

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: P399703

Luminaire Tested: **ARCH-L-PA3-180-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399703
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-PA3-180-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22273 lumens
Efficiency: N/A
Efficacy: 123.1 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

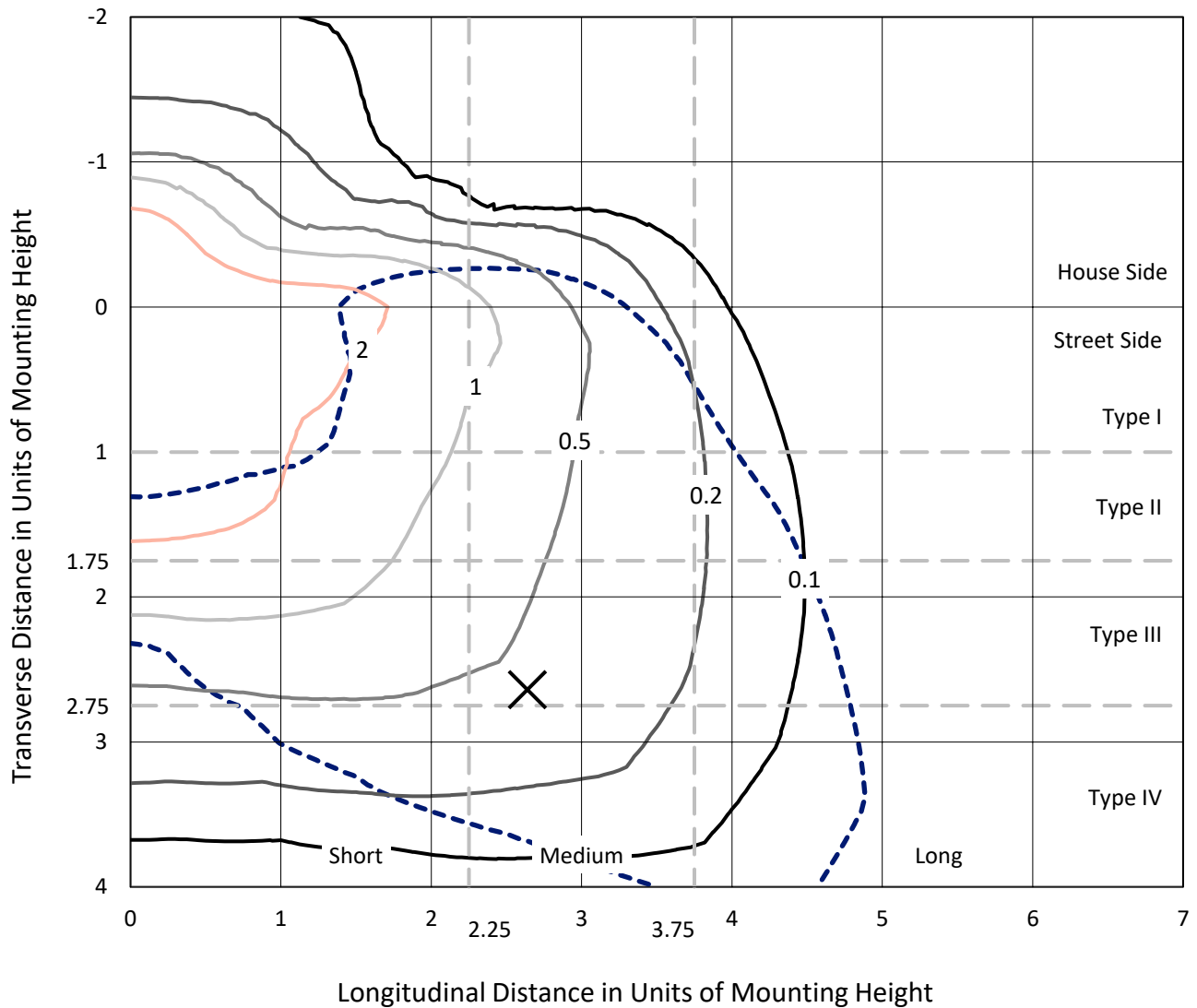
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

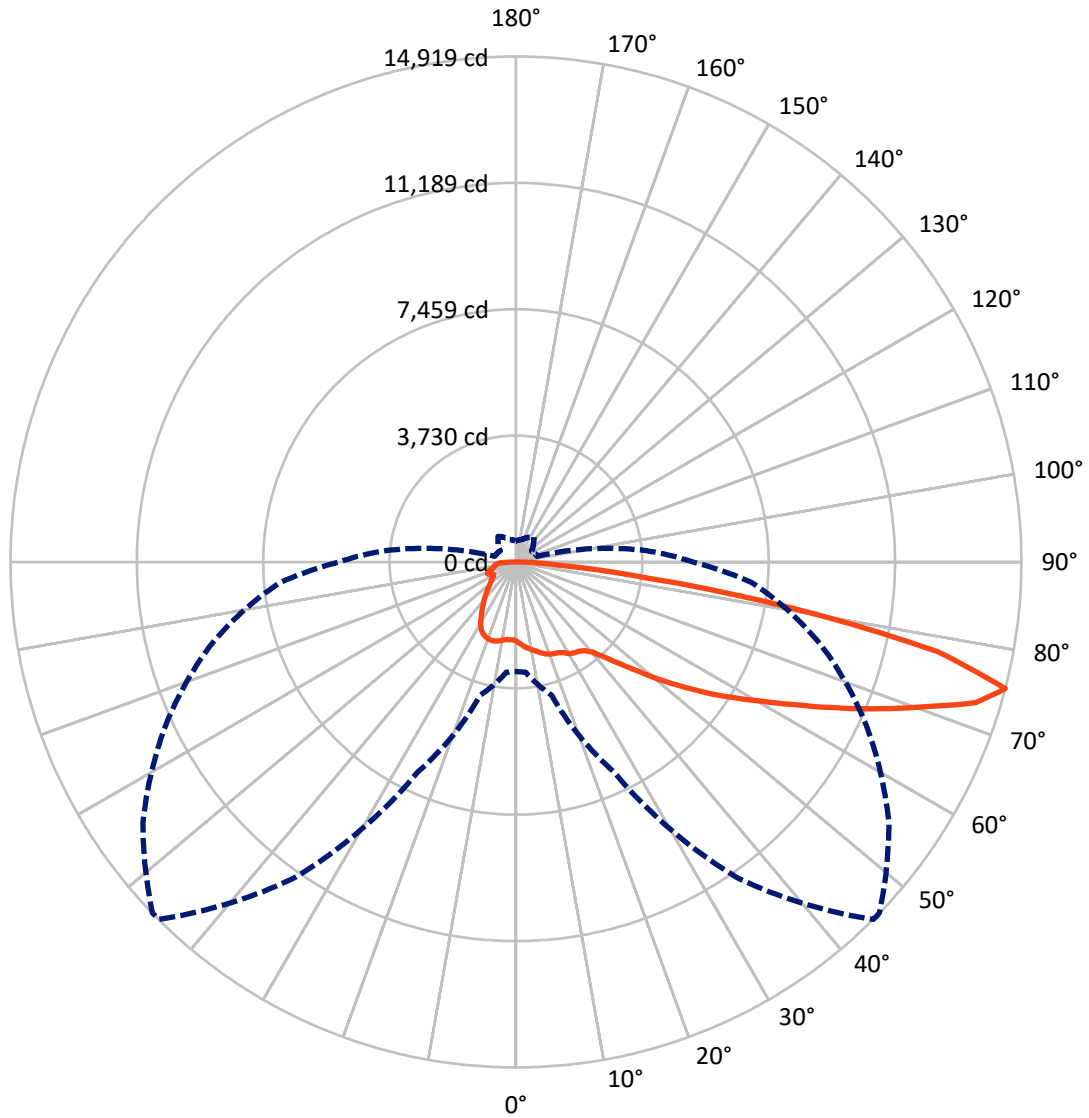
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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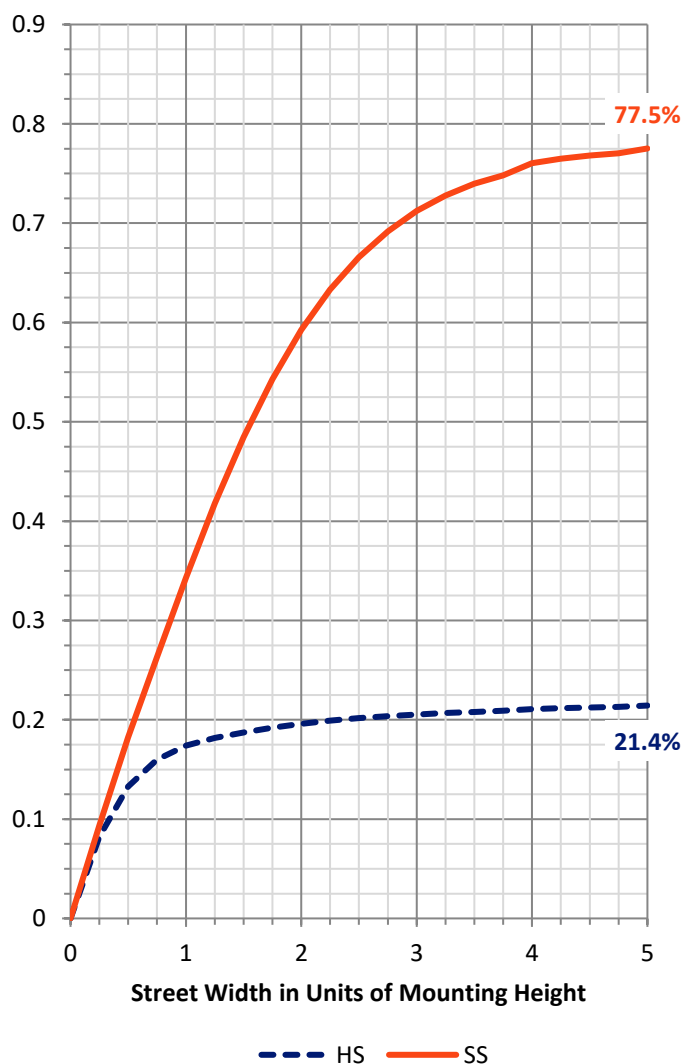
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4922.2	0.0	4922.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17350.8	0.0	17350.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	22273.0	0.0	22273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.0
10°-20°	736.2	3.3
20°-30°	1255.1	5.6
30°-40°	1758.6	7.9
40°-50°	2583.6	11.6
50°-60°	4111.8	18.5
60°-70°	5849.0	26.3
70°-80°	4897.4	22.0
80°-90°	849.9	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°	22273.0	100.0
0°-180°	22273.0	100.0

Coefficient of Utilization

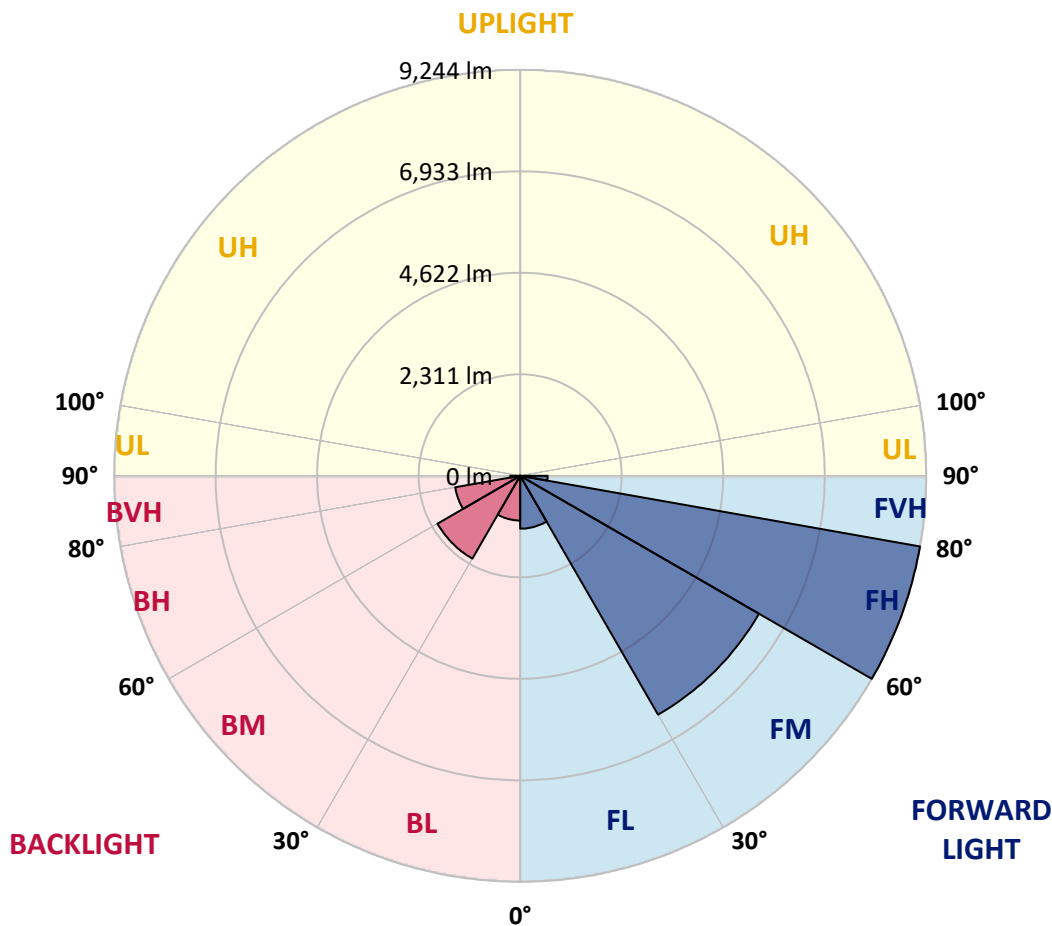


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.0	5.4			
FM (30°-60°)	6278.1	28.2			
FH (60°-80°)	9243.8	41.5			G4/12000
FVH (80°-90°)	624.8	2.8			G4/750
BL (0°-30°)	1018.7	4.6	B3/2500		
BM (30°-60°)	2175.8	9.8	B2/2500		
BH (60°-80°)	1502.6	6.7	B3/2500		G3/2500
BVH (80°-90°)	225.1	1.0			G3/500
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°	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2
2.5°	2473.1	2461.2	2455.2	2455.2	2431.4	2416.5	2413.6	2392.7	2374.9	2357.0	2342.1
5°	2615.9	2607.0	2589.1	2574.3	2541.5	2499.9	2493.9	2449.3	2404.6	2363.0	2327.2
7.5°	2746.9	2729.0	2708.2	2678.4	2624.9	2568.3	2559.4	2496.9	2434.4	2371.9	2324.3
10°	2857.0	2839.1	2809.4	2767.7	2699.3	2630.8	2621.9	2556.4	2490.9	2416.5	2348.1
12.5°	2961.1	2946.3	2901.6	2845.1	2764.7	2702.2	2693.3	2636.8	2568.3	2485.0	2395.7
15°	3050.4	3035.5	2987.9	2922.5	2830.2	2782.6	2770.7	2717.1	2648.7	2559.4	2467.1
17.5°	3095.1	3095.1	3044.5	2973.0	2886.7	2851.0	2842.1	2776.6	2714.1	2627.8	2535.6
20°	3109.9	3115.9	3080.2	2993.9	2919.5	2904.6	2895.7	2842.1	2770.7	2687.3	2601.0
22.5°	3118.9	3130.8	3101.0	3002.8	2940.3	2931.4	2925.4	2889.7	2833.2	2752.8	2666.5
25°	3148.6	3148.6	3127.8	3017.7	2967.1	2964.1	2964.1	2943.3	2904.6	2836.1	2749.8
27.5°	3193.3	3190.3	3163.5	3050.4	3026.6	3035.5	3032.6	3029.6	3002.8	2934.4	2842.1
30°	3267.7	3267.7	3237.9	3115.9	3101.0	3139.7	3142.7	3148.6	3107.0	2999.8	2925.4
32.5°	3380.8	3368.9	3339.1	3181.4	3157.6	3193.3	3199.2	3196.2	3160.5	3059.3	3023.6
35°	3729.0	3702.2	3595.0	3327.2	3208.2	3229.0	3232.0	3246.8	3252.8	3172.4	3154.6
37.5°	4339.0	4303.3	4139.6	3672.4	3368.9	3318.3	3315.3	3354.0	3386.7	3315.3	3315.3
40°	5002.7	4972.9	4877.7	4267.6	3666.5	3499.8	3487.9	3523.6	3565.3	3514.7	3529.6
42.5°	5574.1	5597.9	5606.8	4898.5	4112.9	3839.1	3806.3	3755.7	3821.2	3776.6	3836.1
45°	6002.6	5990.7	6154.4	5544.3	4690.2	4264.6	4220.0	4083.1	4166.4	4163.5	4294.4
47.5°	6458.0	6437.1	6505.6	6151.4	5347.9	4785.4	4717.0	4514.6	4639.6	4725.9	4943.2
50°	6889.5	6895.4	6919.2	6630.6	6062.2	5419.3	5333.0	5062.2	5240.8	5422.3	5728.8
52.5°	7452.0	7410.3	7380.5	7190.1	6862.7	6080.0	6023.5	5714.0	5963.9	6178.2	6585.9
55°	7943.0	7916.2	7898.4	7889.4	7532.3	6809.1	6749.6	6428.2	6788.3	6940.1	7541.2
57.5°	8466.8	8451.9	8547.1	8698.9	8556.1	7550.2	7487.7	7178.2	7579.9	7687.1	8576.9
60°	8850.7	8859.6	9121.5	9508.4	9410.2	8353.7	8279.3	8005.5	8350.7	8445.9	9612.5
62.5°	8853.7	8942.9	9550.1	10243.5	10356.6	9279.2	9192.9	8895.3	9142.3	9142.3	10541.1
65°	8008.5	8109.7	9472.7	10425.0	11314.8	10380.4	10297.0	9829.8	9922.1	9797.1	11413.0
67.5°	7166.3	7285.3	8568.0	10439.9	11987.4	11558.9	11460.7	10764.3	10606.5	10291.1	12023.1
70°	6606.8	6690.1	7761.5	10246.4	12392.2	12790.9	12716.5	11651.1	11145.2	10704.7	11895.2
72.5°	5562.2	5532.4	6556.2	9326.8	12618.3	14189.7	14127.2	12615.4	11612.4	10508.3	10145.3
75°	3229.0	3264.7	4068.2	6832.9	11374.4	14918.8	14912.8	13439.7	11407.1	9282.2	6990.7
77.5°	931.5	958.3	1336.2	3002.8	7193.0	12725.5	13133.2	12291.0	9642.3	6615.7	3624.8
80°	407.7	428.5	580.3	999.9	3098.0	8312.0	8669.1	8312.0	5815.1	3035.5	1422.5
82.5°	241.1	255.9	378.0	619.0	1485.0	3955.1	4437.2	3874.8	2508.8	1288.6	589.3
85°	136.9	142.8	217.2	392.8	934.5	1383.8	1553.5	1455.3	1223.1	732.1	309.5
87.5°	62.5	65.5	107.1	184.5	523.8	467.2	485.1	642.8	708.3	446.4	154.8
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°	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2	2339.2
2.5°	2336.2	2327.2	2309.4	2303.4	2294.5	2297.5	2300.5	2300.5	2303.4	2294.5	2294.5
5°	2312.4	2297.5	2279.6	2279.6	2279.6	2303.4	2324.3	2336.2	2342.1	2342.1	2336.2
7.5°	2303.4	2285.6	2264.8	2270.7	2276.7	2306.4	2345.1	2383.8	2395.7	2395.7	2389.7
10°	2321.3	2303.4	2288.6	2297.5	2312.4	2336.2	2365.9	2401.6	2431.4	2434.4	2431.4
12.5°	2363.0	2342.1	2327.2	2345.1	2363.0	2377.8	2392.7	2407.6	2446.3	2452.2	2452.2
15°	2431.4	2410.6	2392.7	2407.6	2413.6	2413.6	2413.6	2413.6	2452.2	2458.2	2458.2
17.5°	2499.9	2482.0	2464.1	2467.1	2449.3	2425.5	2416.5	2413.6	2434.4	2452.2	2455.2
20°	2565.3	2550.4	2532.6	2502.8	2458.2	2413.6	2398.7	2398.7	2410.6	2437.4	2437.4
22.5°	2636.8	2618.9	2589.1	2520.7	2446.3	2383.8	2368.9	2377.8	2392.7	2428.4	2425.5
25°	2717.1	2693.3	2642.7	2514.7	2407.6	2333.2	2336.2	2363.0	2389.7	2428.4	2428.4
27.5°	2806.4	2773.7	2672.5	2467.1	2321.3	2249.9	2276.7	2339.2	2377.8	2419.5	2425.5
30°	2904.6	2874.8	2696.3	2383.8	2181.4	2116.0	2181.4	2282.6	2342.1	2380.8	2389.7
32.5°	3023.6	2999.8	2717.1	2276.7	1999.9	1943.3	2038.6	2163.6	2258.8	2303.4	2312.4
35°	3172.4	3148.6	2743.9	2154.6	1830.3	1770.7	1857.0	1985.0	2110.0	2166.5	2184.4
37.5°	3365.9	3330.2	2767.7	2023.7	1687.4	1619.0	1660.6	1776.7	1889.8	1967.1	1988.0
40°	3612.9	3556.3	2788.5	1874.9	1562.4	1485.0	1499.9	1556.5	1621.9	1690.4	1717.2
42.5°	3961.1	3848.0	2791.5	1717.2	1434.4	1363.0	1357.1	1374.9	1374.9	1374.9	1383.8
45°	4446.2	4231.9	2797.5	1568.4	1303.5	1229.1	1211.2	1205.3	1160.6	1074.3	1068.4
47.5°	5059.2	4734.8	2824.2	1443.4	1166.6	1101.1	1077.3	1053.5	970.2	880.9	863.0
50°	5844.9	5318.1	2877.8	1324.3	1050.5	1005.9	976.1	919.6	827.3	758.9	741.0
52.5°	6749.6	6011.6	2928.4	1199.3	964.2	934.5	898.8	830.3	732.1	690.4	684.5
55°	7788.2	6785.3	3029.6	1089.2	889.8	869.0	836.3	770.8	696.4	666.6	663.7
57.5°	8850.7	7651.3	3172.4	991.0	818.4	806.5	806.5	750.0	702.3	690.4	690.4
60°	9874.4	8395.4	3062.3	898.8	752.9	758.9	815.4	800.5	764.8	779.7	788.6
62.5°	10669.0	8832.8	2485.0	824.4	705.3	758.9	904.7	904.7	863.0	857.1	857.1
65°	11008.3	8826.9	1746.9	767.8	687.5	833.3	1008.9	961.3	851.1	809.5	800.5
67.5°	10922.0	8440.0	1205.3	729.1	681.5	910.7	1056.5	922.6	797.6	761.9	735.1
70°	10163.1	7621.6	928.5	693.4	672.6	877.9	1041.6	877.9	755.9	723.2	699.4
72.5°	8198.9	6112.7	770.8	657.7	636.9	812.5	991.0	836.3	723.2	687.5	663.7
75°	5228.9	3845.0	651.7	610.1	568.4	729.1	922.6	794.6	687.5	639.8	622.0
77.5°	2514.7	1657.6	568.4	553.5	511.9	675.6	854.1	741.0	639.8	601.2	589.3
80°	1017.8	758.9	494.0	497.0	470.2	642.8	806.5	690.4	592.2	550.6	529.7
82.5°	529.7	440.5	416.6	428.5	428.5	613.1	770.8	648.8	550.6	532.7	464.3
85°	285.7	273.8	321.4	345.2	372.0	553.5	717.2	604.1	502.9	431.5	416.6
87.5°	139.9	178.6	181.5	208.3	258.9	443.4	604.1	505.9	419.6	348.2	342.2
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)