

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: P399577

Luminaire Tested: **ARCH-L-PA3-160-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399577
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-PA3-160-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24820 lumens
Efficiency: N/A
Efficacy: 153.2 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

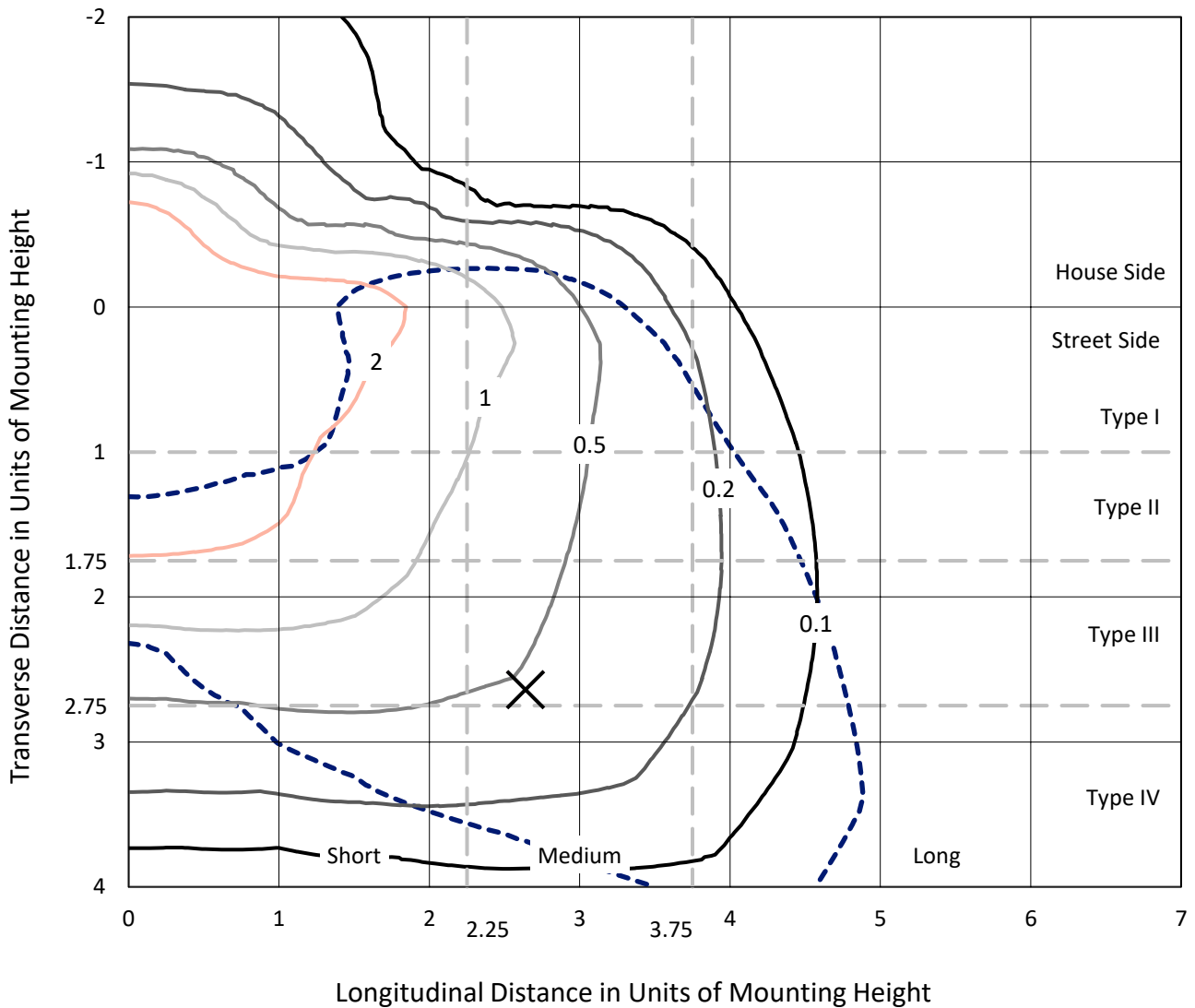
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

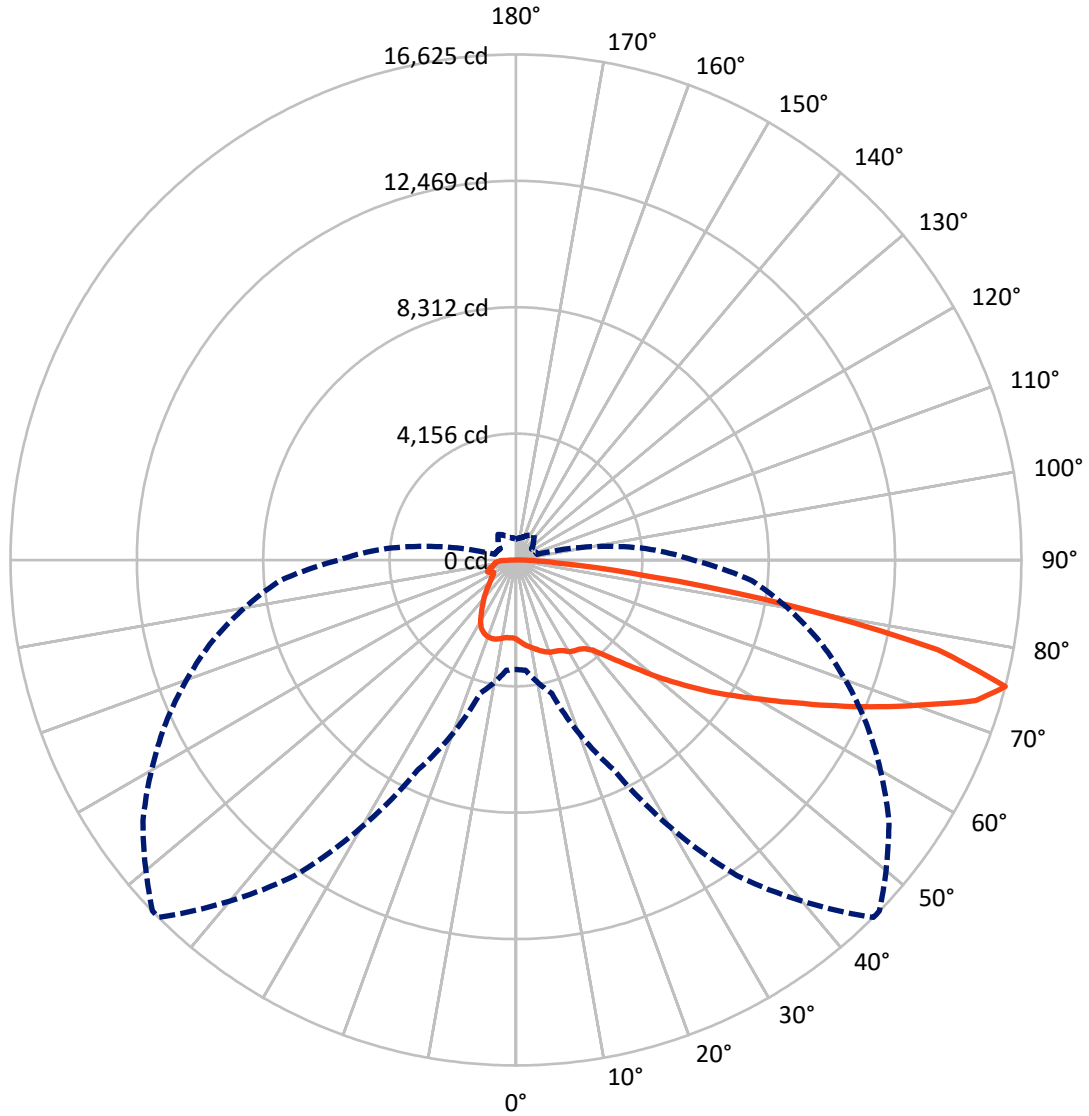
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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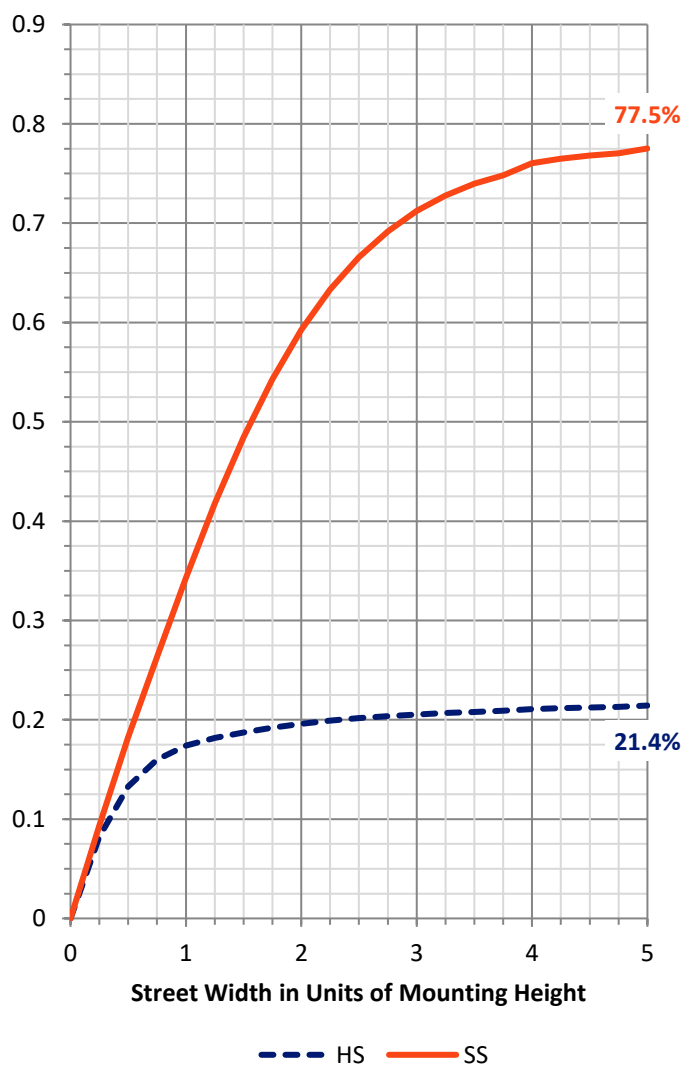
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5485.1	0.0	5485.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19334.9	0.0	19334.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	24820.0	0.0	24820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.0
10°-20°	820.4	3.3
20°-30°	1398.6	5.6
30°-40°	1959.7	7.9
40°-50°	2879.0	11.6
50°-60°	4582.0	18.5
60°-70°	6517.9	26.3
70°-80°	5457.4	22.0
80°-90°	947.1	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°	24820.0	100.0
0°-180°	24820.0	100.0

Coefficient of Utilization



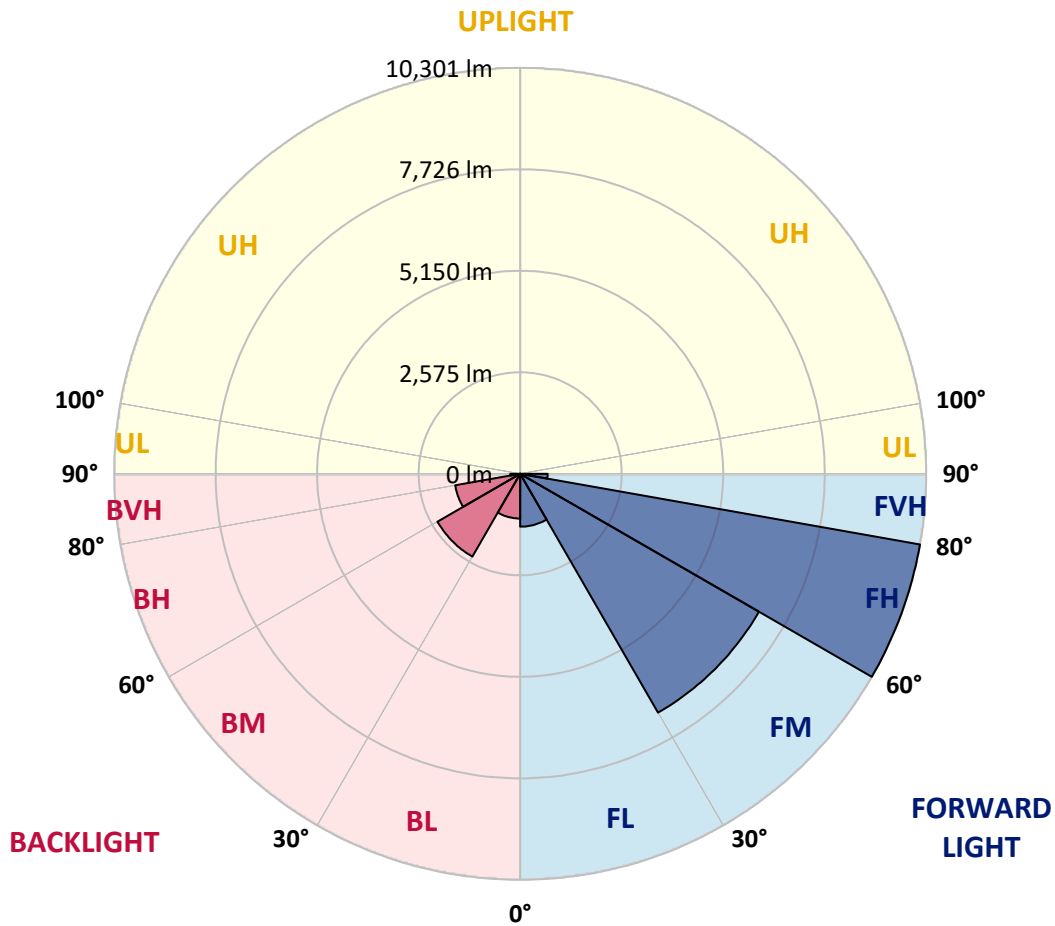
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.7	5.4			
FM (30°-60°)	6996.0	28.2			
FH (60°-80°)	10300.9	41.5			G4/12000
FVH (80°-90°)	696.3	2.8			G4/750
BL (0°-30°)	1135.2	4.6	B3/2500		
BM (30°-60°)	2424.7	9.8	B2/2500		
BH (60°-80°)	1674.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	250.8	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°	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6
2.5°	2755.9	2742.6	2736.0	2736.0	2709.4	2692.9	2689.6	2666.3	2646.4	2626.5	2610.0
5°	2915.1	2905.1	2885.2	2868.6	2832.2	2785.7	2779.1	2729.3	2679.6	2633.2	2593.4
7.5°	3061.0	3041.1	3017.9	2984.7	2925.0	2862.0	2852.1	2782.4	2712.8	2643.1	2590.1
10°	3183.7	3163.8	3130.6	3084.2	3007.9	2931.6	2921.7	2848.7	2775.8	2692.9	2616.6
12.5°	3299.8	3283.2	3233.4	3170.4	3080.9	3011.2	3001.3	2938.3	2862.0	2769.1	2669.7
15°	3399.2	3382.7	3329.6	3256.6	3153.8	3100.8	3087.5	3027.8	2951.5	2852.1	2749.2
17.5°	3449.0	3449.0	3392.6	3313.0	3216.8	3177.1	3167.1	3094.1	3024.5	2928.3	2825.5
20°	3465.6	3472.2	3432.4	3336.2	3253.3	3236.7	3226.8	3167.1	3087.5	2994.7	2898.5
22.5°	3475.5	3488.8	3455.6	3346.2	3276.5	3266.6	3260.0	3220.2	3157.2	3067.6	2971.4
25°	3508.7	3508.7	3485.5	3362.8	3306.4	3303.1	3303.1	3279.9	3236.7	3160.5	3064.3
27.5°	3558.4	3555.1	3525.3	3399.2	3372.7	3382.7	3379.4	3376.0	3346.2	3269.9	3167.1
30°	3641.3	3641.3	3608.2	3472.2	3455.6	3498.7	3502.1	3508.7	3462.3	3342.9	3260.0
32.5°	3767.4	3754.1	3720.9	3545.2	3518.6	3558.4	3565.1	3561.7	3522.0	3409.2	3369.4
35°	4155.4	4125.5	4006.1	3707.7	3575.0	3598.2	3601.5	3618.1	3624.8	3535.2	3515.3
37.5°	4835.2	4795.4	4613.0	4092.4	3754.1	3697.7	3694.4	3737.5	3774.0	3694.4	3694.4
40°	5574.8	5541.6	5435.5	4755.6	4085.7	3900.0	3886.8	3926.5	3973.0	3916.6	3933.2
42.5°	6211.5	6238.0	6248.0	5458.7	4583.2	4278.1	4241.6	4185.2	4258.2	4208.4	4274.8
45°	6689.1	6675.8	6858.2	6178.3	5226.6	4752.3	4702.6	4550.0	4642.9	4639.6	4785.5
47.5°	7196.5	7173.2	7249.5	6854.9	5959.5	5332.7	5256.4	5030.9	5170.2	5266.3	5508.4
50°	7677.3	7684.0	7710.5	7388.8	6755.4	6039.1	5942.9	5641.1	5840.1	6042.4	6384.0
52.5°	8304.1	8257.7	8224.5	8012.3	7647.5	6775.3	6712.3	6367.4	6645.9	6884.7	7339.1
55°	8851.3	8821.5	8801.6	8791.6	8393.7	7587.8	7521.5	7163.3	7564.6	7733.7	8403.6
57.5°	9435.0	9418.4	9524.5	9693.7	9534.5	8413.6	8343.9	7999.0	8446.7	8566.1	9557.7
60°	9862.8	9872.7	10164.6	10595.7	10486.3	9309.0	9226.1	8921.0	9305.6	9411.8	10711.8
62.5°	9866.1	9965.6	10642.1	11414.8	11540.9	10340.3	10244.2	9912.5	10187.8	10187.8	11746.5
65°	8924.3	9037.0	10555.9	11617.1	12608.7	11567.4	11474.5	10953.9	11056.7	10917.4	12718.2
67.5°	7985.7	8118.4	9547.7	11633.7	13358.2	12880.7	12771.2	11995.2	11819.4	11467.9	13398.0
70°	7362.3	7455.1	8649.0	11418.2	13809.2	14253.6	14170.7	12983.5	12419.7	11928.9	13255.4
72.5°	6198.2	6165.1	7305.9	10393.4	14061.3	15812.3	15742.7	14058.0	12940.4	11710.0	11305.4
75°	3598.2	3638.0	4533.4	7614.3	12675.1	16624.8	16618.2	14976.6	12711.5	10343.7	7790.1
77.5°	1038.0	1067.9	1489.0	3346.2	8015.6	14180.7	14635.0	13696.5	10744.9	7372.2	4039.3
80°	454.3	477.6	646.7	1114.3	3452.3	9262.5	9660.5	9262.5	6480.1	3382.7	1585.2
82.5°	268.6	285.2	421.2	689.8	1654.9	4407.4	4944.7	4317.9	2795.7	1436.0	656.6
85°	152.6	159.2	242.1	437.8	1041.3	1542.1	1731.1	1621.7	1363.0	815.8	344.9
87.5°	69.6	73.0	119.4	205.6	583.7	520.7	540.6	716.3	789.3	497.5	172.4
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°	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6
2.5°	2603.3	2593.4	2573.5	2566.8	2556.9	2560.2	2563.5	2563.5	2566.8	2556.9	2556.9
5°	2576.8	2560.2	2540.3	2540.3	2540.3	2566.8	2590.1	2603.3	2610.0	2610.0	2603.3
7.5°	2566.8	2546.9	2523.7	2530.4	2537.0	2570.2	2613.3	2656.4	2669.7	2669.7	2663.0
10°	2586.7	2566.8	2550.3	2560.2	2576.8	2603.3	2636.5	2676.3	2709.4	2712.8	2709.4
12.5°	2633.2	2610.0	2593.4	2613.3	2633.2	2649.8	2666.3	2682.9	2726.0	2732.7	2732.7
15°	2709.4	2686.2	2666.3	2682.9	2689.6	2689.6	2689.6	2689.6	2732.7	2739.3	2739.3
17.5°	2785.7	2765.8	2745.9	2749.2	2729.3	2702.8	2692.9	2689.6	2712.8	2732.7	2736.0
20°	2858.7	2842.1	2822.2	2789.0	2739.3	2689.6	2673.0	2673.0	2686.2	2716.1	2716.1
22.5°	2938.3	2918.4	2885.2	2808.9	2726.0	2656.4	2639.8	2649.8	2666.3	2706.1	2702.8
25°	3027.8	3001.3	2944.9	2802.3	2682.9	2600.0	2603.3	2633.2	2663.0	2706.1	2706.1
27.5°	3127.3	3090.8	2978.1	2749.2	2586.7	2507.2	2537.0	2606.6	2649.8	2696.2	2702.8
30°	3236.7	3203.6	3004.6	2656.4	2430.9	2357.9	2430.9	2543.6	2610.0	2653.1	2663.0
32.5°	3369.4	3342.9	3027.8	2537.0	2228.6	2165.6	2271.7	2411.0	2517.1	2566.8	2576.8
35°	3535.2	3508.7	3057.7	2401.0	2039.5	1973.2	2069.4	2212.0	2351.3	2414.3	2434.2
37.5°	3750.8	3711.0	3084.2	2255.1	1880.4	1804.1	1850.5	1979.9	2105.9	2192.1	2215.3
40°	4026.0	3963.0	3107.4	2089.3	1741.1	1654.9	1671.4	1734.4	1807.4	1883.7	1913.5
42.5°	4414.0	4288.0	3110.7	1913.5	1598.5	1518.9	1512.3	1532.1	1532.1	1532.1	1542.1
45°	4954.6	4715.8	3117.4	1747.7	1452.6	1369.6	1349.8	1343.1	1293.4	1197.2	1190.6
47.5°	5637.8	5276.3	3147.2	1608.4	1300.0	1227.0	1200.5	1174.0	1081.1	981.6	961.7
50°	6513.3	5926.3	3206.9	1475.8	1170.7	1120.9	1087.8	1024.7	921.9	845.7	825.8
52.5°	7521.5	6699.0	3263.3	1336.5	1074.5	1041.3	1001.5	925.3	815.8	769.4	762.8
55°	8678.9	7561.3	3376.0	1213.8	991.6	968.4	931.9	858.9	776.0	742.9	739.5
57.5°	9862.8	8526.3	3535.2	1104.3	912.0	898.7	898.7	835.7	782.7	769.4	769.4
60°	11003.6	9355.4	3412.5	1001.5	839.0	845.7	908.7	892.1	852.3	868.9	878.8
62.5°	11889.1	9842.9	2769.1	918.6	786.0	845.7	1008.2	1008.2	961.7	955.1	955.1
65°	12267.1	9836.3	1946.7	855.6	766.1	928.6	1124.2	1071.2	948.5	902.0	892.1
67.5°	12171.0	9405.1	1343.1	812.5	759.4	1014.8	1177.3	1028.1	888.8	849.0	819.1
70°	11325.3	8493.1	1034.7	772.7	749.5	978.3	1160.7	978.3	842.4	805.9	779.3
72.5°	9136.5	6811.8	858.9	732.9	709.7	905.4	1104.3	931.9	805.9	766.1	739.5
75°	5826.8	4284.7	726.3	679.8	633.4	812.5	1028.1	885.5	766.1	713.0	693.1
77.5°	2802.3	1847.2	633.4	616.8	570.4	752.8	951.8	825.8	713.0	669.9	656.6
80°	1134.2	845.7	550.5	553.8	524.0	716.3	898.7	769.4	660.0	613.5	590.3
82.5°	590.3	490.8	464.3	477.6	477.6	683.2	858.9	723.0	613.5	593.6	517.3
85°	318.4	305.1	358.2	384.7	414.5	616.8	799.2	673.2	560.5	480.9	464.3
87.5°	155.9	199.0	202.3	232.1	288.5	494.1	673.2	563.8	467.6	388.0	381.4
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)