

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: P237067

Luminaire Tested: **ARCH-L-AF72-140-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-140-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18294.4 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

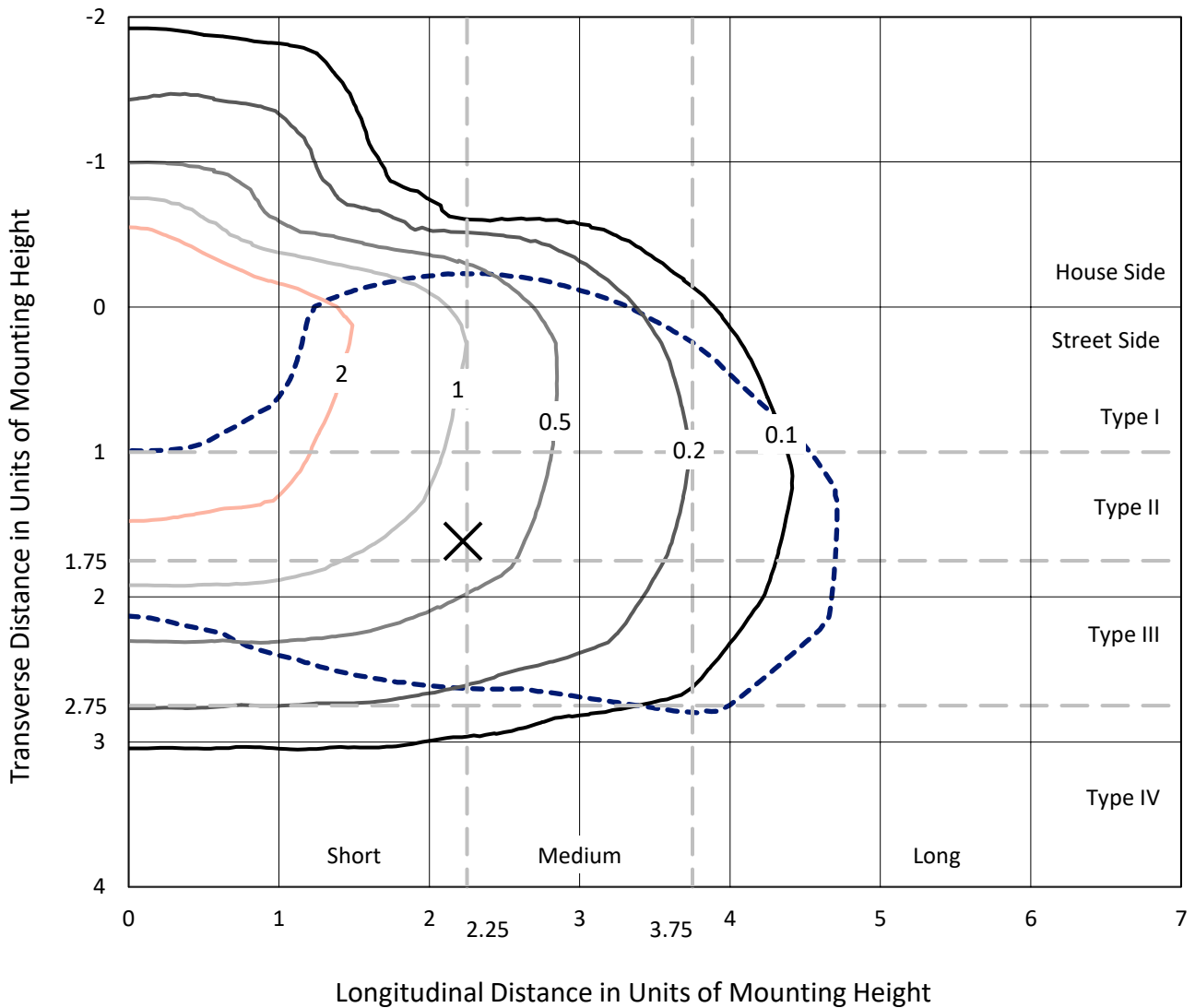
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

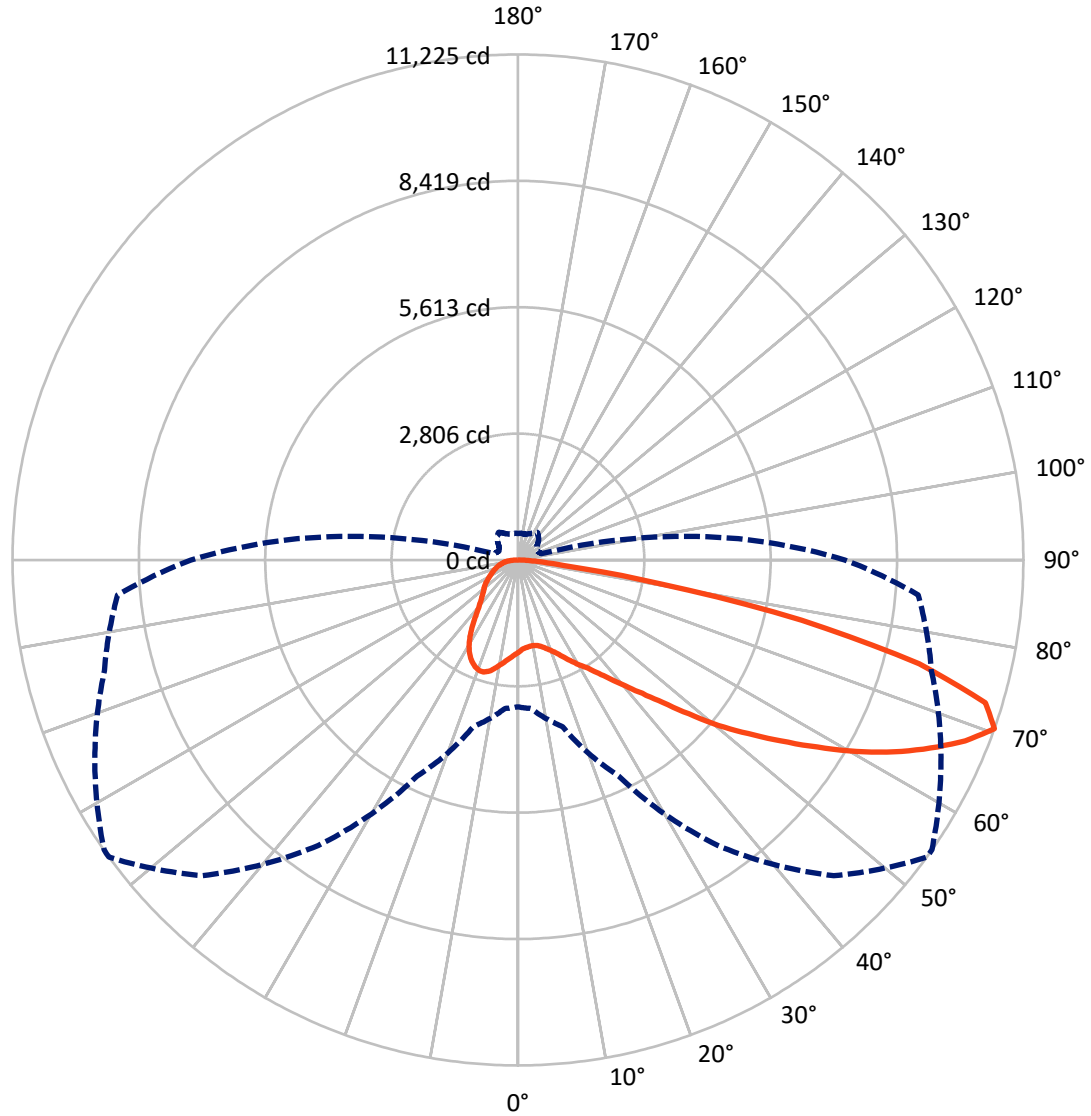
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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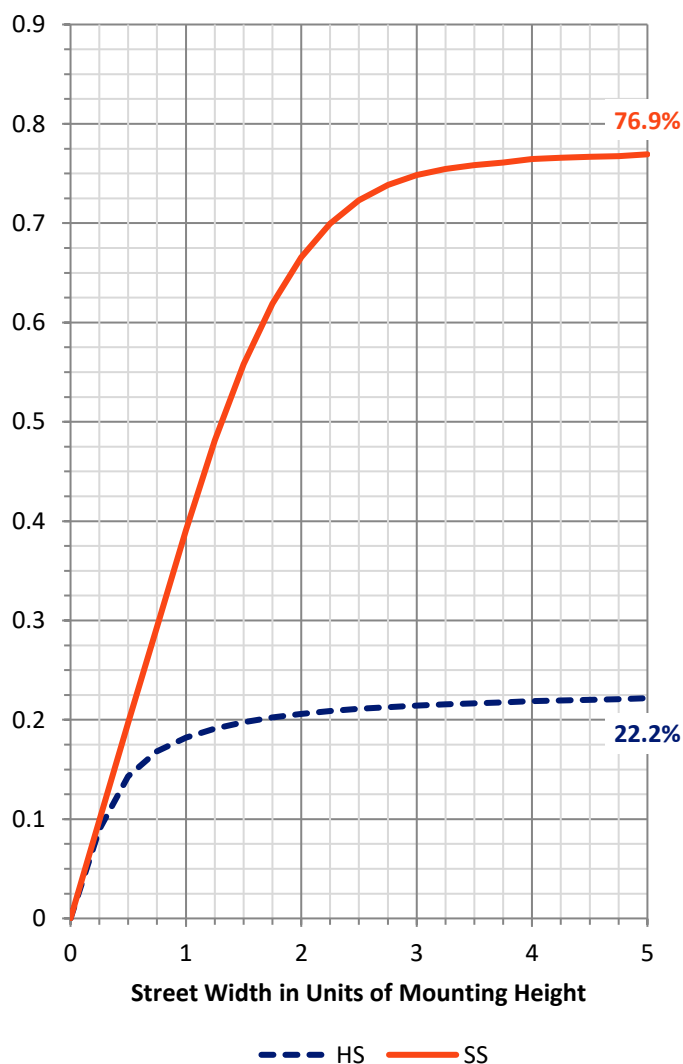
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4149.1	0.0	4149.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14145.3	0.0	14145.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	18294.4	0.0	18294.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.1
10°-20°	641.8	3.5
20°-30°	1115.1	6.1
30°-40°	1629.5	8.9
40°-50°	2557.5	14.0
50°-60°	3932.8	21.5
60°-70°	4804.9	26.3
70°-80°	2979.1	16.3
80°-90°	432.8	2.4
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°	18294.4	100.0
0°-180°	18294.4	100.0

Coefficient of Utilization



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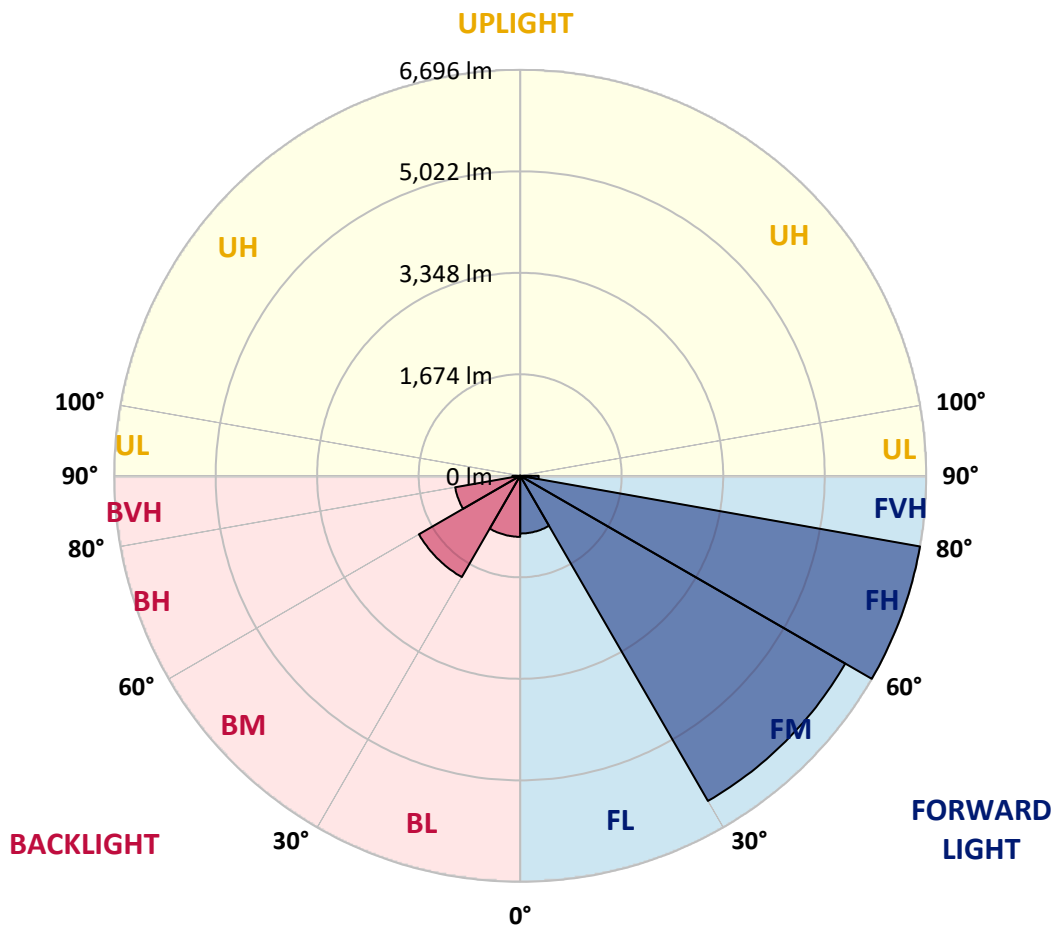
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.8	5.2			
FM (30°-60°)	6191.8	33.8			
FH (60°-80°)	6696.0	36.6			G3/7500
FVH (80°-90°)	305.6	1.7			G3/500
BL (0°-30°)	1005.9	5.5	B3/2500		
BM (30°-60°)	1928.0	10.5	B2/2500		
BH (60°-80°)	1088.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	127.2	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	1966.3	1959.7	1959.7	1969.7	1973.1	1983.2	1983.2	1986.5	1996.5	2013.3	2033.5
5°	1906.0	1902.7	1906.0	1919.4	1926.1	1946.2	1953.0	1956.3	1976.4	2003.3	2033.5
7.5°	1845.8	1842.4	1849.1	1869.2	1889.3	1919.4	1936.2	1939.6	1969.7	2006.5	2046.8
10°	1825.7	1822.3	1832.4	1849.1	1869.2	1902.7	1929.5	1932.9	1976.4	2019.9	2076.9
12.5°	1852.5	1849.1	1859.1	1876.0	1895.9	1919.4	1949.6	1953.0	2010.0	2066.8	2127.2
15°	1919.4	1919.4	1922.9	1932.9	1953.0	1973.1	1999.9	2003.3	2063.5	2130.5	2190.8
17.5°	2023.4	2016.6	2016.6	2013.3	2026.6	2036.7	2070.3	2073.5	2137.2	2197.5	2257.9
20°	2150.7	2147.3	2133.9	2117.1	2113.7	2120.5	2153.9	2157.4	2220.9	2271.2	2328.2
22.5°	2304.8	2308.1	2277.9	2241.0	2224.3	2234.4	2264.5	2267.9	2314.7	2358.4	2408.5
25°	2509.0	2499.0	2455.5	2401.8	2368.3	2368.3	2398.5	2398.5	2442.1	2468.8	2502.4
27.5°	2703.3	2683.3	2643.1	2566.0	2512.4	2522.5	2552.7	2552.7	2592.8	2602.9	2619.6
30°	2914.4	2894.3	2844.0	2746.9	2676.6	2669.9	2706.7	2703.3	2756.9	2753.6	2740.2
32.5°	3172.4	3162.3	3078.5	2954.6	2860.7	2837.4	2870.8	2874.2	2907.7	2897.7	2854.1
35°	3534.1	3530.7	3453.6	3235.9	3112.0	3068.4	3088.5	3088.5	3112.0	3085.3	3011.5
37.5°	3989.7	3996.3	3929.4	3607.8	3433.6	3359.9	3363.2	3359.9	3366.6	3336.4	3259.4
40°	4445.3	4462.0	4458.7	4070.1	3848.9	3721.7	3674.8	3668.2	3684.9	3671.4	3597.8
42.5°	5044.9	5085.2	4991.3	4639.5	4391.6	4177.3	4050.0	4033.2	4070.1	4086.9	4016.5
45°	5668.0	5654.6	5507.2	5252.6	5028.1	4753.5	4512.3	4485.5	4512.3	4562.5	4488.8
47.5°	5992.9	5982.8	5946.0	5818.7	5785.3	5470.3	5105.2	5081.7	5031.5	5101.9	5014.8
50°	6528.9	6538.9	6388.2	6374.8	6515.4	6341.3	5775.2	5721.6	5631.1	5688.0	5614.4
52.5°	6917.5	6873.9	6780.1	6897.4	7336.2	7242.5	6405.0	6381.5	6297.7	6284.4	6250.8
55°	7075.0	7075.0	7091.7	7363.0	7989.5	7865.5	7088.3	7111.8	6997.8	6904.1	6947.6
57.5°	7121.8	7141.9	7286.0	7734.9	8756.6	8351.2	7842.1	7875.5	7711.4	7523.8	7661.2
60°	6890.7	6951.0	7296.0	7945.9	9188.7	8867.2	8636.0	8646.0	8408.1	8133.5	8374.7
62.5°	6297.7	6371.5	6987.7	8033.0	9118.3	9396.4	9386.4	9409.7	9084.8	8743.2	9044.7
65°	5570.8	5644.6	6301.1	7788.4	9064.7	9774.9	10073.0	10136.7	9717.9	9259.0	9463.4
67.5°	4502.2	4599.4	5222.5	6964.4	8803.4	10086.5	10716.2	10783.3	10207.0	9527.1	9426.6
70°	3262.8	3309.7	3832.3	5292.8	7738.2	9915.6	11225.4	11222.0	10367.8	9506.9	8924.1
72.5°	1571.0	1608.0	2060.2	3286.2	5534.0	8414.8	10856.9	10920.6	10146.8	9215.5	7775.0
75°	646.5	683.4	834.0	1386.8	2904.3	5560.8	9202.2	9352.8	9215.5	8270.8	6083.3
77.5°	402.0	415.4	489.1	716.8	1326.5	2596.1	6441.8	6646.1	7302.7	6626.0	4016.5
80°	301.4	311.5	365.2	502.5	837.5	958.1	3199.1	3457.1	4425.2	3802.1	1818.9
82.5°	251.2	254.6	291.4	365.2	569.5	549.3	1025.1	1142.3	2063.5	1450.5	626.4
85°	234.5	241.3	261.2	261.2	361.7	345.0	425.4	445.6	599.7	495.8	217.8
87.5°	120.6	113.8	231.2	204.4	187.6	167.5	181.0	194.3	224.4	237.8	97.1
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°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	2040.1	2050.1	2066.8	2083.6	2103.7	2127.2	2140.6	2157.4	2170.8	2164.0	2160.7
5°	2050.1	2066.8	2103.7	2137.2	2177.4	2224.3	2254.4	2288.0	2314.7	2321.4	2311.4
7.5°	2066.8	2097.0	2147.3	2207.6	2261.1	2321.4	2368.3	2415.2	2448.7	2455.5	2455.5
10°	2107.1	2140.6	2207.6	2288.0	2351.6	2415.2	2468.8	2505.8	2535.8	2549.2	2549.2
12.5°	2164.0	2204.2	2284.6	2381.8	2452.1	2512.4	2542.6	2559.3	2572.7	2586.0	2589.5
15°	2231.0	2274.6	2371.7	2475.6	2549.2	2579.4	2579.4	2576.0	2576.0	2582.8	2589.5
17.5°	2298.0	2344.9	2445.4	2555.9	2602.9	2586.0	2562.6	2552.7	2545.8	2542.6	2552.7
20°	2368.3	2415.2	2515.8	2619.6	2606.2	2535.8	2502.4	2478.9	2458.8	2448.7	2462.1
22.5°	2445.4	2488.9	2592.8	2663.2	2562.6	2455.5	2391.8	2355.0	2321.4	2301.3	2314.7
25°	2535.8	2579.4	2679.9	2676.6	2485.6	2334.9	2234.4	2174.0	2137.2	2117.1	2117.1
27.5°	2643.1	2679.9	2777.1	2643.1	2378.3	2174.0	2026.6	1969.7	1959.7	1942.9	1942.9
30°	2753.6	2783.7	2867.5	2566.0	2231.0	1963.1	1802.2	1775.5	1778.7	1762.1	1765.4
32.5°	2867.5	2897.7	2921.0	2452.1	2040.1	1725.2	1618.0	1597.9	1594.5	1581.1	1567.8
35°	3028.2	3071.9	2927.8	2298.0	1808.9	1527.6	1450.5	1430.4	1410.3	1363.4	1363.4
37.5°	3272.9	3319.8	2911.0	2107.1	1571.0	1373.5	1303.1	1276.2	1242.9	1196.0	1179.1
40°	3607.8	3607.8	2874.2	1892.7	1380.2	1249.5	1182.5	1149.0	1112.1	1065.3	1055.2
42.5°	4003.0	3909.3	2817.2	1675.0	1239.4	1165.8	1105.4	1068.5	1025.1	971.5	964.8
45°	4465.4	4210.8	2736.8	1480.7	1135.6	1115.5	1078.6	1015.0	941.3	884.4	874.3
47.5°	4914.3	4482.2	2659.8	1343.4	1048.6	1095.5	1065.3	958.1	857.5	777.2	767.1
50°	5406.7	4723.3	2569.3	1229.3	981.4	1082.0	1048.6	874.3	763.7	706.8	700.2
52.5°	5899.1	4967.9	2472.2	1108.8	924.6	1055.2	1008.4	814.0	760.5	683.4	673.4
55°	6418.3	5252.6	2358.4	974.8	857.5	1001.6	954.7	810.7	783.8	683.4	659.9
57.5°	6924.2	5567.6	2174.0	844.1	783.8	921.2	934.6	790.6	733.6	676.7	649.9
60°	7483.6	5902.5	1869.2	733.6	720.2	854.2	907.8	747.0	676.7	656.5	643.2
62.5°	7932.4	6204.0	1460.6	656.5	666.6	800.7	874.3	720.2	653.3	636.4	633.1
65°	8126.8	6210.7	1048.6	589.6	613.1	750.4	840.9	696.7	633.1	626.4	623.1
67.5°	7922.4	5869.0	737.0	526.0	556.1	703.5	797.3	673.4	613.1	616.3	609.6
70°	7262.6	5148.8	539.3	465.7	502.5	653.3	750.4	643.2	589.6	596.2	586.1
72.5°	6076.7	4013.1	432.1	415.4	458.9	599.7	703.5	609.6	552.8	556.1	536.0
75°	4488.8	2659.8	361.7	371.8	408.6	549.3	643.2	566.2	512.5	499.1	485.7
77.5°	2669.9	1366.8	298.2	324.9	365.2	489.1	576.2	512.5	468.9	445.6	435.5
80°	1102.1	552.8	244.5	274.7	318.3	435.5	509.1	448.8	418.7	395.3	381.9
82.5°	438.7	271.3	194.3	224.4	268.0	378.6	445.6	395.3	365.2	348.4	311.5
85°	167.5	134.0	130.7	157.5	201.0	291.4	368.5	331.6	308.2	264.6	254.6
87.5°	66.9	60.3	60.3	77.0	113.8	184.2	264.6	231.2	241.3	190.9	194.3
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)