

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: P399557

Luminaire Tested: **ARCH-L-PA3-160-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399557
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-PA3-160-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20843 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

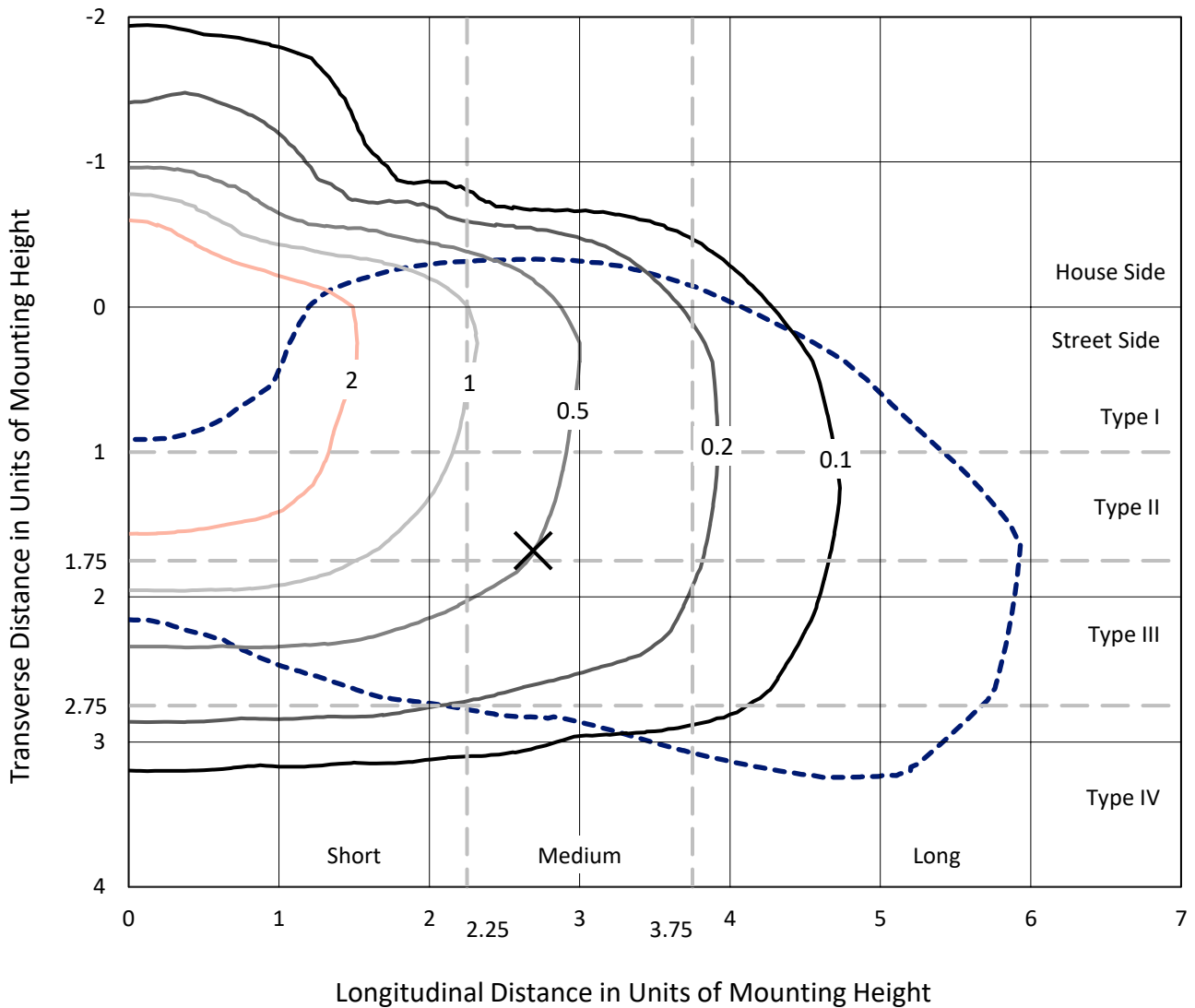
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

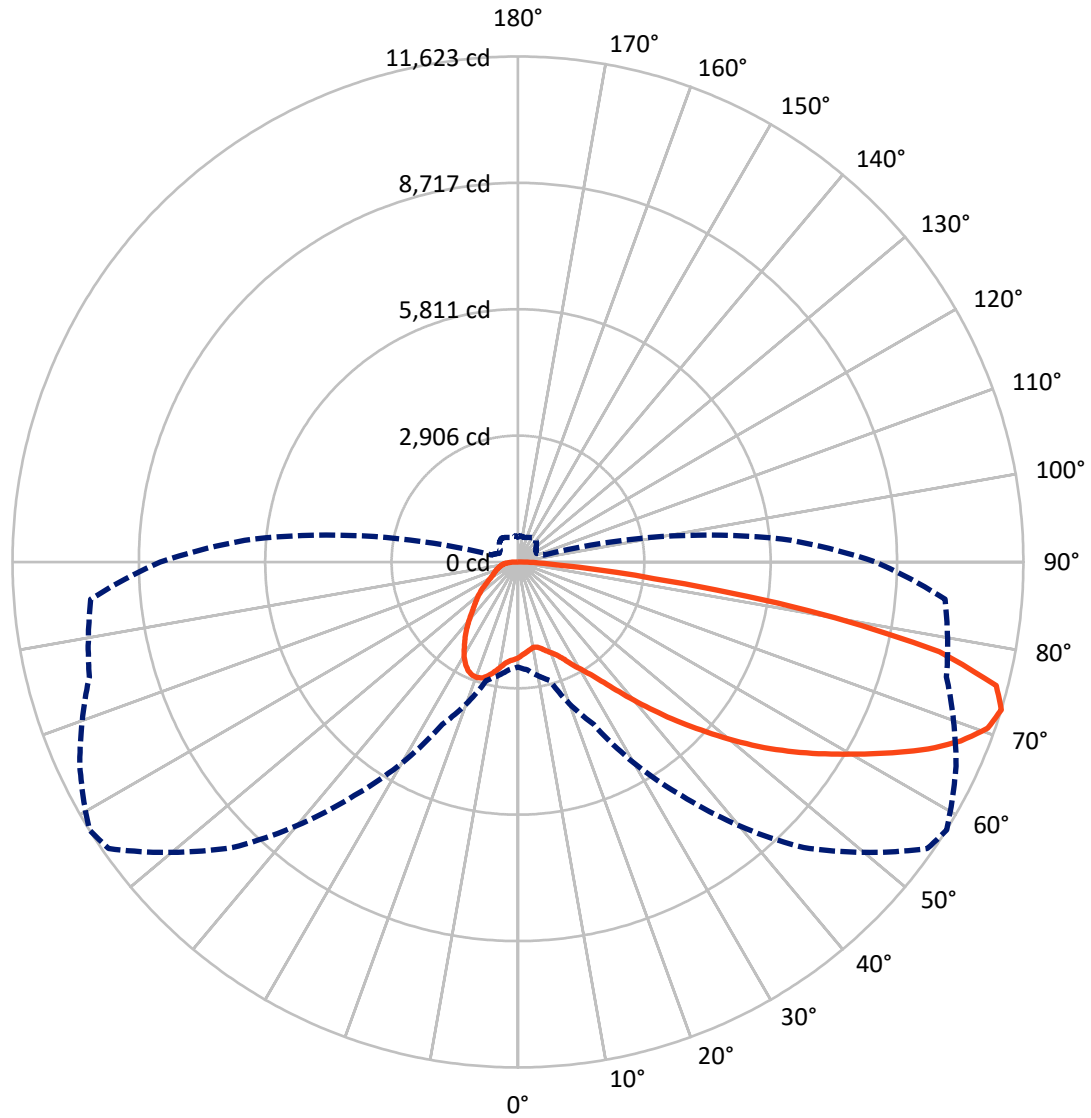
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399557
CATALOG NUMBER: ARCH-L-PA3-160-727-U-T3

Luminous Intensity Polar Plot



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

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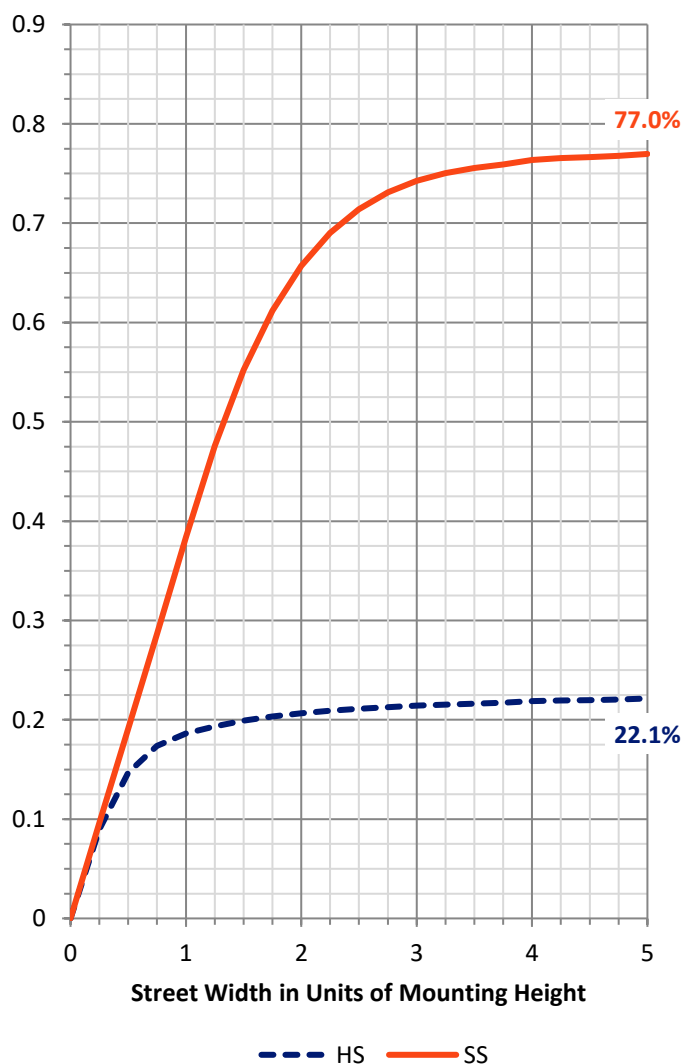
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4727.0	0.0	4727.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16116.0	0.0	16116.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	20843.0	0.0	20843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.0
10°-20°	672.6	3.2
20°-30°	1204.8	5.8
30°-40°	1812.4	8.7
40°-50°	2934.8	14.1
50°-60°	4417.9	21.2
60°-70°	5199.4	24.9
70°-80°	3686.8	17.7
80°-90°	702.5	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°	20843.0	100.0
0°-180°	20843.0	100.0

Coefficient of Utilization

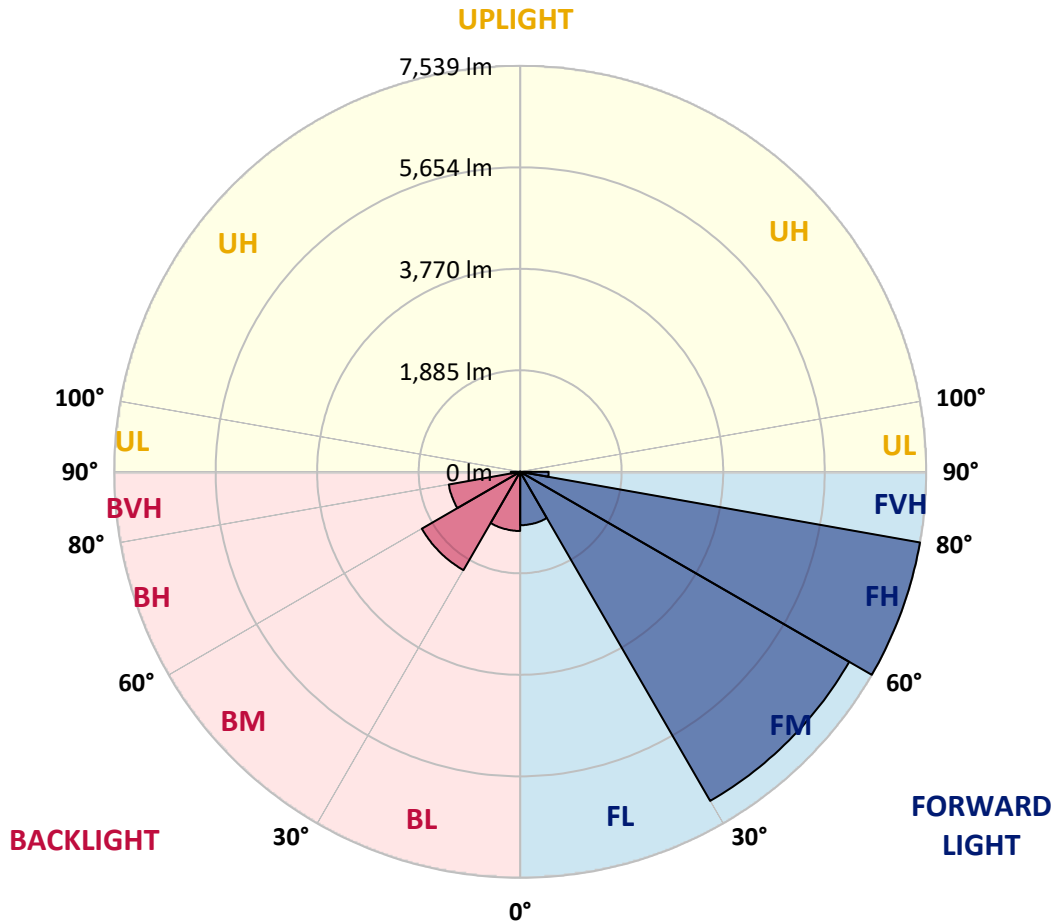


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.2	4.8			
FM (30°-60°)	7056.0	33.9			
FH (60°-80°)	7539.0	36.2			G4/12000
FVH (80°-90°)	529.9	2.5			G4/750
BL (0°-30°)	1098.0	5.3	B3/2500		
BM (30°-60°)	2109.1	10.1	B2/2500		
BH (60°-80°)	1347.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	172.6	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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CATALOG NUMBER: ARCH-L-PA3-160-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5
2.5°	2115.9	2104.9	2107.7	2107.7	2118.7	2124.2	2127.0	2135.2	2140.7	2154.5	2173.7
5°	2016.9	2008.6	2011.4	2014.1	2033.4	2052.7	2069.2	2080.2	2096.7	2118.7	2146.2
7.5°	1945.4	1939.8	1942.6	1948.1	1964.6	1986.6	2014.1	2030.6	2055.4	2096.7	2143.5
10°	1893.1	1893.1	1895.8	1906.8	1923.3	1950.9	1972.9	1992.1	2041.7	2115.9	2187.5
12.5°	1851.8	1851.8	1860.1	1882.1	1909.6	1937.1	1989.4	2011.4	2077.4	2179.2	2264.5
15°	1849.0	1851.8	1854.5	1873.8	1904.1	1964.6	2041.7	2074.7	2154.5	2275.5	2374.6
17.5°	1893.1	1895.8	1884.8	1890.3	1926.1	2011.4	2113.2	2151.7	2253.5	2385.6	2487.4
20°	2027.9	2027.9	1994.9	1964.6	1989.4	2082.9	2198.5	2237.0	2349.8	2495.7	2597.5
22.5°	2303.1	2316.8	2239.8	2173.7	2135.2	2187.5	2292.0	2333.3	2459.9	2616.7	2718.5
25°	2636.0	2649.7	2545.2	2451.6	2380.1	2371.8	2440.6	2484.7	2589.2	2751.6	2836.9
27.5°	2957.9	2933.2	2836.9	2748.8	2658.0	2583.7	2636.0	2674.5	2795.6	2919.4	2971.7
30°	3211.1	3191.8	3098.3	3035.0	2949.7	2853.4	2823.1	2864.4	2963.4	3079.0	3106.5
32.5°	3491.7	3478.0	3384.4	3301.9	3230.3	3139.5	3073.5	3092.7	3147.8	3230.3	3246.8
35°	3849.4	3879.7	3780.6	3612.8	3533.0	3444.9	3398.2	3403.7	3444.9	3497.2	3469.7
37.5°	4226.4	4262.2	4267.7	4003.5	3896.2	3816.4	3766.9	3786.1	3835.7	3871.4	3786.1
40°	4925.3	4889.5	4746.4	4551.1	4386.0	4308.9	4240.1	4237.4	4273.2	4336.5	4182.4
42.5°	5852.6	5819.5	5530.6	5277.5	5016.1	4928.0	4793.2	4735.4	4751.9	4831.7	4617.1
45°	6741.3	6727.6	6496.4	6202.0	5888.3	5717.7	5409.6	5269.2	5255.5	5318.8	5062.9
47.5°	7531.0	7470.5	7302.6	7074.3	7041.2	6595.5	6028.7	5838.8	5772.8	5808.5	5522.4
50°	8375.7	8169.4	7938.2	7797.9	8037.3	7621.8	6653.3	6455.2	6292.8	6317.6	6020.4
52.5°	8824.2	8477.5	8326.2	8367.5	8689.4	8529.8	7332.9	7090.8	6829.4	6865.1	6515.7
55°	8439.0	8436.3	8502.3	8758.2	9206.7	9022.4	7979.5	7707.1	7420.9	7429.2	7085.3
57.5°	7910.7	8018.0	8359.2	8923.3	9847.8	9539.6	8615.1	8326.2	8064.8	8023.5	7731.9
60°	7429.2	7547.5	8042.8	8895.8	10070.7	10012.9	9220.5	8967.3	8755.5	8634.4	8411.5
62.5°	6697.3	6785.3	7487.0	8719.7	9883.6	10354.1	9834.1	9660.7	9501.1	9250.7	9143.4
65°	5836.1	5866.3	6606.5	8139.1	9649.7	10486.2	10444.9	10367.9	10213.8	9845.1	9867.1
67.5°	4903.3	4963.8	5613.2	7211.8	9137.9	10425.6	10918.2	10981.5	10799.9	10246.8	10329.3
70°	3910.0	3984.3	4476.8	5929.6	8268.4	10164.2	11355.7	11457.5	11108.0	10378.9	10414.6
72.5°	2418.6	2490.2	2820.3	4119.1	6554.2	9286.5	11490.5	11622.6	11116.3	10202.8	9858.8
75°	836.5	844.7	1103.4	1975.6	3890.7	7011.0	11050.2	11361.2	10766.8	9561.7	8579.4
77.5°	382.5	396.2	489.8	814.5	1725.2	3783.4	9124.2	9902.9	9704.7	8560.1	6603.7
80°	264.1	269.7	338.4	487.0	996.1	1331.8	5759.0	6774.3	7121.0	6628.5	4231.9
82.5°	198.1	203.6	261.4	330.2	718.2	646.6	2193.0	3147.8	3912.7	3841.2	1769.3
85°	189.9	187.1	203.6	220.1	478.8	385.2	709.9	974.1	1527.1	1307.0	445.8
87.5°	82.5	90.8	209.1	123.8	250.4	178.9	308.2	360.5	465.0	404.5	159.6
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°	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5	2198.5
2.5°	2182.0	2187.5	2204.0	2228.8	2242.5	2270.0	2289.3	2300.3	2308.6	2311.3	2311.3
5°	2162.7	2173.7	2209.5	2250.8	2289.3	2347.1	2399.4	2429.6	2451.6	2459.9	2462.6
7.5°	2168.2	2195.7	2248.0	2308.6	2358.1	2432.4	2495.7	2556.2	2605.7	2625.0	2625.0
10°	2220.5	2259.0	2330.6	2410.4	2473.6	2550.7	2616.7	2669.0	2726.8	2759.8	2765.3
12.5°	2300.3	2347.1	2440.6	2528.7	2600.2	2660.8	2721.3	2759.8	2787.3	2812.1	2817.6
15°	2413.1	2470.9	2564.5	2655.3	2718.5	2757.1	2773.6	2773.6	2770.8	2773.6	2779.1
17.5°	2525.9	2581.0	2674.5	2765.3	2795.6	2773.6	2754.3	2748.8	2746.1	2740.5	2743.3
20°	2636.0	2688.3	2768.1	2836.9	2812.1	2735.0	2710.3	2707.5	2699.3	2693.8	2688.3
22.5°	2746.1	2784.6	2850.6	2875.4	2776.3	2666.3	2636.0	2619.5	2608.5	2594.7	2581.0
25°	2872.6	2883.6	2933.2	2894.6	2688.3	2539.7	2495.7	2470.9	2459.9	2446.1	2435.1
27.5°	2990.9	2990.9	2999.2	2864.4	2558.9	2371.8	2305.8	2261.8	2259.0	2256.3	2253.5
30°	3098.3	3084.5	3057.0	2773.6	2391.1	2165.5	2066.4	2022.4	2038.9	2052.7	2055.4
32.5°	3224.8	3197.3	3120.3	2649.7	2190.2	1934.3	1813.3	1794.0	1813.3	1829.8	1818.8
35°	3422.9	3373.4	3186.3	2506.7	1997.6	1722.5	1606.9	1579.4	1573.9	1571.1	1549.1
37.5°	3706.3	3621.0	3238.6	2352.6	1807.8	1535.4	1450.1	1392.3	1340.0	1285.0	1276.7
40°	4053.0	3907.2	3274.4	2176.5	1606.9	1378.5	1287.7	1213.4	1125.4	1029.1	1018.1
42.5°	4432.8	4215.4	3290.9	1981.1	1430.8	1249.2	1136.4	1042.8	943.8	869.5	855.7
45°	4842.7	4548.3	3277.1	1794.0	1287.7	1139.1	1012.6	910.8	831.0	778.7	767.7
47.5°	5241.7	4930.8	3238.6	1645.4	1177.7	1045.6	916.3	822.7	762.2	704.4	690.6
50°	5753.5	5296.7	3191.8	1529.9	1056.6	952.0	855.7	756.7	687.9	660.4	654.9
52.5°	6320.3	5662.7	3136.8	1384.0	938.3	877.7	817.2	729.2	707.1	654.9	646.6
55°	6933.9	6097.4	3125.8	1199.7	833.7	825.5	778.7	753.9	759.4	654.9	641.1
57.5°	7580.5	6562.5	3150.5	1015.3	748.4	778.7	795.2	775.9	767.7	668.6	641.1
60°	8254.7	7011.0	3076.2	844.7	682.4	740.2	814.5	764.9	704.4	663.1	643.9
62.5°	8909.5	7387.9	2754.3	723.7	632.9	729.2	803.5	723.7	654.9	654.9	646.6
65°	9385.6	7555.8	2154.5	635.6	599.8	715.4	784.2	696.1	641.1	660.4	649.4
67.5°	9440.6	7382.4	1447.3	566.8	572.3	690.6	740.2	671.4	627.4	676.9	660.4
70°	9102.1	6931.2	886.0	514.5	536.6	646.6	701.6	646.6	608.1	663.1	638.4
72.5°	8224.4	6089.2	624.6	470.5	498.0	605.3	665.9	624.6	580.6	599.8	575.1
75°	6746.8	4718.9	495.3	429.2	459.5	566.8	635.6	591.6	547.6	539.3	522.8
77.5°	4779.5	3024.0	399.0	396.2	418.2	520.0	594.3	553.1	509.0	492.5	481.5
80°	2748.8	1483.1	343.9	357.7	379.7	473.3	544.8	509.0	467.8	443.0	426.5
82.5°	1051.1	517.3	302.7	310.9	335.7	423.7	495.3	465.0	423.7	445.8	374.2
85°	341.2	283.4	247.6	255.9	280.7	352.2	437.5	412.7	366.0	324.7	299.9
87.5°	151.3	154.1	132.1	145.8	176.1	233.9	319.2	302.7	266.9	222.9	214.6
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)