

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: P399307

Luminaire Tested: **ARCH-L-PA3-120-760-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-760-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19629 lumens
Efficiency: N/A
Efficacy: 159.6 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

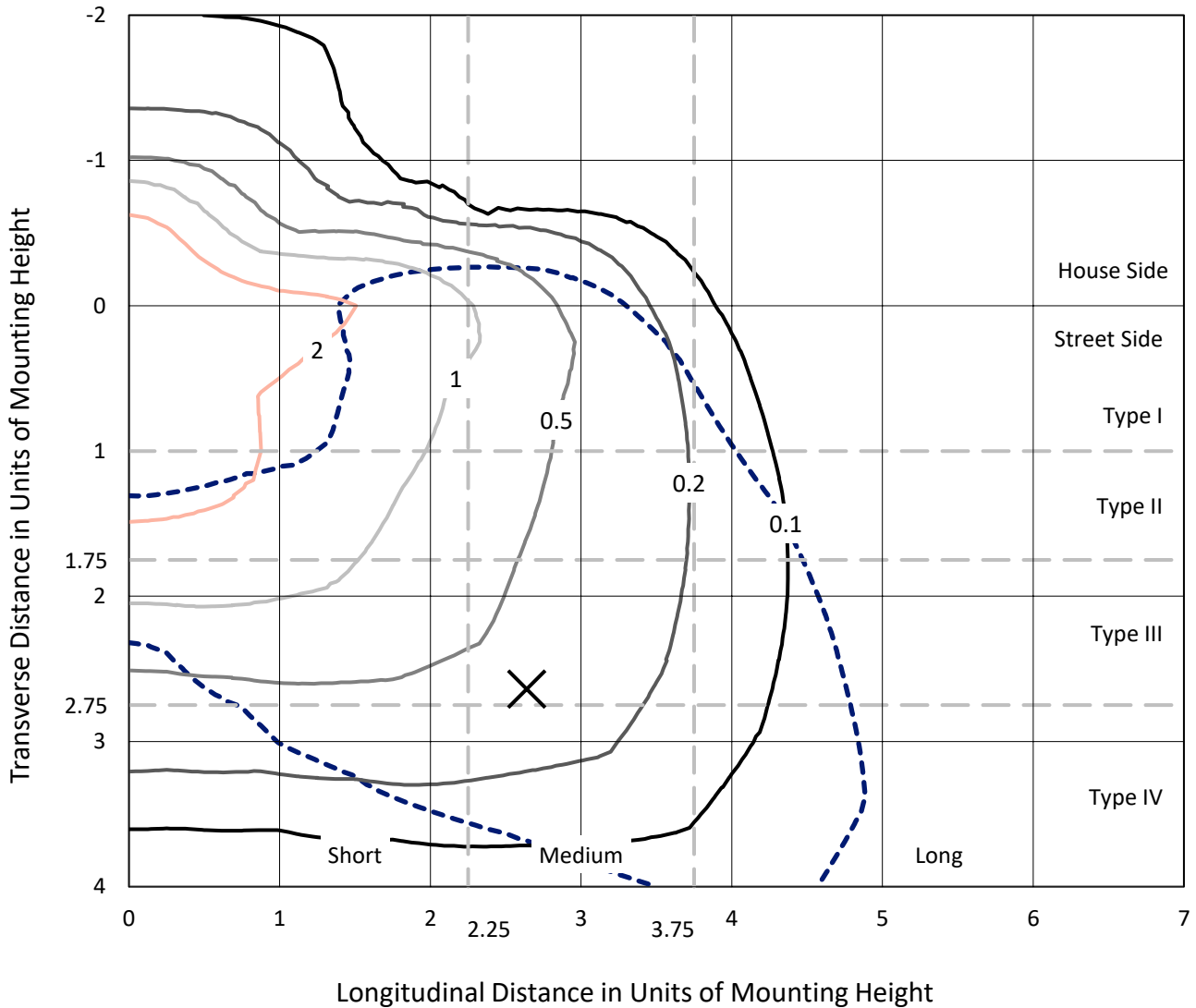
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

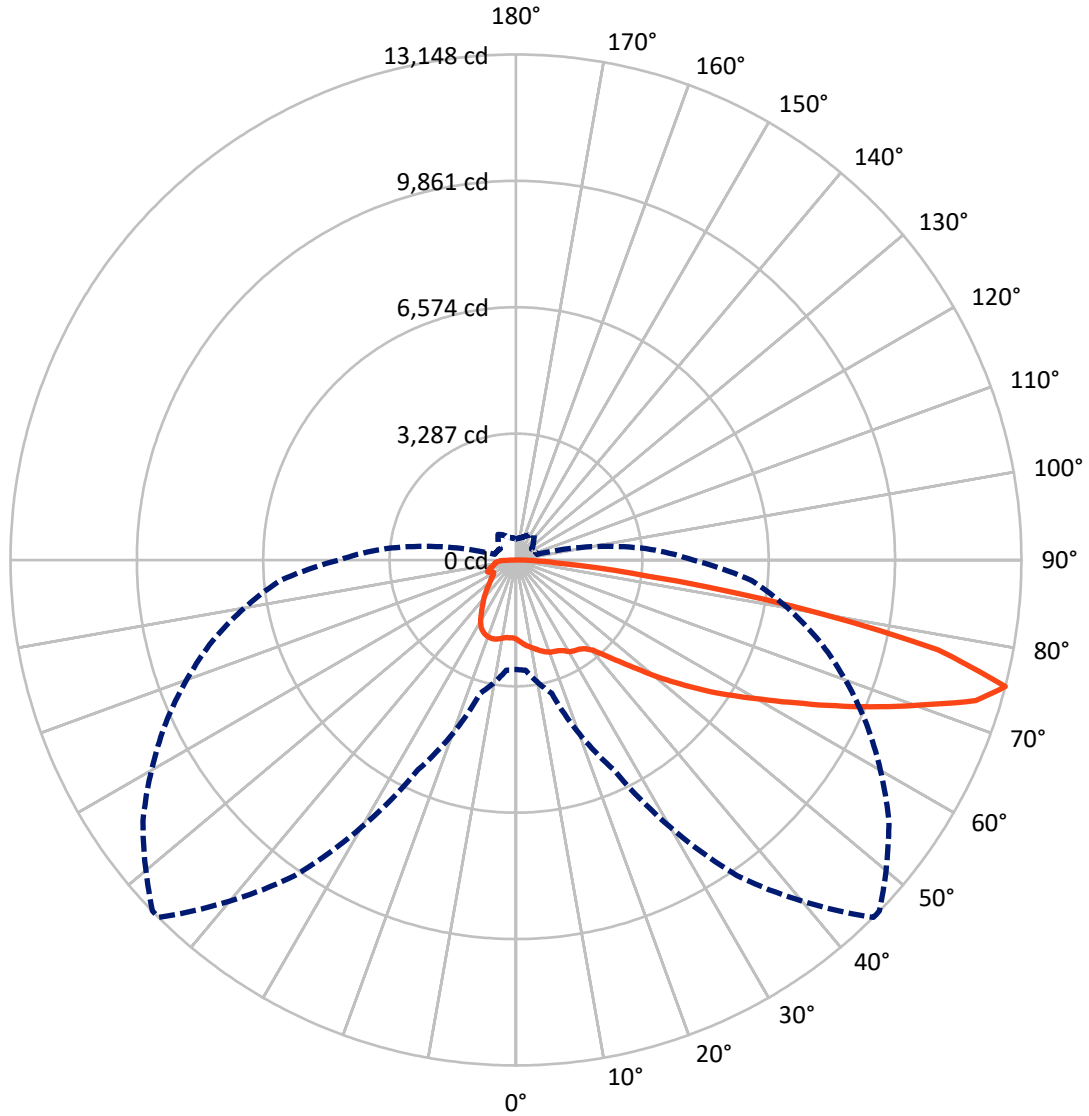
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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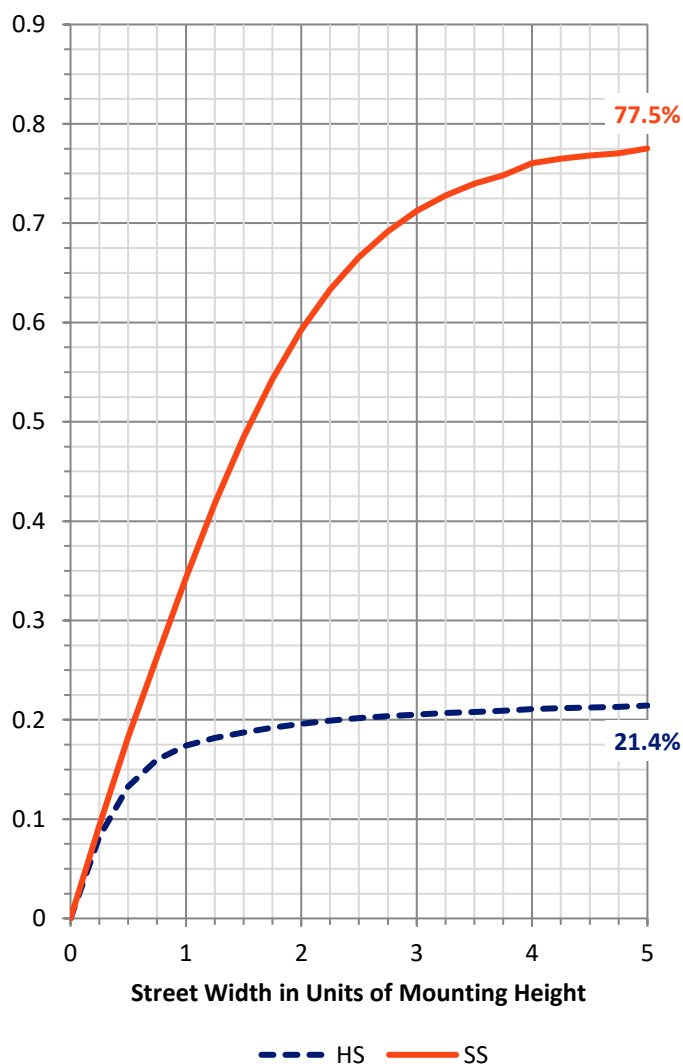
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4337.9	0.0	4337.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15291.1	0.0	15291.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	19629.0	0.0	19629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.0
10°-20°	648.8	3.3
20°-30°	1106.1	5.6
30°-40°	1549.8	7.9
40°-50°	2276.9	11.6
50°-60°	3623.7	18.5
60°-70°	5154.7	26.3
70°-80°	4316.0	22.0
80°-90°	749.0	3.8
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°	19629.0	100.0
0°-180°	19629.0	100.0

Coefficient of Utilization

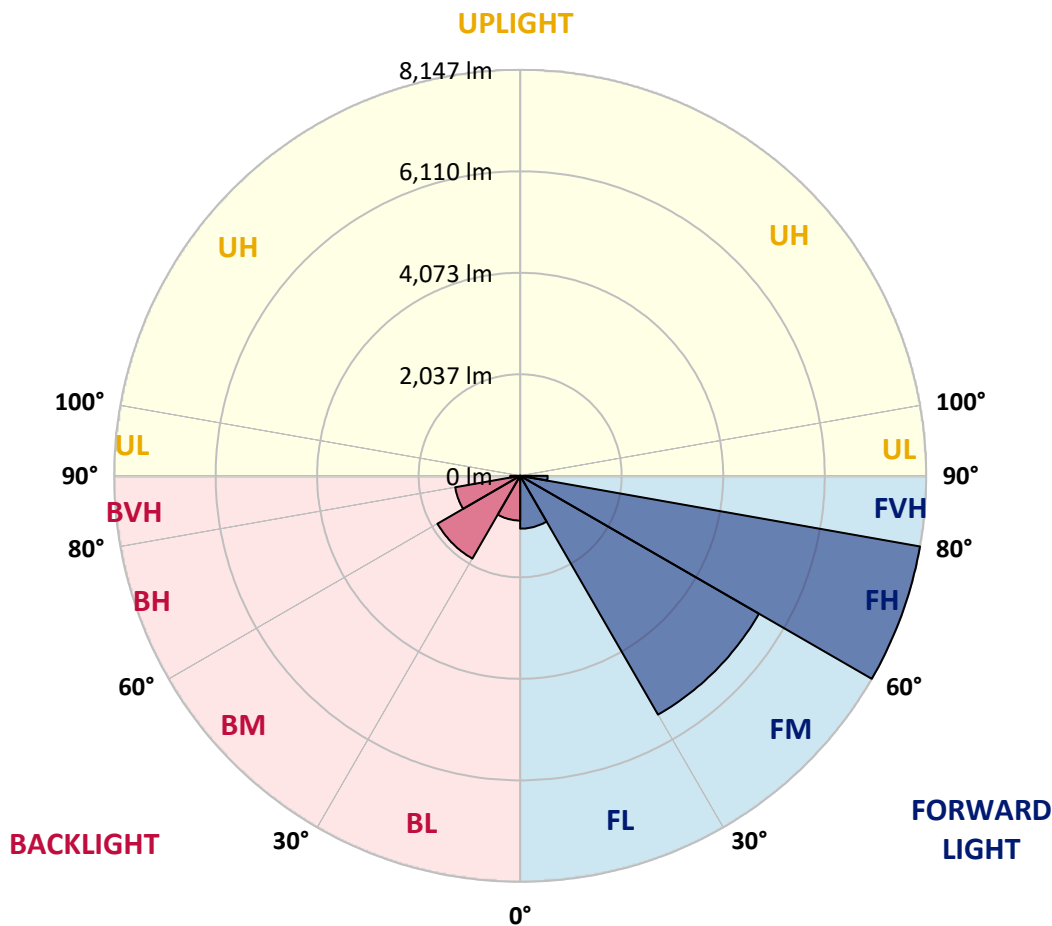


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.1	5.4			
FM (30°-60°)	5532.8	28.2			
FH (60°-80°)	8146.5	41.5			G4/12000
FVH (80°-90°)	550.7	2.8			G4/750
BL (0°-30°)	897.8	4.6	B2/1000		
BM (30°-60°)	1917.6	9.8	B2/2500		
BH (60°-80°)	1324.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	198.4	1.0			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°	46°	55°	65°	75°	85°
0°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2179.5	2169.0	2163.8	2163.8	2142.8	2129.7	2127.0	2108.7	2092.9	2077.2	2064.1
5°	2305.4	2297.5	2281.8	2268.7	2239.8	2203.1	2197.9	2158.5	2119.2	2082.5	2051.0
7.5°	2420.8	2405.1	2386.7	2360.5	2313.3	2263.4	2255.6	2200.5	2145.4	2090.3	2048.4
10°	2517.8	2502.1	2475.9	2439.1	2378.8	2318.5	2310.6	2252.9	2195.2	2129.7	2069.3
12.5°	2609.6	2596.5	2557.2	2507.3	2436.5	2381.4	2373.6	2323.7	2263.4	2190.0	2111.3
15°	2688.3	2675.2	2633.2	2575.5	2494.2	2452.3	2441.8	2394.6	2334.2	2255.6	2174.3
17.5°	2727.7	2727.7	2683.1	2620.1	2544.1	2512.6	2504.7	2447.0	2391.9	2315.9	2234.6
20°	2740.8	2746.0	2714.5	2638.5	2572.9	2559.8	2551.9	2504.7	2441.8	2368.3	2292.3
22.5°	2748.6	2759.1	2732.9	2646.3	2591.3	2583.4	2578.2	2546.7	2496.8	2426.0	2350.0
25°	2774.9	2774.9	2756.5	2659.5	2614.9	2612.3	2612.3	2593.9	2559.8	2499.5	2423.4
27.5°	2814.2	2811.6	2788.0	2688.3	2667.3	2675.2	2672.6	2670.0	2646.3	2586.0	2504.7
30°	2879.8	2879.8	2853.5	2746.0	2732.9	2767.0	2769.6	2774.9	2738.1	2643.7	2578.2
32.5°	2979.4	2968.9	2942.7	2803.7	2782.7	2814.2	2819.4	2816.8	2785.4	2696.2	2664.7
35°	3286.3	3262.7	3168.3	2932.2	2827.3	2845.7	2848.3	2861.4	2866.7	2795.8	2780.1
37.5°	3824.0	3792.5	3648.2	3236.5	2968.9	2924.4	2921.7	2955.8	2984.7	2921.7	2921.7
40°	4408.8	4382.6	4298.7	3761.0	3231.2	3084.3	3073.9	3105.3	3142.0	3097.5	3110.6
42.5°	4912.4	4933.4	4941.2	4317.0	3624.6	3383.3	3354.5	3309.9	3367.6	3328.3	3380.7
45°	5290.1	5279.6	5423.8	4886.2	4133.4	3758.4	3719.0	3598.4	3671.8	3669.2	3784.6
47.5°	5691.3	5673.0	5733.3	5421.2	4713.1	4217.4	4157.0	3978.7	4088.9	4164.9	4356.4
50°	6071.6	6076.9	6097.9	5843.5	5342.5	4776.0	4700.0	4461.3	4618.6	4778.6	5048.8
52.5°	6567.3	6530.6	6504.4	6336.5	6048.0	5358.3	5308.4	5035.7	5256.0	5444.8	5804.1
55°	7000.1	6976.5	6960.8	6952.9	6638.2	6000.8	5948.4	5665.1	5982.5	6116.2	6646.0
57.5°	7461.7	7448.6	7532.5	7666.3	7540.4	6653.9	6598.8	6326.1	6680.1	6774.5	7558.7
60°	7800.0	7807.9	8038.7	8379.7	8293.1	7362.0	7296.5	7055.2	7359.4	7443.3	8471.5
62.5°	7802.7	7881.3	8416.4	9027.5	9127.1	8177.7	8101.6	7839.4	8057.1	8057.1	9289.7
65°	7057.8	7147.0	8348.2	9187.5	9971.7	9148.1	9074.7	8662.9	8744.2	8634.1	10058.2
67.5°	6315.6	6420.5	7550.9	9200.6	10564.4	10186.7	10100.2	9486.5	9347.4	9069.4	10595.9
70°	5822.5	5895.9	6840.1	9030.1	10921.1	11272.5	11207.0	10268.0	9822.2	9434.0	10483.1
72.5°	4901.9	4875.7	5777.9	8219.7	11120.4	12505.2	12450.2	11117.8	10233.9	9260.9	8940.9
75°	2845.7	2877.1	3585.3	6021.8	10024.1	13147.8	13142.6	11844.3	10053.0	8180.3	6160.8
77.5°	820.9	844.5	1177.6	2646.3	6339.2	11214.8	11574.2	10831.9	8497.7	5830.4	3194.5
80°	359.3	377.7	511.4	881.2	2730.3	7325.3	7640.0	7325.3	5124.8	2675.2	1253.7
82.5°	212.4	225.6	333.1	545.5	1308.7	3485.6	3910.5	3414.8	2211.0	1135.6	519.3
85°	120.6	125.9	191.5	346.2	823.5	1219.6	1369.1	1282.5	1077.9	645.2	272.8
87.5°	55.1	57.7	94.4	162.6	461.6	411.8	427.5	566.5	624.2	393.4	136.4
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°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2058.9	2051.0	2035.2	2030.0	2022.1	2024.8	2027.4	2027.4	2030.0	2022.1	2022.1
5°	2037.9	2024.8	2009.0	2009.0	2009.0	2030.0	2048.4	2058.9	2064.1	2064.1	2058.9
7.5°	2030.0	2014.3	1995.9	2001.2	2006.4	2032.6	2066.7	2100.8	2111.3	2111.3	2106.1
10°	2045.7	2030.0	2016.9	2024.8	2037.9	2058.9	2085.1	2116.6	2142.8	2145.4	2142.8
12.5°	2082.5	2064.1	2051.0	2066.7	2082.5	2095.6	2108.7	2121.8	2155.9	2161.1	2161.1
15°	2142.8	2124.4	2108.7	2121.8	2127.0	2127.0	2127.0	2127.0	2161.1	2166.4	2166.4
17.5°	2203.1	2187.4	2171.6	2174.3	2158.5	2137.5	2129.7	2127.0	2145.4	2161.1	2163.8
20°	2260.8	2247.7	2232.0	2205.7	2166.4	2127.0	2113.9	2113.9	2124.4	2148.0	2148.0
22.5°	2323.7	2308.0	2281.8	2221.5	2155.9	2100.8	2087.7	2095.6	2108.7	2140.2	2137.5
25°	2394.6	2373.6	2329.0	2216.2	2121.8	2056.2	2058.9	2082.5	2106.1	2140.2	2140.2
27.5°	2473.2	2444.4	2355.2	2174.3	2045.7	1982.8	2006.4	2061.5	2095.6	2132.3	2137.5
30°	2559.8	2533.6	2376.2	2100.8	1922.5	1864.8	1922.5	2011.6	2064.1	2098.2	2106.1
32.5°	2664.7	2643.7	2394.6	2006.4	1762.5	1712.6	1796.6	1906.7	1990.7	2030.0	2037.9
35°	2795.8	2774.9	2418.2	1898.9	1613.0	1560.5	1636.6	1749.4	1859.5	1909.4	1925.1
37.5°	2966.3	2934.8	2439.1	1783.5	1487.1	1426.8	1463.5	1565.8	1665.4	1733.6	1752.0
40°	3184.0	3134.2	2457.5	1652.3	1376.9	1308.7	1321.9	1371.7	1429.4	1489.7	1513.3
42.5°	3490.9	3391.2	2460.1	1513.3	1264.2	1201.2	1196.0	1211.7	1211.7	1211.7	1219.6
45°	3918.4	3729.5	2465.4	1382.2	1148.8	1083.2	1067.5	1062.2	1022.9	946.8	941.6
47.5°	4458.7	4172.8	2489.0	1272.0	1028.1	970.4	949.4	928.5	855.0	776.3	760.6
50°	5151.1	4686.8	2536.2	1167.1	925.8	886.5	860.3	810.4	729.1	668.8	653.1
52.5°	5948.4	5297.9	2580.8	1057.0	849.8	823.5	792.1	731.7	645.2	608.5	603.2
55°	6863.7	5979.8	2670.0	959.9	784.2	765.8	737.0	679.3	613.7	587.5	584.9
57.5°	7800.0	6743.1	2795.8	873.4	721.3	710.8	710.8	660.9	619.0	608.5	608.5
60°	8702.3	7398.8	2698.8	792.1	663.6	668.8	718.6	705.5	674.0	687.2	695.0
62.5°	9402.5	7784.3	2190.0	726.5	621.6	668.8	797.3	797.3	760.6	755.3	755.3
65°	9701.5	7779.1	1539.5	676.7	605.9	734.4	889.1	847.1	750.1	713.4	705.5
67.5°	9625.5	7438.1	1062.2	642.6	600.6	802.6	931.1	813.0	702.9	671.4	647.8
70°	8956.7	6716.8	818.3	611.1	592.7	773.7	918.0	773.7	666.2	637.3	616.3
72.5°	7225.7	5387.1	679.3	579.6	561.3	716.0	873.4	737.0	637.3	605.9	584.9
75°	4608.2	3388.6	574.4	537.7	500.9	642.6	813.0	700.3	605.9	563.9	548.2
77.5°	2216.2	1460.9	500.9	487.8	451.1	595.4	752.7	653.1	563.9	529.8	519.3
80°	897.0	668.8	435.4	438.0	414.4	566.5	710.8	608.5	521.9	485.2	466.8
82.5°	466.8	388.2	367.2	377.7	377.7	540.3	679.3	571.8	485.2	469.5	409.1
85°	251.8	241.3	283.3	304.2	327.8	487.8	632.1	532.4	443.2	380.3	367.2
87.5°	123.3	157.4	160.0	183.6	228.2	390.8	532.4	445.9	369.8	306.9	301.6
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)