

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: P399629

Luminaire Tested: **ARCH-L-PA3-170-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399629
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-PA3-170-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21844 lumens
Efficiency: N/A
Efficacy: 126.3 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

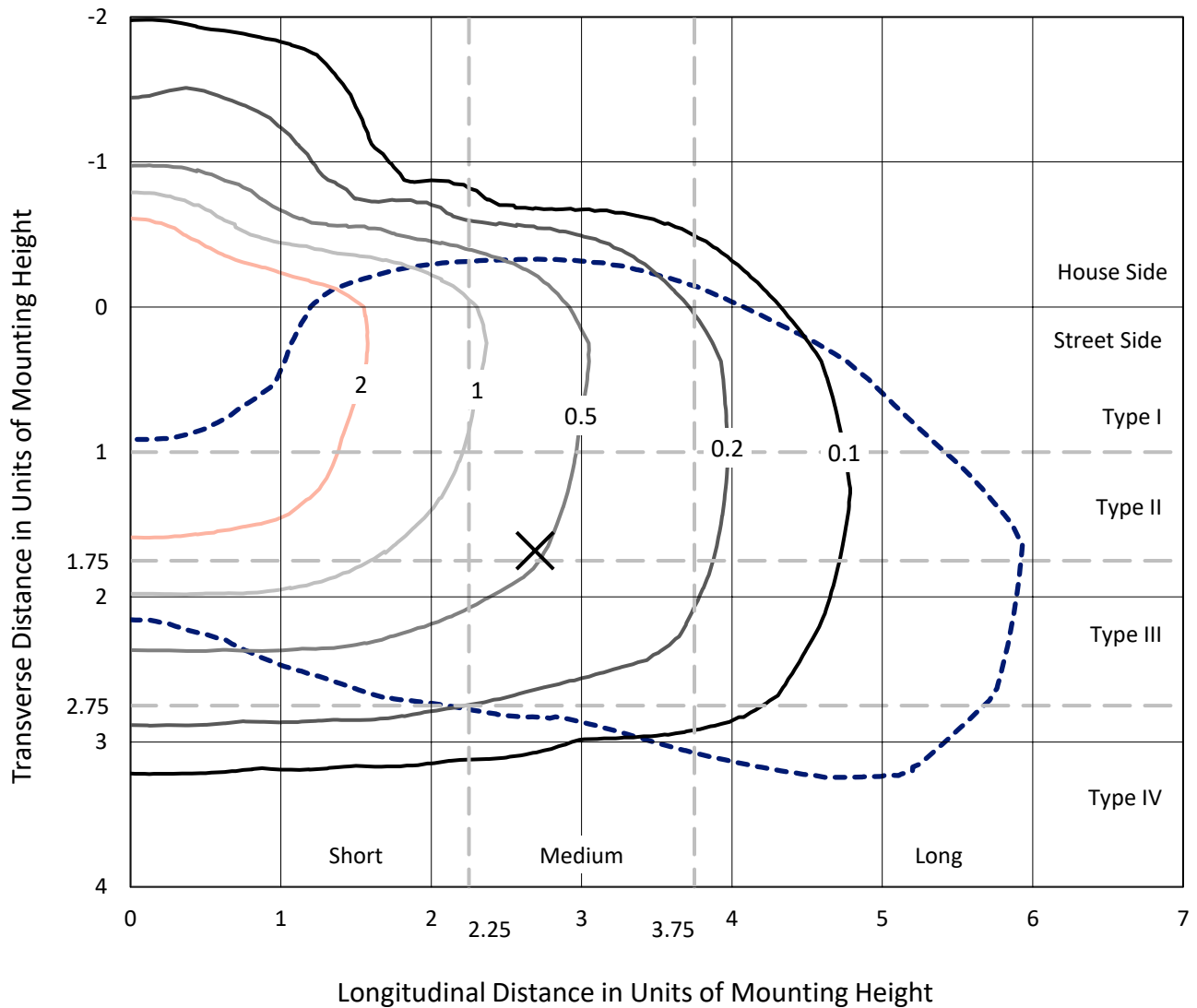
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

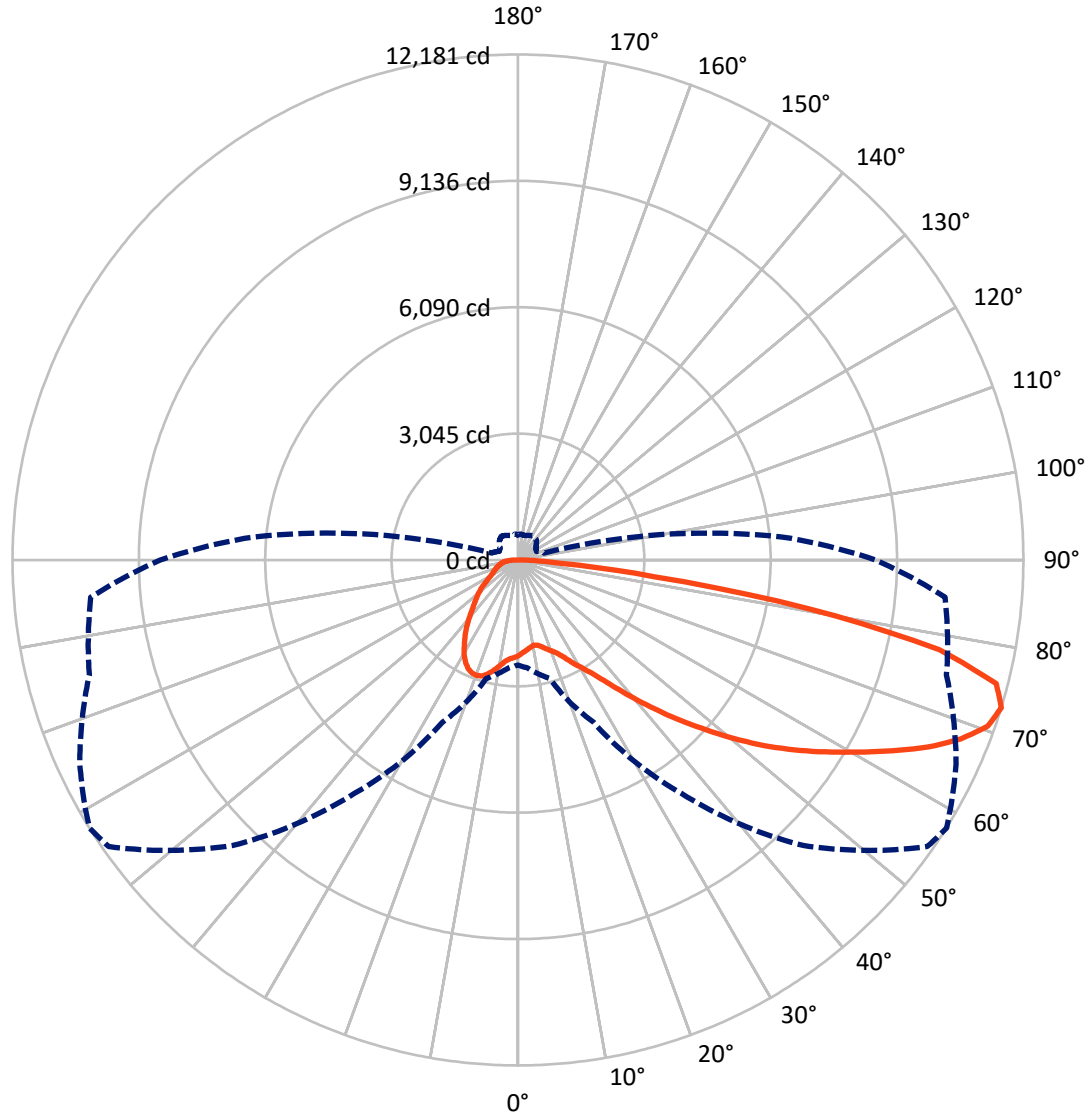
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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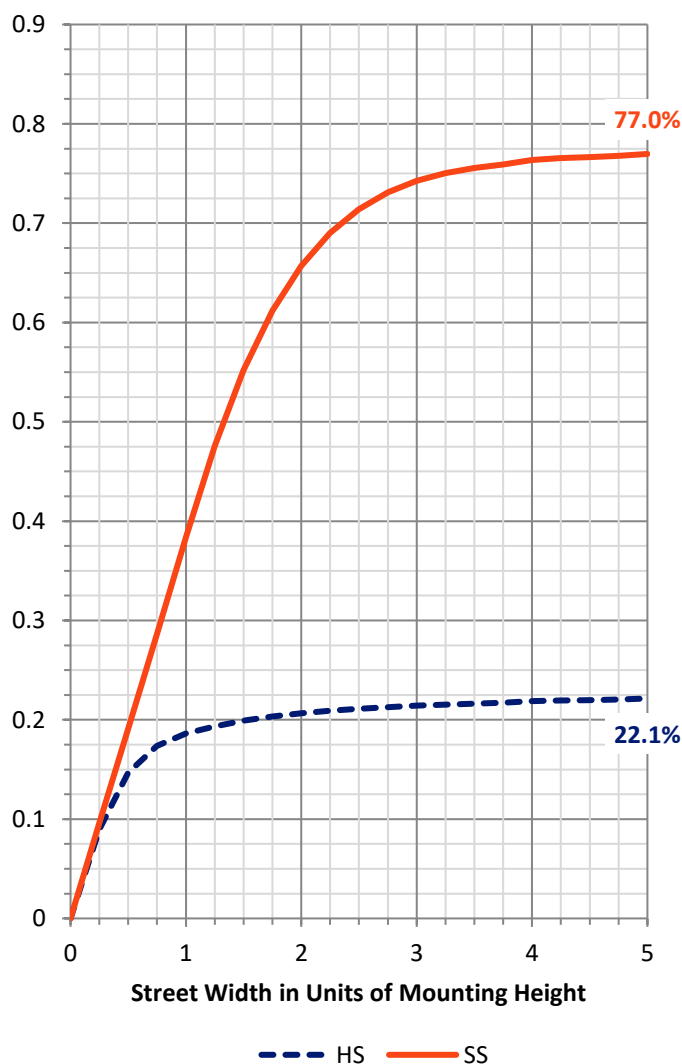
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4954.0	0.0	4954.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16890.0	0.0	16890.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	21844.0	0.0	21844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.0
10°-20°	704.9	3.2
20°-30°	1262.7	5.8
30°-40°	1899.4	8.7
40°-50°	3075.8	14.1
50°-60°	4630.1	21.2
60°-70°	5449.1	24.9
70°-80°	3863.9	17.7
80°-90°	736.3	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°	21844.0	100.0
0°-180°	21844.0	100.0

Coefficient of Utilization



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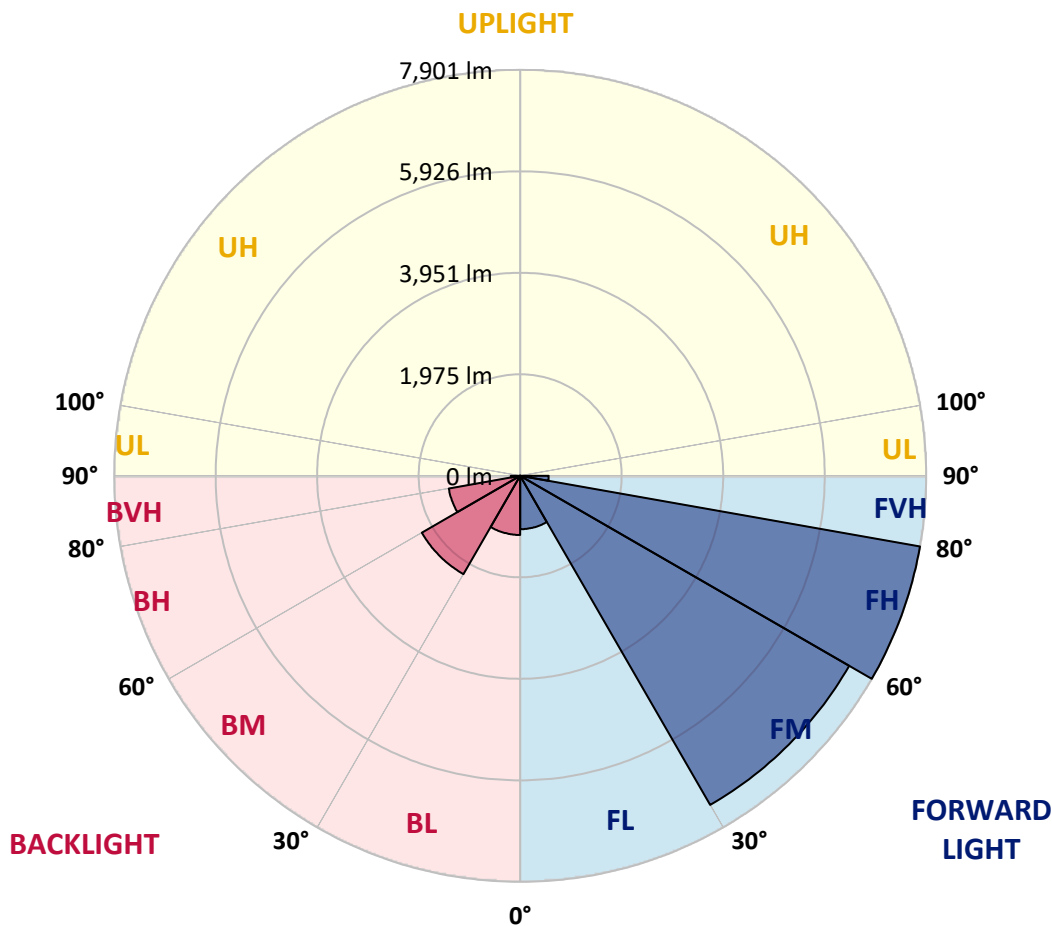
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.8	4.8			
FM (30°-60°)	7394.8	33.9			
FH (60°-80°)	7901.1	36.2			G4/12000
FVH (80°-90°)	555.4	2.5			G4/750
BL (0°-30°)	1150.7	5.3	B3/2500		
BM (30°-60°)	2210.4	10.1	B2/2500		
BH (60°-80°)	1411.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	180.9	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°	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1
2.5°	2217.6	2206.0	2208.9	2208.9	2220.5	2226.2	2229.1	2237.8	2243.5	2257.9	2278.1
5°	2113.8	2105.1	2108.0	2110.9	2131.1	2151.2	2168.5	2180.1	2197.4	2220.5	2249.3
7.5°	2038.8	2033.0	2035.9	2041.7	2059.0	2082.0	2110.9	2128.2	2154.1	2197.4	2246.4
10°	1984.0	1984.0	1986.9	1998.4	2015.7	2044.5	2067.6	2087.8	2139.7	2217.6	2292.5
12.5°	1940.7	1940.7	1949.4	1972.5	2001.3	2030.1	2084.9	2108.0	2177.2	2283.9	2373.3
15°	1937.8	1940.7	1943.6	1963.8	1995.5	2059.0	2139.7	2174.3	2257.9	2384.8	2488.6
17.5°	1984.0	1986.9	1975.3	1981.1	2018.6	2108.0	2214.7	2255.1	2361.8	2500.2	2606.9
20°	2125.3	2125.3	2090.7	2059.0	2084.9	2183.0	2304.1	2344.4	2462.7	2615.5	2722.2
22.5°	2413.7	2428.1	2347.3	2278.1	2237.8	2292.5	2402.1	2445.4	2578.0	2742.4	2849.1
25°	2762.6	2777.0	2667.4	2569.4	2494.4	2485.8	2557.8	2604.0	2713.6	2883.7	2973.1
27.5°	3100.0	3074.0	2973.1	2880.8	2785.7	2707.8	2762.6	2803.0	2929.8	3059.6	3114.4
30°	3365.3	3345.1	3247.0	3180.7	3091.3	2990.4	2958.7	3001.9	3105.7	3226.9	3255.7
32.5°	3659.4	3645.0	3547.0	3460.4	3385.5	3290.3	3221.1	3241.3	3299.0	3385.5	3402.8
35°	4034.3	4066.0	3962.2	3786.3	3702.7	3610.4	3561.4	3567.1	3610.4	3665.2	3636.3
37.5°	4429.4	4466.9	4472.6	4195.8	4083.3	3999.7	3947.8	3968.0	4019.9	4057.4	3968.0
40°	5161.8	5124.3	4974.4	4769.6	4596.6	4515.9	4443.8	4440.9	4478.4	4544.7	4383.2
42.5°	6133.6	6099.0	5796.2	5530.9	5257.0	5164.7	5023.4	4962.9	4980.2	5063.8	4838.9
45°	7065.1	7050.7	6808.4	6499.9	6171.1	5992.3	5669.4	5522.3	5507.9	5574.2	5306.0
47.5°	7892.7	7829.2	7653.3	7414.0	7379.4	6912.2	6318.2	6119.2	6050.0	6087.5	5787.6
50°	8778.0	8561.7	8319.5	8172.4	8423.3	7987.9	6972.8	6765.2	6595.0	6621.0	6309.5
52.5°	9248.0	8884.7	8726.1	8769.3	9106.7	8939.5	7685.1	7431.3	7157.3	7194.8	6828.6
55°	8844.3	8841.4	8910.6	9178.8	9648.9	9455.7	8362.7	8077.2	7777.3	7786.0	7425.5
57.5°	8290.6	8403.1	8760.7	9351.8	10320.8	9997.8	9028.9	8726.1	8452.1	8408.9	8103.2
60°	7786.0	7910.0	8429.1	9323.0	10554.3	10493.8	9663.3	9398.0	9175.9	9049.1	8815.5
62.5°	7018.9	7111.2	7846.6	9138.5	10358.3	10851.4	10306.3	10124.7	9957.4	9695.0	9582.5
65°	6116.3	6148.1	6923.8	8530.0	10113.1	10989.8	10946.5	10865.8	10704.3	10317.9	10341.0
67.5°	5138.8	5202.2	5882.8	7558.2	9576.8	10926.3	11442.5	11508.9	11318.5	10738.9	10825.4
70°	4097.7	4175.6	4691.8	6214.4	8665.5	10652.4	11901.0	12007.7	11641.5	10877.3	10914.8
72.5°	2534.8	2609.7	2955.8	4316.9	6869.0	9732.5	12042.3	12180.8	11650.2	10692.8	10332.3
75°	876.6	885.3	1156.4	2070.5	4077.6	7347.7	11580.9	11906.8	11283.9	10020.9	8991.4
77.5°	400.8	415.3	513.3	853.6	1808.1	3965.1	9562.4	10378.4	10170.8	8971.2	6920.9
80°	276.8	282.6	354.7	510.4	1043.9	1395.7	6035.6	7099.7	7463.0	6946.8	4435.1
82.5°	207.6	213.4	274.0	346.0	752.6	677.7	2298.3	3299.0	4100.6	4025.6	1854.2
85°	199.0	196.1	213.4	230.7	501.8	403.7	744.0	1020.8	1600.5	1369.8	467.2
87.5°	86.5	95.2	219.2	129.8	262.4	187.4	323.0	377.8	487.3	423.9	167.3
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°	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1	2304.1
2.5°	2286.8	2292.5	2309.8	2335.8	2350.2	2379.1	2399.2	2410.8	2419.4	2422.3	2422.3
5°	2266.6	2278.1	2315.6	2358.9	2399.2	2459.8	2514.6	2546.3	2569.4	2578.0	2580.9
7.5°	2272.4	2301.2	2356.0	2419.4	2471.3	2549.2	2615.5	2679.0	2730.9	2751.1	2751.1
10°	2327.1	2367.5	2442.5	2526.1	2592.4	2673.2	2742.4	2797.2	2857.7	2892.4	2898.1
12.5°	2410.8	2459.8	2557.8	2650.1	2725.1	2788.5	2852.0	2892.4	2921.2	2947.1	2952.9
15°	2529.0	2589.6	2687.6	2782.8	2849.1	2889.5	2906.8	2906.8	2903.9	2906.8	2912.5
17.5°	2647.2	2704.9	2803.0	2898.1	2929.8	2906.8	2886.6	2880.8	2877.9	2872.2	2875.1
20°	2762.6	2817.4	2901.0	2973.1	2947.1	2866.4	2840.4	2837.6	2828.9	2823.1	2817.4
22.5°	2877.9	2918.3	2987.5	3013.5	2909.7	2794.3	2762.6	2745.3	2733.7	2719.3	2704.9
25°	3010.6	3022.1	3074.0	3033.7	2817.4	2661.7	2615.5	2589.6	2578.0	2563.6	2552.1
27.5°	3134.6	3134.6	3143.2	3001.9	2681.8	2485.8	2416.5	2370.4	2367.5	2364.6	2361.8
30°	3247.0	3232.6	3203.8	2906.8	2505.9	2269.5	2165.7	2119.5	2136.8	2151.2	2154.1
32.5°	3379.7	3350.9	3270.1	2777.0	2295.4	2027.2	1900.4	1880.2	1900.4	1917.7	1906.1
35°	3587.3	3535.4	3339.3	2627.1	2093.6	1805.2	1684.1	1655.2	1649.5	1646.6	1623.5
37.5°	3884.3	3795.0	3394.1	2465.6	1894.6	1609.1	1519.7	1459.2	1404.4	1346.7	1338.0
40°	4247.7	4094.9	3431.6	2281.0	1684.1	1444.7	1349.6	1271.7	1179.4	1078.5	1067.0
42.5°	4645.6	4417.8	3448.9	2076.3	1499.5	1309.2	1191.0	1092.9	989.1	911.2	896.8
45°	5075.3	4766.8	3434.5	1880.2	1349.6	1193.9	1061.2	954.5	870.9	816.1	804.6
47.5°	5493.5	5167.6	3394.1	1724.5	1234.2	1095.8	960.3	862.2	798.8	738.2	723.8
50°	6029.8	5551.1	3345.1	1603.3	1107.3	997.8	896.8	793.0	720.9	692.1	686.3
52.5°	6623.9	5934.7	3287.4	1450.5	983.3	919.9	856.5	764.2	741.1	686.3	677.7
55°	7266.9	6390.3	3275.9	1257.3	873.8	865.1	816.1	790.1	795.9	686.3	671.9
57.5°	7944.6	6877.6	3301.8	1064.1	784.4	816.1	833.4	813.2	804.6	700.7	671.9
60°	8651.1	7347.7	3224.0	885.3	715.2	775.7	853.6	801.7	738.2	695.0	674.8
62.5°	9337.4	7742.7	2886.6	758.4	663.3	764.2	842.0	758.4	686.3	686.3	677.7
65°	9836.3	7918.6	2257.9	666.1	628.6	749.8	821.9	729.6	671.9	692.1	680.6
67.5°	9894.0	7737.0	1516.8	594.0	599.8	723.8	775.7	703.6	657.5	709.4	692.1
70°	9539.3	7264.0	928.6	539.3	562.3	677.7	735.3	677.7	637.3	695.0	669.0
72.5°	8619.4	6381.6	654.6	493.1	521.9	634.4	697.9	654.6	608.5	628.6	602.7
75°	7070.8	4945.5	519.1	449.9	481.6	594.0	666.1	620.0	573.9	565.2	547.9
77.5°	5009.0	3169.2	418.1	415.3	438.3	545.0	622.9	579.6	533.5	516.2	504.6
80°	2880.8	1554.3	360.5	374.9	398.0	496.0	571.0	533.5	490.2	464.3	447.0
82.5°	1101.6	542.1	317.2	325.9	351.8	444.1	519.1	487.3	444.1	467.2	392.2
85°	357.6	297.0	259.5	268.2	294.1	369.1	458.5	432.6	383.5	340.3	314.3
87.5°	158.6	161.5	138.4	152.8	184.6	245.1	334.5	317.2	279.7	233.6	224.9
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)