

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: P400205

Luminaire Tested: **ARCH-L-PA3-250-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400205
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-PA3-250-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28063 lumens
Efficiency: N/A
Efficacy: 111.8 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

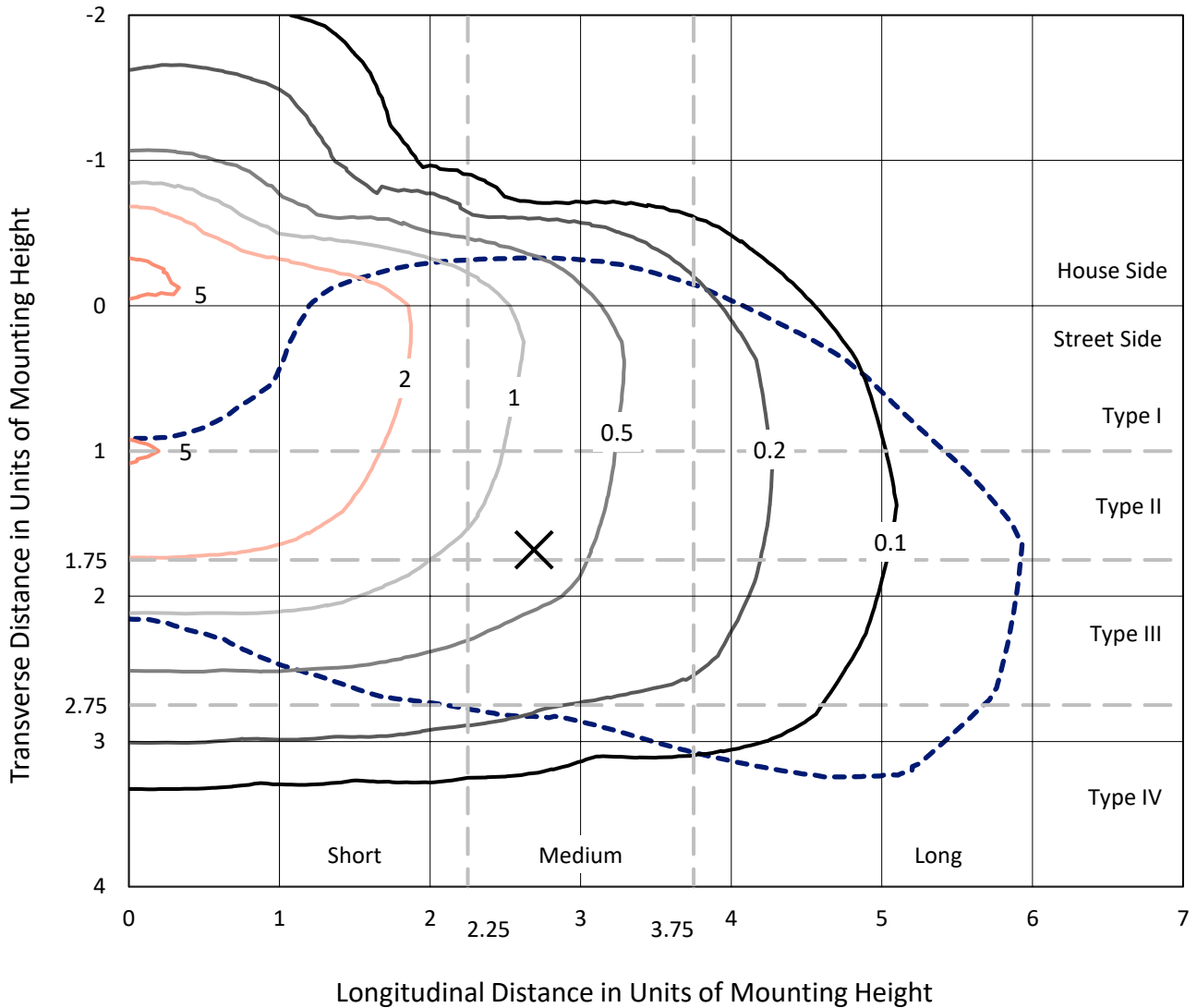
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

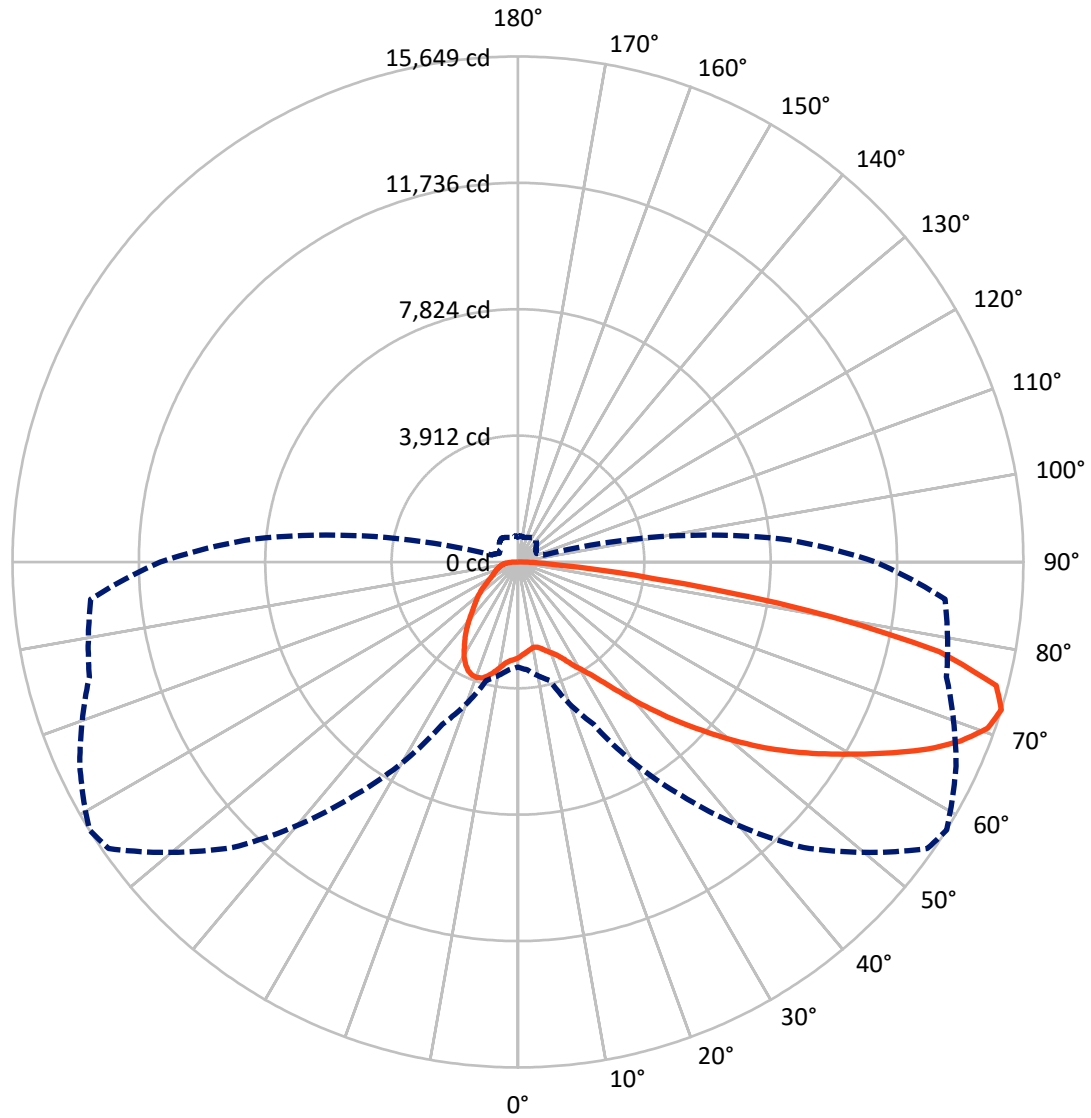
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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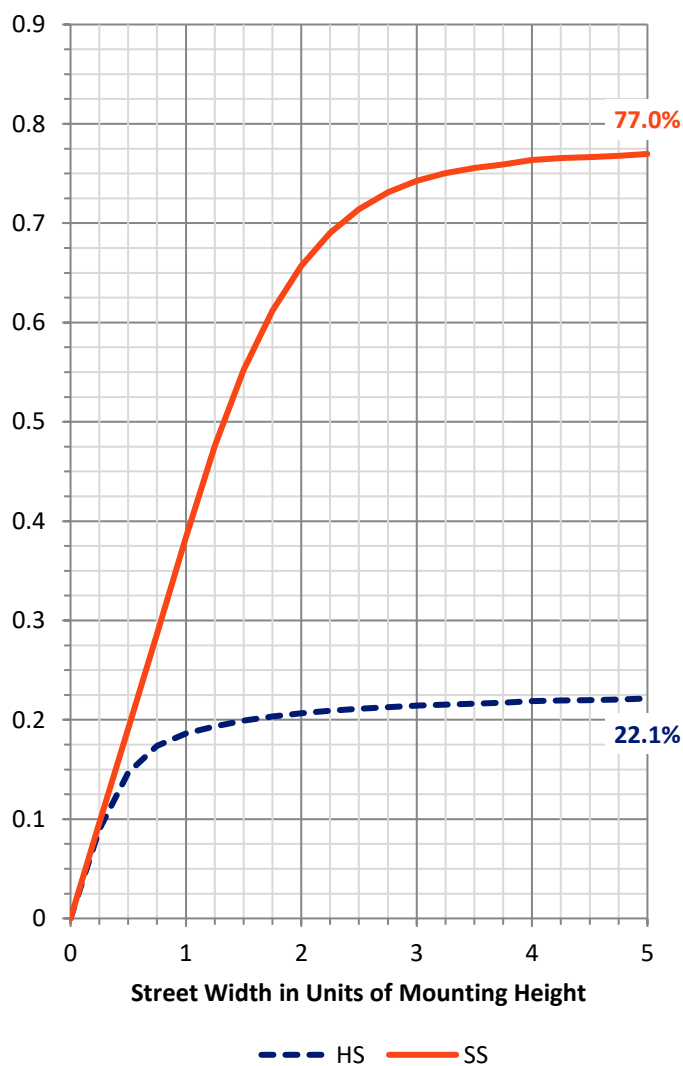
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6364.4	0.0	6364.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21698.6	0.0	21698.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	28063.0	0.0	28063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	1.0
10°-20°	905.6	3.2
20°-30°	1622.2	5.8
30°-40°	2440.1	8.7
40°-50°	3951.5	14.1
50°-60°	5948.2	21.2
60°-70°	7000.5	24.9
70°-80°	4963.9	17.7
80°-90°	945.9	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°	28063.0	100.0
0°-180°	28063.0	100.0

Coefficient of Utilization

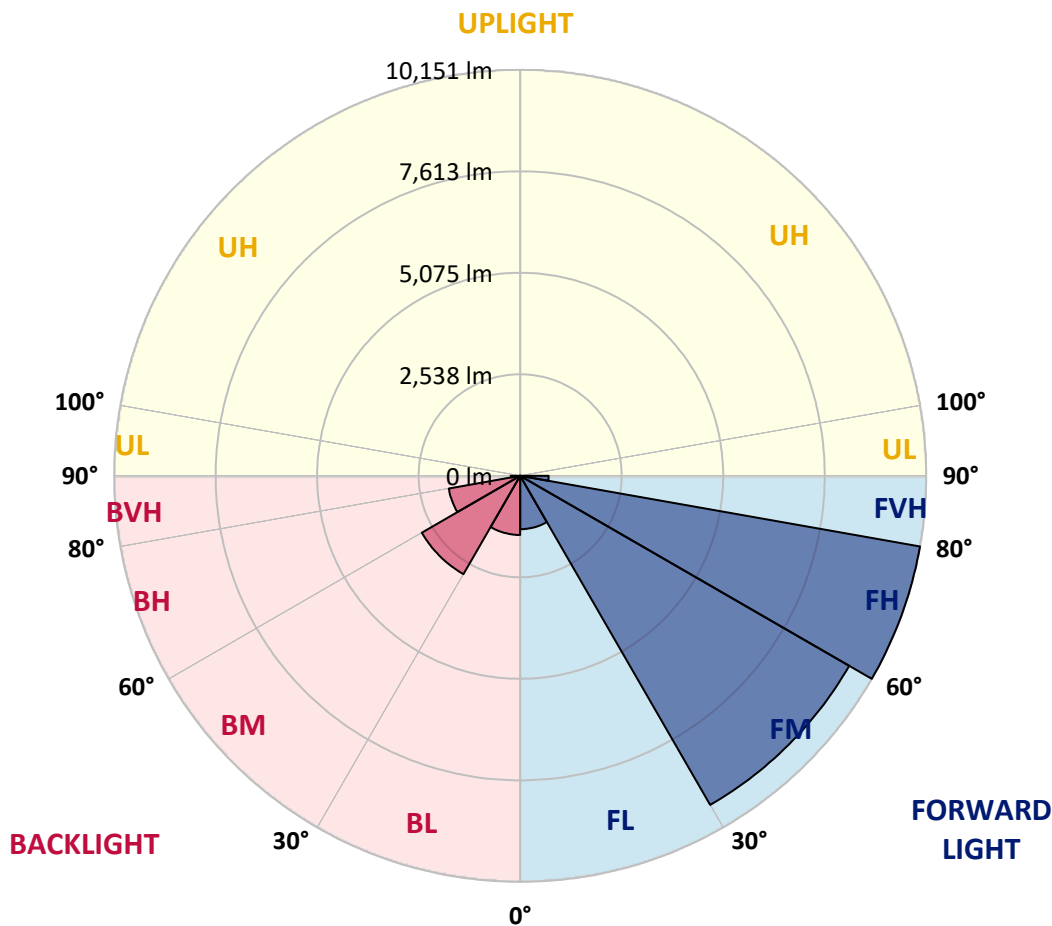


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.5	4.8			
FM (30°-60°)	9500.1	33.9			
FH (60°-80°)	10150.5	36.2			G4/12000
FVH (80°-90°)	713.5	2.5			G4/750
BL (0°-30°)	1478.3	5.3	B3/2500		
BM (30°-60°)	2839.7	10.1	B3/5000		
BH (60°-80°)	1813.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	232.4	0.8			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°	55°	58°	65°	75°	85°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2848.9	2834.1	2837.8	2837.8	2852.6	2860.0	2863.7	2874.8	2882.3	2900.8	2926.7
5°	2715.5	2704.4	2708.1	2711.8	2737.8	2763.7	2785.9	2800.7	2823.0	2852.6	2889.7
7.5°	2619.2	2611.8	2615.5	2622.9	2645.2	2674.8	2711.8	2734.1	2767.4	2823.0	2886.0
10°	2548.8	2548.8	2552.5	2567.4	2589.6	2626.6	2656.3	2682.2	2748.9	2848.9	2945.2
12.5°	2493.3	2493.3	2504.4	2534.0	2571.1	2608.1	2678.5	2708.1	2797.0	2934.1	3049.0
15°	2489.6	2493.3	2497.0	2522.9	2563.6	2645.2	2748.9	2793.3	2900.8	3063.8	3197.2
17.5°	2548.8	2552.5	2537.7	2545.1	2593.3	2708.1	2845.2	2897.1	3034.1	3212.0	3349.0
20°	2730.4	2730.4	2685.9	2645.2	2678.5	2804.5	2960.0	3011.9	3163.8	3360.2	3497.2
22.5°	3100.8	3119.4	3015.6	2926.7	2874.8	2945.2	3086.0	3141.6	3312.0	3523.2	3660.2
25°	3549.1	3567.6	3426.8	3300.9	3204.6	3193.4	3286.1	3345.3	3486.1	3704.7	3819.5
27.5°	3982.5	3949.2	3819.5	3701.0	3578.7	3478.7	3549.1	3601.0	3764.0	3930.7	4001.1
30°	4323.4	4297.4	4171.5	4086.3	3971.4	3841.8	3801.0	3856.6	3990.0	4145.6	4182.6
32.5°	4701.3	4682.7	4556.8	4445.6	4349.3	4227.1	4138.1	4164.1	4238.2	4349.3	4371.5
35°	5182.9	5223.6	5090.2	4864.3	4756.8	4638.3	4575.3	4582.7	4638.3	4708.7	4671.6
37.5°	5690.4	5738.6	5746.0	5390.3	5245.8	5138.4	5071.7	5097.7	5164.3	5212.5	5097.7
40°	6631.4	6583.2	6390.6	6127.6	5905.3	5801.5	5708.9	5705.2	5753.4	5838.6	5631.1
42.5°	7879.9	7835.4	7446.4	7105.6	6753.7	6635.1	6453.6	6375.8	6398.0	6505.4	6216.5
45°	9076.5	9058.0	8746.8	8350.4	7928.0	7698.4	7283.4	7094.5	7076.0	7161.2	6816.6
47.5°	10139.7	10058.2	9832.3	9524.8	9480.3	8880.1	8117.0	7861.4	7772.4	7820.6	7435.3
50°	11277.1	10999.2	10688.0	10499.1	10821.4	10262.0	8957.9	8691.2	8472.6	8506.0	8105.9
52.5°	11881.0	11414.2	11210.4	11266.0	11699.4	11484.5	9873.0	9547.0	9195.0	9243.2	8772.7
55°	11362.3	11358.6	11447.5	11792.0	12395.9	12147.7	10743.6	10376.8	9991.6	10002.7	9539.6
57.5°	10651.0	10795.5	11254.9	12014.3	13259.1	12844.2	11599.4	11210.4	10858.5	10802.9	10410.2
60°	10002.7	10162.0	10828.8	11977.3	13559.2	13481.4	12414.4	12073.6	11788.3	11625.3	11325.2
62.5°	9017.2	9135.8	10080.5	11740.2	13307.3	13940.8	13240.6	13007.2	12792.3	12455.2	12310.7
65°	7857.7	7898.4	8895.0	10958.5	12992.4	14118.6	14063.0	13959.3	13751.8	13255.4	13285.0
67.5°	6601.8	6683.3	7557.6	9710.0	12303.3	14037.1	14700.2	14785.4	14540.9	13796.3	13907.4
70°	5264.4	5364.4	6027.5	7983.6	11132.6	13685.1	15289.3	15426.3	14955.8	13974.1	14022.3
72.5°	3256.4	3352.7	3797.3	5545.9	8824.6	12503.3	15470.8	15648.6	14967.0	13737.0	13273.9
75°	1126.2	1137.3	1485.6	2660.0	5238.4	9439.6	14878.0	15296.7	14496.5	12873.8	11551.2
77.5°	515.0	533.5	659.4	1096.6	2322.8	5094.0	12284.8	13333.2	13066.5	11525.3	8891.3
80°	355.7	363.1	455.7	655.7	1341.1	1793.1	7753.9	9121.0	9587.7	8924.6	5697.8
82.5°	266.7	274.1	351.9	444.6	966.9	870.6	2952.6	4238.2	5268.1	5171.8	2382.1
85°	255.6	251.9	274.1	296.4	644.6	518.7	955.8	1311.5	2056.1	1759.7	600.2
87.5°	111.1	122.3	281.6	166.7	337.1	240.8	414.9	485.3	626.1	544.6	214.9
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°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2937.8	2945.2	2967.5	3000.8	3019.3	3056.4	3082.3	3097.1	3108.2	3111.9	3111.9
5°	2911.9	2926.7	2974.9	3030.4	3082.3	3160.1	3230.5	3271.2	3300.9	3312.0	3315.7
7.5°	2919.3	2956.3	3026.7	3108.2	3174.9	3274.9	3360.2	3441.7	3508.3	3534.3	3534.3
10°	2989.7	3041.6	3137.9	3245.3	3330.5	3434.3	3523.2	3593.6	3671.4	3715.8	3723.2
12.5°	3097.1	3160.1	3286.1	3404.6	3500.9	3582.4	3663.9	3715.8	3752.9	3786.2	3793.6
15°	3249.0	3326.8	3452.8	3575.0	3660.2	3712.1	3734.3	3734.3	3730.6	3734.3	3741.7
17.5°	3400.9	3475.0	3601.0	3723.2	3764.0	3734.3	3708.4	3701.0	3697.3	3689.9	3693.6
20°	3549.1	3619.5	3726.9	3819.5	3786.2	3682.5	3649.1	3645.4	3634.3	3626.9	3619.5
22.5°	3697.3	3749.1	3838.1	3871.4	3738.0	3589.8	3549.1	3526.9	3512.0	3493.5	3475.0
25°	3867.7	3882.5	3949.2	3897.3	3619.5	3419.4	3360.2	3326.8	3312.0	3293.5	3278.7
27.5°	4027.0	4027.0	4038.1	3856.6	3445.4	3193.4	3104.5	3045.3	3041.6	3037.8	3034.1
30°	4171.5	4153.0	4115.9	3734.3	3219.4	2915.6	2782.2	2722.9	2745.2	2763.7	2767.4
32.5°	4341.9	4304.9	4201.1	3567.6	2948.9	2604.4	2441.4	2415.5	2441.4	2463.6	2448.8
35°	4608.6	4542.0	4290.0	3375.0	2689.6	2319.1	2163.5	2126.5	2119.1	2115.4	2085.7
37.5°	4990.2	4875.4	4360.4	3167.5	2434.0	2067.2	1952.4	1874.6	1804.2	1730.1	1719.0
40°	5457.0	5260.7	4408.6	2930.4	2163.5	1856.1	1733.8	1633.8	1515.2	1385.6	1370.7
42.5°	5968.3	5675.6	4430.8	2667.4	1926.4	1681.9	1530.0	1404.1	1270.7	1170.7	1152.2
45°	6520.3	6123.9	4412.3	2415.5	1733.8	1533.7	1363.3	1226.3	1118.8	1048.4	1033.6
47.5°	7057.4	6638.8	4360.4	2215.4	1585.6	1407.8	1233.7	1107.7	1026.2	948.4	929.9
50°	7746.5	7131.5	4297.4	2059.8	1422.6	1281.8	1152.2	1018.8	926.2	889.1	881.7
52.5°	8509.7	7624.3	4223.4	1863.5	1263.3	1181.8	1100.3	981.7	952.1	881.7	870.6
55°	9335.8	8209.6	4208.5	1615.2	1122.5	1111.4	1048.4	1015.1	1022.5	881.7	863.2
57.5°	10206.4	8835.7	4241.9	1367.0	1007.7	1048.4	1070.7	1044.7	1033.6	900.2	863.2
60°	11114.1	9439.6	4141.8	1137.3	918.8	996.6	1096.6	1029.9	948.4	892.8	866.9
62.5°	11995.8	9947.1	3708.4	974.3	852.1	981.7	1081.8	974.3	881.7	881.7	870.6
65°	12636.7	10173.1	2900.8	855.8	807.6	963.2	1055.8	937.3	863.2	889.1	874.3
67.5°	12710.8	9939.7	1948.7	763.2	770.6	929.9	996.6	903.9	844.7	911.4	889.1
70°	12255.1	9332.1	1192.9	692.8	722.4	870.6	944.7	870.6	818.7	892.8	859.5
72.5°	11073.3	8198.5	841.0	633.5	670.5	815.0	896.5	841.0	781.7	807.6	774.3
75°	9083.9	6353.5	666.8	577.9	618.7	763.2	855.8	796.5	737.2	726.1	703.9
77.5°	6435.1	4071.5	537.2	533.5	563.1	700.2	800.2	744.6	685.4	663.1	648.3
80°	3701.0	1996.8	463.1	481.6	511.2	637.2	733.5	685.4	629.8	596.5	574.2
82.5°	1415.2	696.5	407.5	418.6	452.0	570.5	666.8	626.1	570.5	600.2	503.8
85°	459.4	381.6	333.4	344.5	377.9	474.2	589.0	555.7	492.7	437.2	403.8
87.5°	203.8	207.5	177.8	196.3	237.1	314.9	429.7	407.5	359.4	300.1	289.0
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)