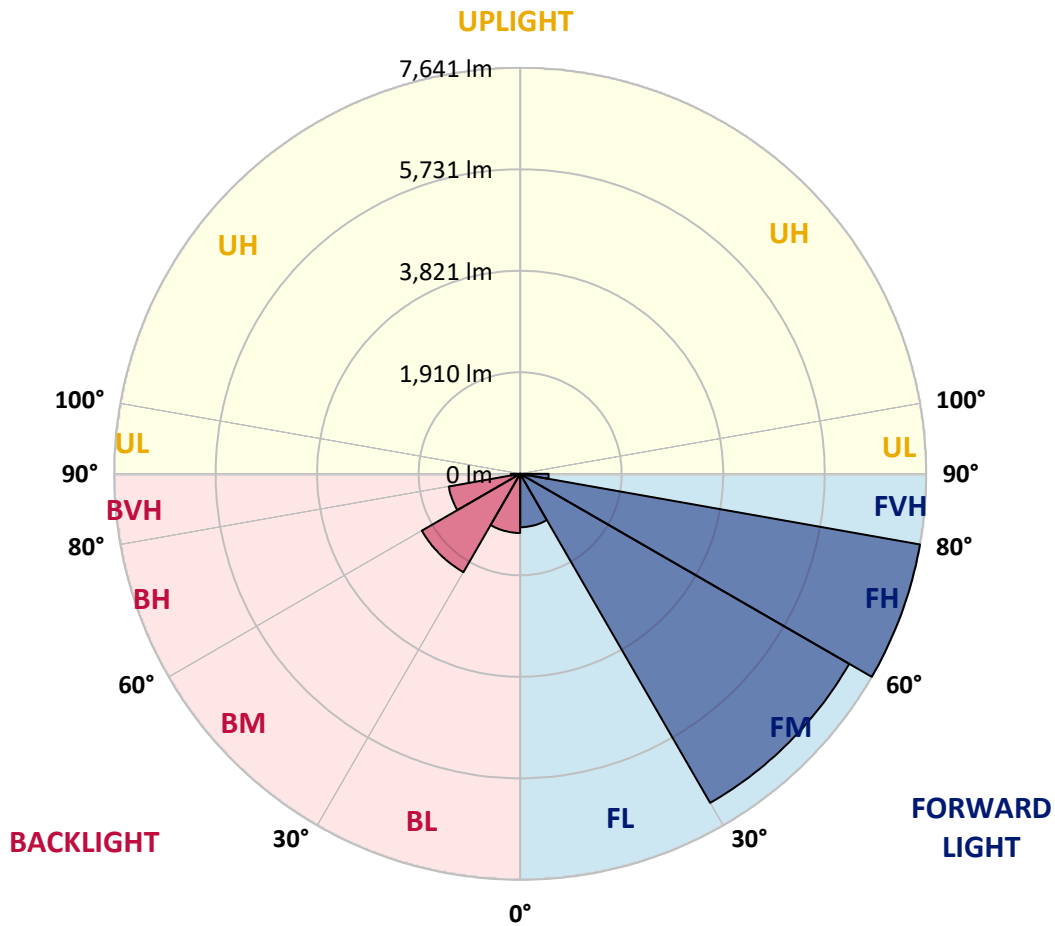
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.6	4.8			
FM (30°-60°)	7151.8	33.9			
FH (60°-80°)	7641.4	36.2			G4/12000
FVH (80°-90°)	537.1	2.5			G4/750
BL (0°-30°)	1112.9	5.3	B3/2500		
BM (30°-60°)	2137.8	10.1	B2/2500		
BH (60°-80°)	1365.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	175.0	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°	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3
2.5°	2144.7	2133.5	2136.3	2136.3	2147.5	2153.0	2155.8	2164.2	2169.8	2183.7	2203.2
5°	2044.3	2035.9	2038.7	2041.5	2061.0	2080.5	2097.3	2108.4	2125.2	2147.5	2175.4
7.5°	1971.8	1966.2	1969.0	1974.6	1991.3	2013.6	2041.5	2058.2	2083.3	2125.2	2172.6
10°	1918.8	1918.8	1921.6	1932.7	1949.5	1977.3	1999.7	2019.2	2069.4	2144.7	2217.2
12.5°	1876.9	1876.9	1885.3	1907.6	1935.5	1963.4	2016.4	2038.7	2105.6	2208.8	2295.3
15°	1874.2	1876.9	1879.7	1899.3	1929.9	1991.3	2069.4	2102.8	2183.7	2306.4	2406.8
17.5°	1918.8	1921.6	1910.4	1916.0	1952.2	2038.7	2141.9	2180.9	2284.1	2418.0	2521.2
20°	2055.4	2055.4	2022.0	1991.3	2016.4	2111.2	2228.3	2267.4	2381.7	2529.5	2632.7
22.5°	2334.3	2348.3	2270.2	2203.2	2164.2	2217.2	2323.2	2365.0	2493.3	2652.3	2755.4
25°	2671.8	2685.7	2579.7	2484.9	2412.4	2404.0	2473.8	2518.4	2624.4	2788.9	2875.4
27.5°	2998.1	2973.0	2875.4	2786.1	2694.1	2618.8	2671.8	2710.8	2833.5	2959.0	3012.0
30°	3254.7	3235.1	3140.3	3076.2	2989.7	2892.1	2861.4	2903.3	3003.7	3120.8	3148.7
32.5°	3539.1	3525.2	3430.4	3346.7	3274.2	3182.2	3115.2	3134.7	3190.5	3274.2	3290.9
35°	3901.7	3932.4	3832.0	3661.8	3581.0	3491.7	3444.3	3449.9	3491.7	3544.7	3516.8
37.5°	4283.8	4320.0	4325.6	4057.9	3949.1	3868.2	3818.0	3837.5	3887.7	3924.0	3837.5
40°	4992.2	4955.9	4810.9	4612.9	4445.5	4367.4	4297.7	4294.9	4331.2	4395.3	4239.2
42.5°	5932.0	5898.6	5605.7	5349.1	5084.2	4994.9	4858.3	4799.7	4816.5	4897.3	4679.8
45°	6832.8	6818.9	6584.6	6286.2	5968.3	5795.4	5483.0	5340.8	5326.8	5391.0	5131.6
47.5°	7633.3	7571.9	7401.8	7170.3	7136.8	6685.0	6110.5	5918.1	5851.1	5887.4	5597.4
50°	8489.5	8280.3	8046.0	7903.8	8146.4	7725.3	6743.6	6542.8	6378.3	6403.4	6102.1
52.5°	8944.1	8592.7	8439.3	8481.1	8807.4	8645.6	7432.5	7187.0	6922.1	6958.3	6604.2
55°	8553.6	8550.8	8617.8	8877.1	9331.7	9144.9	8087.9	7811.8	7521.7	7530.1	7181.5
57.5°	8018.1	8126.9	8472.7	9044.5	9981.5	9669.2	8732.1	8439.3	8174.3	8132.5	7836.9
60°	7530.1	7650.0	8152.0	9016.6	10207.4	10148.9	9345.7	9089.1	8874.3	8751.6	8525.7
62.5°	6788.2	6877.5	7588.6	8838.1	10017.8	10494.7	9967.6	9791.9	9630.1	9376.3	9267.6
65°	5915.3	5946.0	6696.2	8249.6	9780.7	10628.6	10586.7	10508.6	10352.5	9978.7	10001.1
67.5°	4969.8	5031.2	5689.4	7309.7	9262.0	10567.2	11066.4	11130.6	10946.5	10385.9	10469.6
70°	3963.0	4038.4	4537.6	6010.1	8380.7	10302.3	11509.9	11613.0	11258.9	10519.8	10556.0
72.5°	2451.5	2524.0	2858.6	4175.0	6643.2	9412.6	11646.5	11780.4	11267.2	10341.3	9992.7
75°	847.8	856.2	1118.4	2002.4	3943.5	7106.2	11200.3	11515.4	10913.0	9691.5	8695.8
77.5°	387.7	401.6	496.4	825.5	1748.7	3834.8	9248.0	10037.3	9836.5	8676.3	6693.4
80°	267.7	273.3	343.0	493.6	1009.6	1349.8	5837.2	6866.3	7217.7	6718.5	4289.4
82.5°	200.8	206.4	264.9	334.7	727.9	655.4	2222.8	3190.5	3965.8	3893.3	1793.3
85°	192.4	189.6	206.4	223.1	485.3	390.4	719.5	987.3	1547.8	1324.7	451.8
87.5°	83.7	92.0	212.0	125.5	253.8	181.3	312.4	365.3	471.3	410.0	161.8
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°	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3
2.5°	2211.6	2217.2	2233.9	2259.0	2273.0	2300.9	2320.4	2331.5	2339.9	2342.7	2342.7
5°	2192.1	2203.2	2239.5	2281.3	2320.4	2378.9	2431.9	2462.6	2484.9	2493.3	2496.1
7.5°	2197.7	2225.6	2278.5	2339.9	2390.1	2465.4	2529.5	2590.9	2641.1	2660.6	2660.6
10°	2250.7	2289.7	2362.2	2443.1	2507.2	2585.3	2652.3	2705.2	2763.8	2797.3	2802.9
12.5°	2331.5	2378.9	2473.8	2563.0	2635.5	2696.9	2758.2	2797.3	2825.2	2850.3	2855.8
15°	2445.9	2504.4	2599.3	2691.3	2755.4	2794.5	2811.2	2811.2	2808.4	2811.2	2816.8
17.5°	2560.2	2616.0	2710.8	2802.9	2833.5	2811.2	2791.7	2786.1	2783.3	2777.8	2780.5
20°	2671.8	2724.8	2805.6	2875.4	2850.3	2772.2	2747.1	2744.3	2735.9	2730.3	2724.8
22.5°	2783.3	2822.4	2889.3	2914.4	2814.0	2702.5	2671.8	2655.0	2643.9	2629.9	2616.0
25°	2911.6	2922.8	2973.0	2933.9	2724.8	2574.2	2529.5	2504.4	2493.3	2479.3	2468.2
27.5°	3031.6	3031.6	3039.9	2903.3	2593.7	2404.0	2337.1	2292.5	2289.7	2286.9	2284.1
30°	3140.3	3126.4	3098.5	2811.2	2423.6	2194.9	2094.5	2049.9	2066.6	2080.5	2083.3
32.5°	3268.6	3240.7	3162.6	2685.7	2220.0	1960.6	1837.9	1818.4	1837.9	1854.6	1843.5
35°	3469.4	3419.2	3229.6	2540.7	2024.8	1745.9	1628.7	1600.8	1595.3	1592.5	1570.2
37.5°	3756.7	3670.2	3282.6	2384.5	1832.3	1556.2	1469.8	1411.2	1358.2	1302.4	1294.1
40°	4108.1	3960.3	3318.8	2206.0	1628.7	1397.2	1305.2	1229.9	1140.7	1043.1	1031.9
42.5°	4492.9	4272.6	3335.5	2008.0	1450.2	1266.2	1151.8	1057.0	956.6	881.3	867.4
45°	4908.5	4610.1	3321.6	1818.4	1305.2	1154.6	1026.3	923.1	842.3	789.3	778.1
47.5°	5312.9	4997.7	3282.6	1667.8	1193.7	1059.8	928.7	833.9	772.5	714.0	700.0
50°	5831.6	5368.7	3235.1	1550.6	1070.9	965.0	867.4	767.0	697.2	669.3	663.8
52.5°	6406.1	5739.6	3179.4	1402.8	951.0	889.7	828.3	739.1	716.8	663.8	655.4
55°	7028.1	6180.2	3168.2	1216.0	845.0	836.7	789.3	764.2	769.7	663.8	649.8
57.5°	7683.5	6651.6	3193.3	1029.1	758.6	789.3	806.0	786.5	778.1	677.7	649.8
60°	8366.7	7106.2	3118.0	856.2	691.7	750.2	825.5	775.3	714.0	672.1	652.6
62.5°	9030.5	7488.2	2791.7	733.5	641.5	739.1	814.4	733.5	663.8	663.8	655.4
65°	9513.0	7658.4	2183.7	644.2	608.0	725.1	794.8	705.6	649.8	669.3	658.2
67.5°	9568.8	7482.7	1467.0	574.5	580.1	700.0	750.2	680.5	635.9	686.1	669.3
70°	9225.7	7025.3	898.0	521.5	543.8	655.4	711.2	655.4	616.4	672.1	647.0
72.5°	8336.1	6171.9	633.1	476.9	504.8	613.6	674.9	633.1	588.5	608.0	582.9
75°	6838.4	4783.0	502.0	435.1	465.7	574.5	644.2	599.6	555.0	546.6	529.9
77.5°	4844.3	3065.0	404.4	401.6	423.9	527.1	602.4	560.6	515.9	499.2	488.1
80°	2786.1	1503.2	348.6	362.6	384.9	479.7	552.2	515.9	474.1	449.0	432.3
82.5°	1065.4	524.3	306.8	315.1	340.2	429.5	502.0	471.3	429.5	451.8	379.3
85°	345.8	287.3	251.0	259.4	284.5	357.0	443.4	418.3	370.9	329.1	304.0
87.5°	153.4	156.2	133.9	147.8	178.5	237.1	323.5	306.8	270.5	225.9	217.5
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)