

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: P399350

Luminaire Tested: **ARCH-L-PA3-130-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399350
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-PA3-130-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19239 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

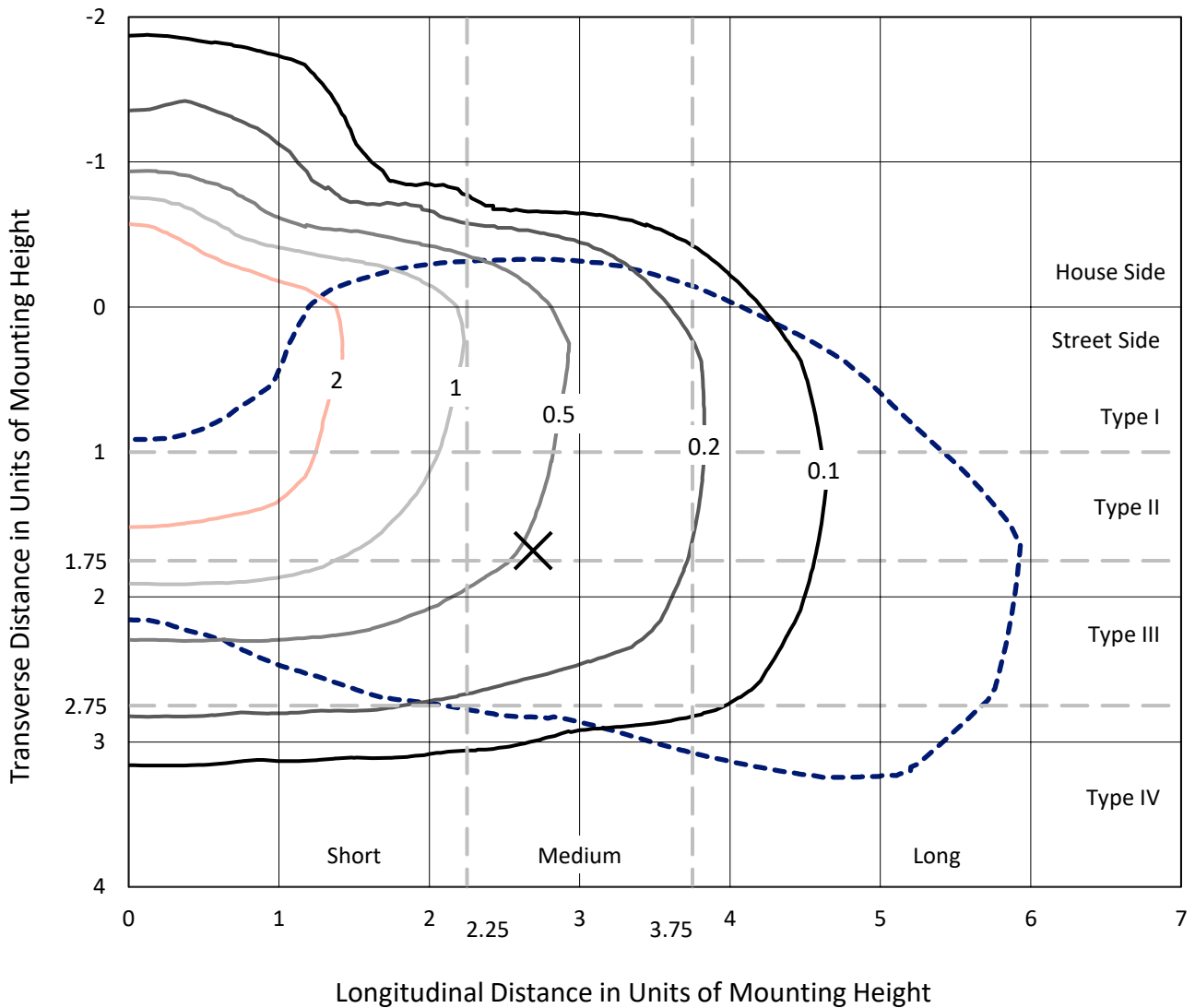
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

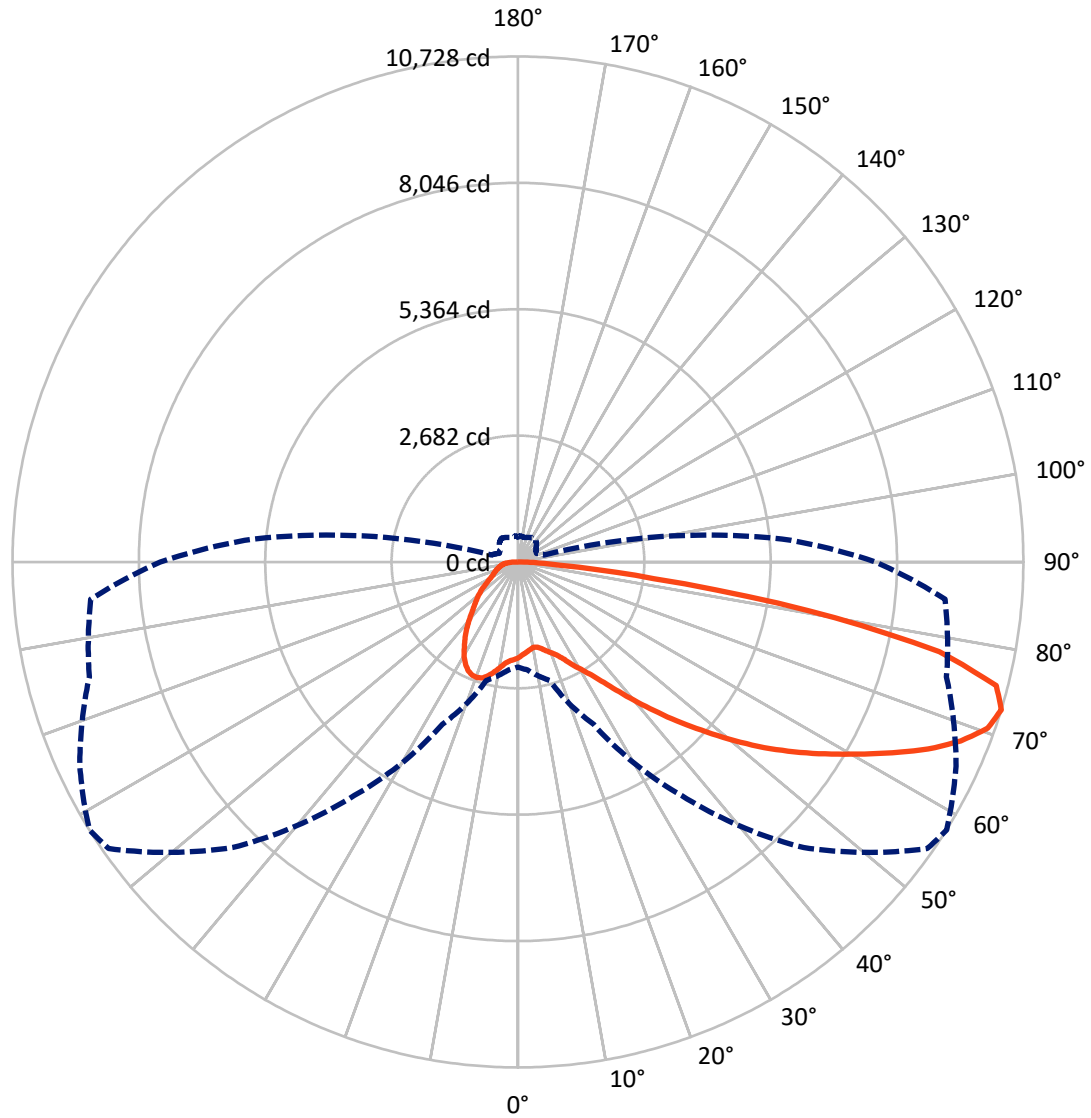
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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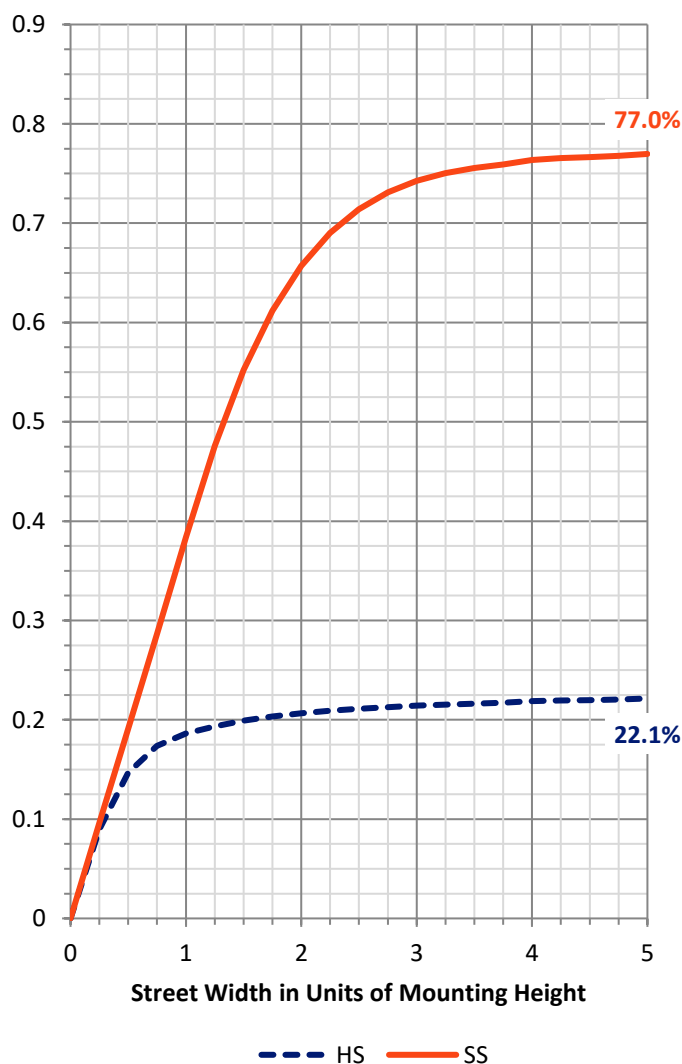
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4363.2	0.0	4363.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14875.8	0.0	14875.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	19239.0	0.0	19239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	1.0
10°-20°	620.8	3.2
20°-30°	1112.1	5.8
30°-40°	1672.9	8.7
40°-50°	2709.0	14.1
50°-60°	4077.9	21.2
60°-70°	4799.3	24.9
70°-80°	3403.1	17.7
80°-90°	648.5	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°	19239.0	100.0
0°-180°	19239.0	100.0

Coefficient of Utilization



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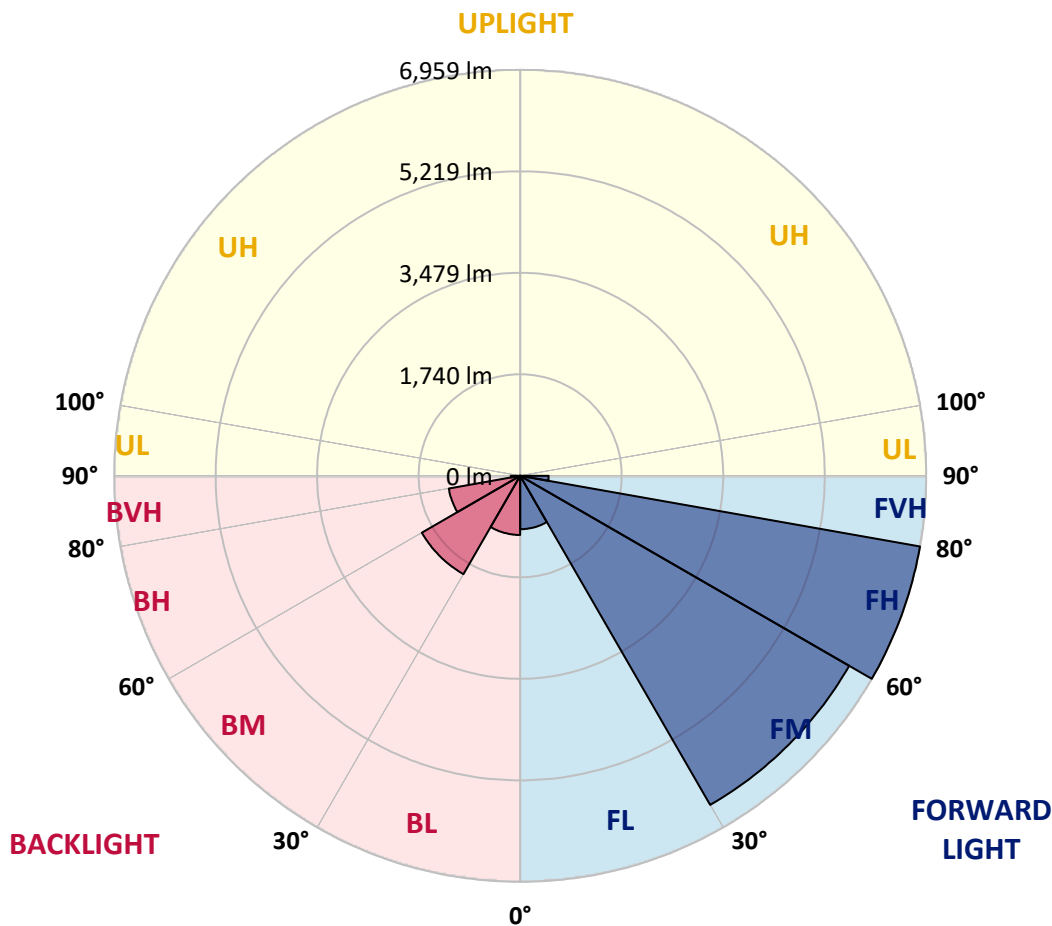
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.9	4.8			
FM (30°-60°)	6513.0	33.9			
FH (60°-80°)	6958.8	36.2			G3/7500
FVH (80°-90°)	489.1	2.5			G3/500
BL (0°-30°)	1013.5	5.3	B3/2500		
BM (30°-60°)	1946.8	10.1	B2/2500		
BH (60°-80°)	1243.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	159.3	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3
2.5°	1953.1	1943.0	1945.5	1945.5	1955.7	1960.7	1963.3	1970.9	1976.0	1988.7	2006.4
5°	1861.7	1854.1	1856.6	1859.1	1876.9	1894.7	1909.9	1920.1	1935.3	1955.7	1981.0
7.5°	1795.6	1790.6	1793.1	1798.2	1813.4	1833.7	1859.1	1874.4	1897.2	1935.3	1978.5
10°	1747.4	1747.4	1749.9	1760.1	1775.3	1800.7	1821.0	1838.8	1884.5	1953.1	2019.1
12.5°	1709.3	1709.3	1716.9	1737.2	1762.6	1788.0	1836.3	1856.6	1917.6	2011.5	2090.3
15°	1706.8	1709.3	1711.8	1729.6	1757.5	1813.4	1884.5	1915.0	1988.7	2100.4	2191.9
17.5°	1747.4	1749.9	1739.8	1744.8	1777.9	1856.6	1950.6	1986.1	2080.1	2202.0	2296.0
20°	1871.8	1871.8	1841.4	1813.4	1836.3	1922.6	2029.3	2064.9	2169.0	2303.6	2397.6
22.5°	2125.8	2138.5	2067.4	2006.4	1970.9	2019.1	2115.7	2153.8	2270.6	2415.4	2509.3
25°	2433.1	2445.8	2349.3	2263.0	2196.9	2189.3	2252.8	2293.4	2390.0	2539.8	2618.5
27.5°	2730.3	2707.4	2618.5	2537.3	2453.5	2384.9	2433.1	2468.7	2580.4	2694.7	2743.0
30°	2964.0	2946.2	2859.8	2801.4	2722.7	2633.8	2605.8	2643.9	2735.4	2842.0	2867.4
32.5°	3223.0	3210.3	3124.0	3047.8	2981.7	2897.9	2837.0	2854.7	2905.5	2981.7	2997.0
35°	3553.2	3581.1	3489.7	3334.8	3261.1	3179.8	3136.7	3141.7	3179.8	3228.1	3202.7
37.5°	3901.1	3934.2	3939.2	3695.4	3596.4	3522.7	3477.0	3494.8	3540.5	3573.5	3494.8
40°	4546.3	4513.2	4381.2	4200.8	4048.5	3977.3	3913.8	3911.3	3944.3	4002.7	3860.5
42.5°	5402.2	5371.7	5105.0	4871.3	4630.1	4548.8	4424.3	4371.0	4386.2	4459.9	4261.8
45°	6222.5	6209.8	5996.5	5724.7	5435.2	5277.7	4993.3	4863.7	4851.0	4909.4	4673.2
47.5°	6951.5	6895.6	6740.6	6529.8	6499.4	6087.9	5564.7	5389.5	5328.5	5361.5	5097.4
50°	7731.2	7540.7	7327.3	7197.8	7418.8	7035.3	6141.3	5958.4	5808.5	5831.4	5557.1
52.5°	8145.2	7825.1	7685.5	7723.6	8020.7	7873.4	6768.6	6545.1	6303.8	6336.8	6014.3
55°	7789.6	7787.0	7848.0	8084.2	8498.2	8328.0	7365.4	7114.0	6849.9	6857.5	6540.0
57.5°	7301.9	7401.0	7715.9	8236.6	9090.0	8805.5	7952.1	7685.5	7444.2	7406.1	7136.9
60°	6857.5	6966.7	7423.9	8211.2	9295.7	9242.4	8510.9	8277.2	8081.7	7969.9	7764.2
62.5°	6181.9	6263.2	6910.8	8048.6	9123.0	9557.3	9077.3	8917.3	8770.0	8538.8	8439.8
65°	5386.9	5414.9	6098.1	7512.7	8907.1	9679.2	9641.1	9570.0	9427.8	9087.4	9107.7
67.5°	4525.9	4581.8	5181.2	6656.8	8434.7	9623.3	10078.0	10136.4	9968.7	9458.2	9534.4
70°	3609.1	3677.6	4132.3	5473.3	7632.1	9382.0	10481.8	10575.8	10253.2	9580.2	9613.2
72.5°	2232.5	2298.5	2603.3	3802.1	6049.8	8571.8	10606.2	10728.1	10260.8	9417.6	9100.1
75°	772.1	779.7	1018.5	1823.6	3591.3	6471.4	10199.9	10486.9	9938.3	8825.8	7919.1
77.5°	353.0	365.7	452.1	751.8	1592.5	3492.2	8422.0	9140.8	8957.9	7901.3	6095.5
80°	243.8	248.9	312.4	449.5	919.4	1229.3	5315.8	6253.0	6573.0	6118.4	3906.2
82.5°	182.9	187.9	241.3	304.8	662.9	596.9	2024.2	2905.5	3611.6	3545.6	1633.1
85°	175.2	172.7	187.9	203.2	441.9	355.6	655.3	899.1	1409.6	1206.4	411.4
87.5°	76.2	83.8	193.0	114.3	231.1	165.1	284.5	332.7	429.2	373.4	147.3
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°	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3
2.5°	2014.1	2019.1	2034.4	2057.2	2069.9	2095.3	2113.1	2123.3	2130.9	2133.4	2133.4
5°	1996.3	2006.4	2039.5	2077.6	2113.1	2166.5	2214.7	2242.6	2263.0	2270.6	2273.1
7.5°	2001.4	2026.8	2075.0	2130.9	2176.6	2245.2	2303.6	2359.5	2405.2	2423.0	2423.0
10°	2049.6	2085.2	2151.2	2224.9	2283.3	2354.4	2415.4	2463.6	2516.9	2547.4	2552.5
12.5°	2123.3	2166.5	2252.8	2334.1	2400.1	2456.0	2511.9	2547.4	2572.8	2595.7	2600.8
15°	2227.4	2280.7	2367.1	2450.9	2509.3	2544.9	2560.1	2560.1	2557.6	2560.1	2565.2
17.5°	2331.5	2382.3	2468.7	2552.5	2580.4	2560.1	2542.3	2537.3	2534.7	2529.6	2532.2
20°	2433.1	2481.4	2555.0	2618.5	2595.7	2524.6	2501.7	2499.2	2491.6	2486.5	2481.4
22.5°	2534.7	2570.3	2631.2	2654.1	2562.7	2461.1	2433.1	2417.9	2407.7	2395.0	2382.3
25°	2651.6	2661.7	2707.4	2671.9	2481.4	2344.2	2303.6	2280.7	2270.6	2257.9	2247.7
27.5°	2760.8	2760.8	2768.4	2643.9	2362.0	2189.3	2128.4	2087.7	2085.2	2082.6	2080.1
30°	2859.8	2847.1	2821.7	2560.1	2207.1	1998.8	1907.4	1866.8	1882.0	1894.7	1897.2
32.5°	2976.7	2951.3	2880.1	2445.8	2021.7	1785.5	1673.7	1656.0	1673.7	1689.0	1678.8
35°	3159.5	3113.8	2941.1	2313.8	1843.9	1589.9	1483.2	1457.8	1452.8	1450.2	1429.9
37.5°	3421.1	3342.4	2989.4	2171.5	1668.7	1417.2	1338.5	1285.1	1236.9	1186.1	1178.5
40°	3741.1	3606.5	3022.4	2009.0	1483.2	1272.4	1188.6	1120.1	1038.8	949.9	939.7
42.5°	4091.6	3891.0	3037.6	1828.7	1320.7	1153.1	1048.9	962.6	871.2	802.6	789.9
45°	4470.1	4198.3	3024.9	1656.0	1188.6	1051.5	934.6	840.7	767.0	718.8	708.6
47.5°	4838.3	4551.3	2989.4	1518.8	1087.0	965.1	845.8	759.4	703.5	650.2	637.5
50°	5310.7	4889.1	2946.2	1412.1	975.3	878.8	789.9	698.4	635.0	609.6	604.5
52.5°	5833.9	5226.9	2895.4	1277.5	866.1	810.2	754.3	673.0	652.7	604.5	596.9
55°	6400.3	5628.2	2885.2	1107.4	769.6	761.9	718.8	695.9	701.0	604.5	591.8
57.5°	6997.2	6057.4	2908.1	937.2	690.8	718.8	734.0	716.2	708.6	617.2	591.8
60°	7619.4	6471.4	2839.5	779.7	629.9	683.2	751.8	706.1	650.2	612.1	594.3
62.5°	8223.9	6819.4	2542.3	668.0	584.2	673.0	741.6	668.0	604.5	604.5	596.9
65°	8663.3	6974.3	1988.7	586.7	553.7	660.3	723.8	642.6	591.8	609.6	599.4
67.5°	8714.1	6814.3	1335.9	523.2	528.3	637.5	683.2	619.7	579.1	624.8	609.6
70°	8401.7	6397.8	817.8	474.9	495.3	596.9	647.7	596.9	561.3	612.1	589.2
72.5°	7591.5	5620.6	576.5	434.3	459.7	558.8	614.6	576.5	535.9	553.7	530.8
75°	6227.6	4355.8	457.2	396.2	424.1	523.2	586.7	546.1	505.4	497.8	482.6
77.5°	4411.6	2791.2	368.3	365.7	386.1	480.0	548.6	510.5	469.9	454.6	444.5
80°	2537.3	1369.0	317.5	330.2	350.5	436.8	502.9	469.9	431.8	408.9	393.7
82.5°	970.2	477.5	279.4	287.0	309.9	391.1	457.2	429.2	391.1	411.4	345.4
85°	314.9	261.6	228.6	236.2	259.1	325.1	403.8	381.0	337.8	299.7	276.8
87.5°	139.7	142.2	121.9	134.6	162.5	215.9	294.6	279.4	246.4	205.7	198.1
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)