

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: P400072

Luminaire Tested: **ARCH-L-PA3-230-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400072
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-PA3-230-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28777 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

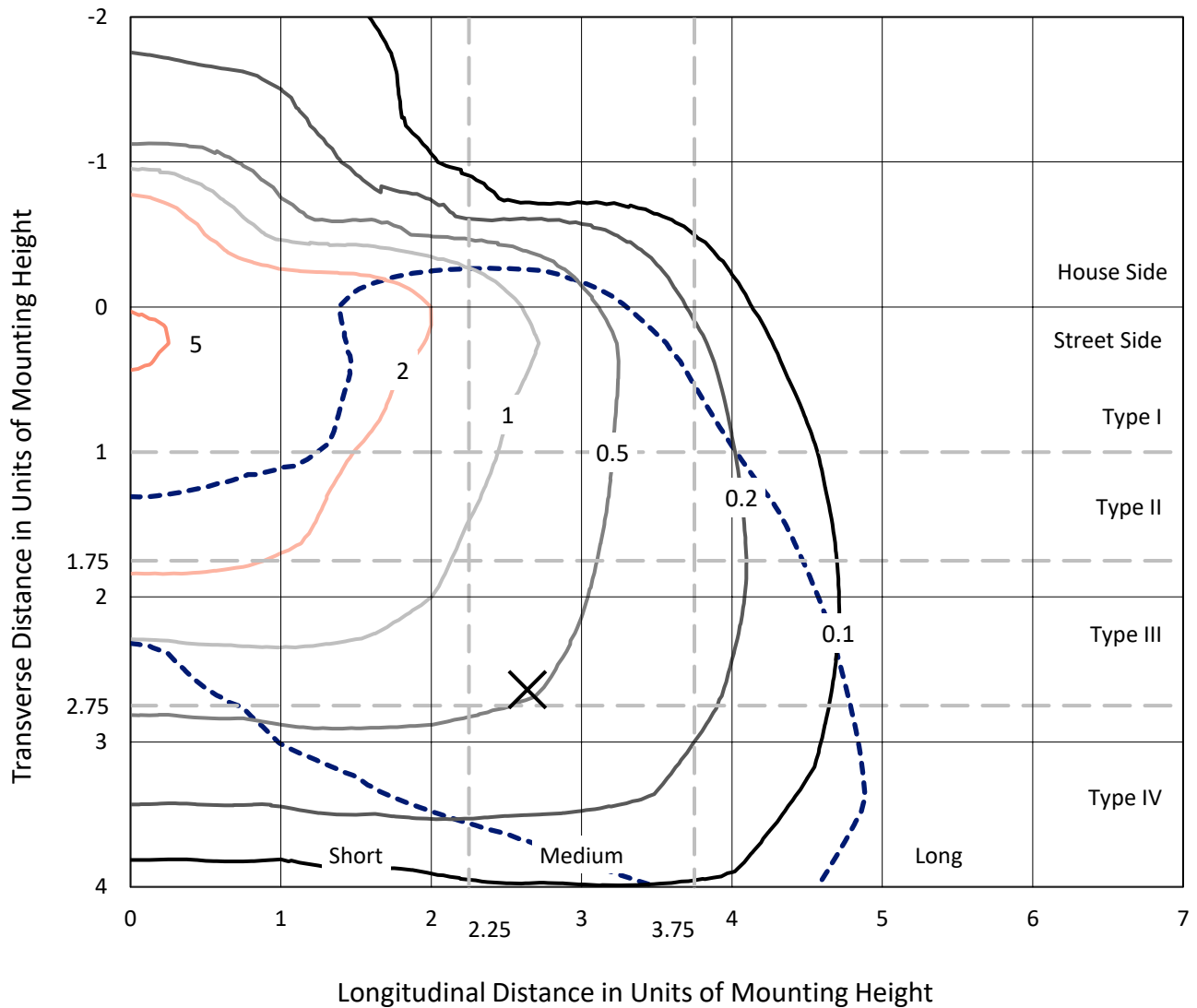
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400072
 CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

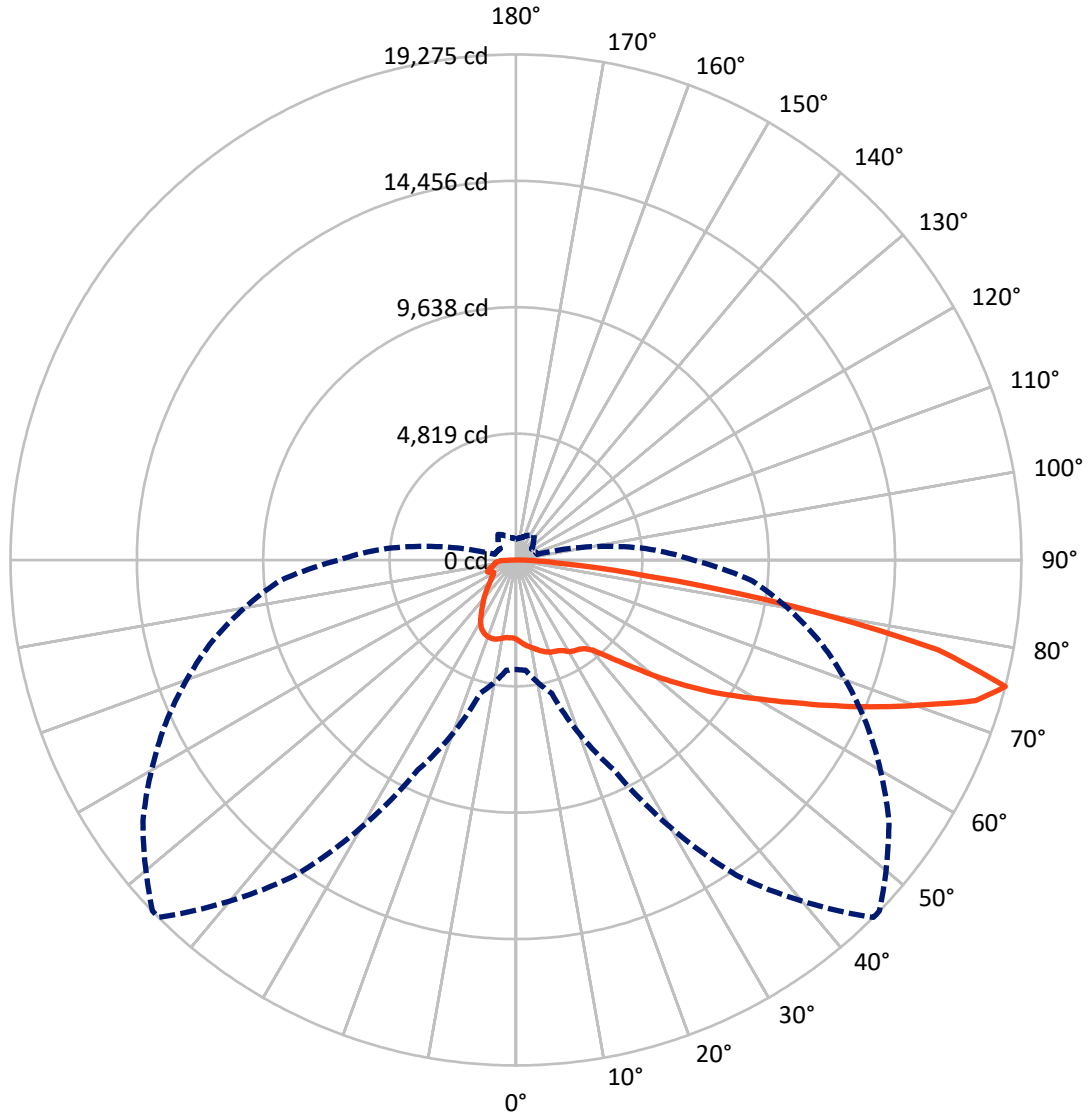
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400072
CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P400072
 CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

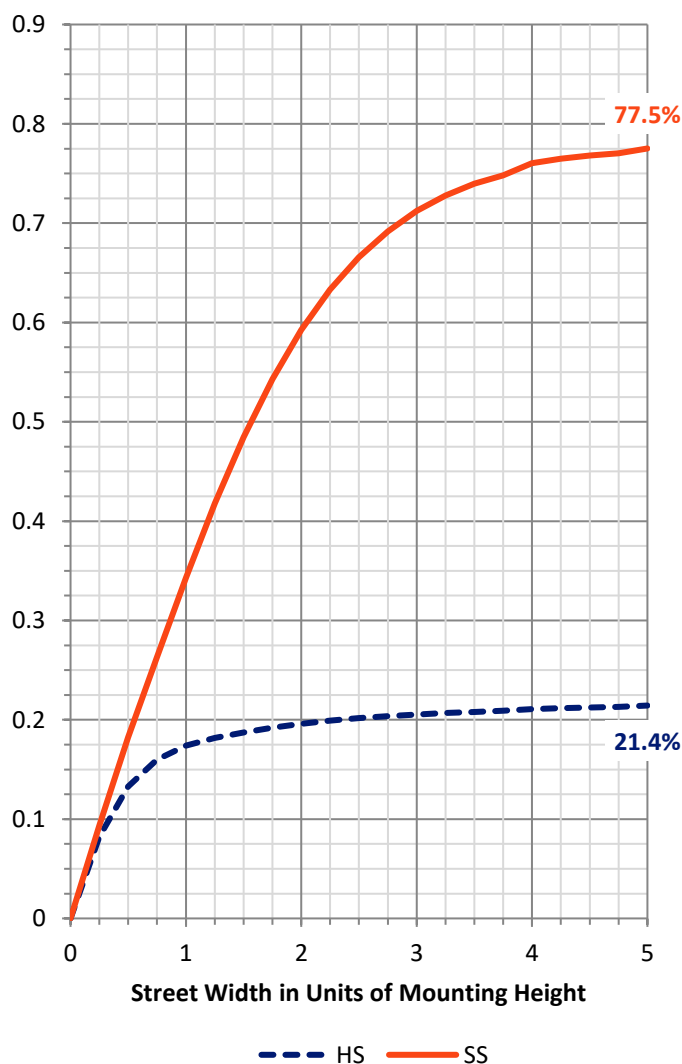
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6359.6	0.0	6359.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22417.4	0.0	22417.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	28777.0	0.0	28777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	1.0
10°-20°	951.2	3.3
20°-30°	1621.6	5.6
30°-40°	2272.1	7.9
40°-50°	3338.0	11.6
50°-60°	5312.5	18.5
60°-70°	7557.0	26.3
70°-80°	6327.5	22.0
80°-90°	1098.1	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°	28777.0	100.0
0°-180°	28777.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400072

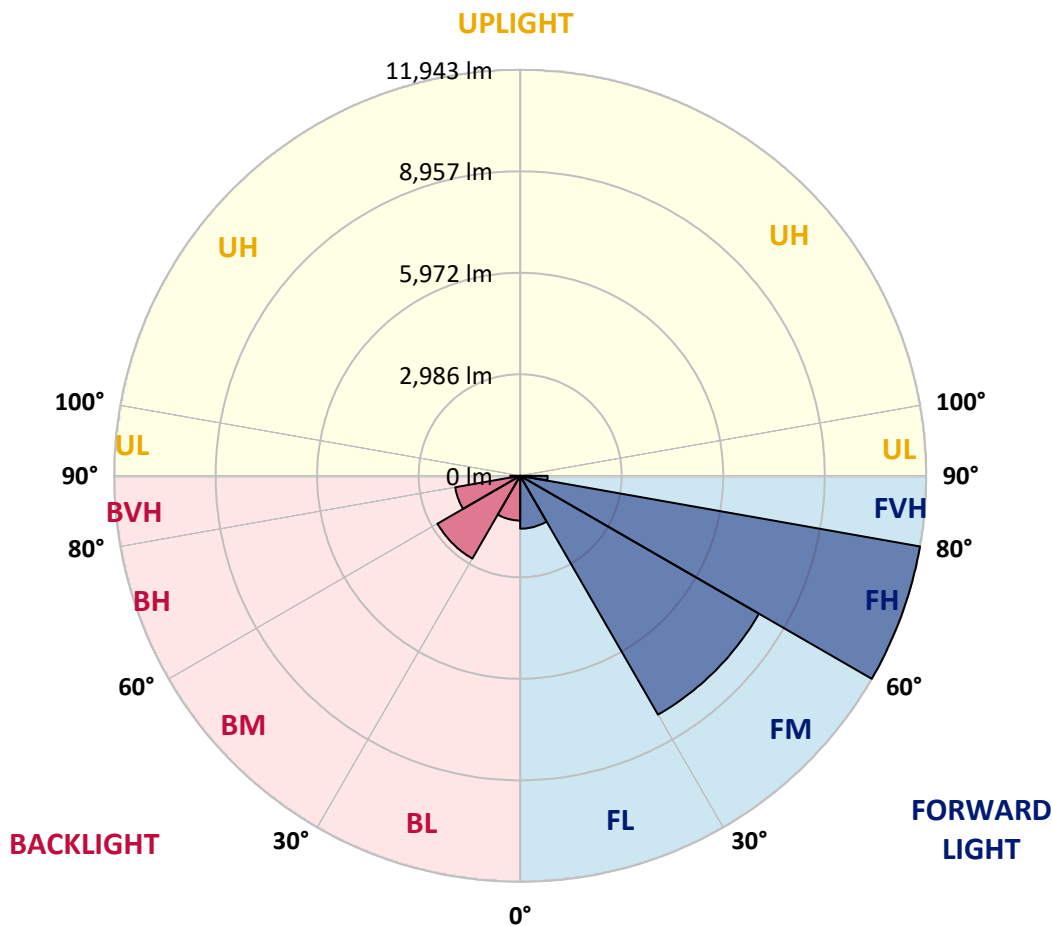
CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.6	5.4			
FM (30°-60°)	8111.4	28.2			
FH (60°-80°)	11943.2	41.5			G4/12000
FVH (80°-90°)	807.3	2.8			G5
BL (0°-30°)	1316.2	4.6	B3/2500		
BM (30°-60°)	2811.2	9.8	B3/5000		
BH (60°-80°)	1941.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	290.8	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-G5

Type IV Medium





REPORT NUMBER: P400072

CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2
2.5°	3195.2	3179.9	3172.2	3172.2	3141.4	3122.2	3118.3	3091.4	3068.4	3045.3	3026.1
5°	3379.8	3368.3	3345.2	3326.0	3283.7	3229.8	3222.2	3164.5	3106.8	3053.0	3006.8
7.5°	3549.0	3525.9	3499.0	3460.6	3391.3	3318.3	3306.7	3226.0	3145.3	3064.5	3003.0
10°	3691.3	3668.2	3629.7	3575.9	3487.5	3399.0	3387.5	3302.9	3218.3	3122.2	3033.7
12.5°	3825.8	3806.6	3748.9	3675.9	3572.1	3491.3	3479.8	3406.7	3318.3	3210.6	3095.3
15°	3941.2	3922.0	3860.4	3775.8	3656.6	3595.1	3579.7	3510.5	3422.1	3306.7	3187.6
17.5°	3998.9	3998.9	3933.5	3841.2	3729.7	3683.6	3672.0	3587.4	3506.7	3395.2	3276.0
20°	4018.1	4025.8	3979.6	3868.1	3772.0	3752.8	3741.2	3672.0	3579.7	3472.1	3360.6
22.5°	4029.6	4045.0	4006.5	3879.7	3798.9	3787.4	3779.7	3733.6	3660.5	3556.7	3445.2
25°	4068.1	4068.1	4041.2	3898.9	3833.5	3829.7	3829.7	3802.8	3752.8	3664.3	3552.8
27.5°	4125.7	4121.9	4087.3	3941.2	3910.4	3922.0	3918.1	3914.3	3879.7	3791.2	3672.0
30°	4221.9	4221.9	4183.4	4025.8	4006.5	4056.5	4060.4	4068.1	4014.2	3875.8	3779.7
32.5°	4368.0	4352.6	4314.2	4110.4	4079.6	4125.7	4133.4	4129.6	4083.5	3952.7	3906.6
35°	4817.9	4783.3	4644.8	4298.8	4145.0	4171.9	4175.7	4195.0	4202.6	4098.8	4075.8
37.5°	5606.1	5560.0	5348.5	4744.8	4352.6	4287.2	4283.4	4333.4	4375.7	4283.4	4283.4
40°	6463.5	6425.1	6302.0	5513.8	4737.1	4521.8	4506.4	4552.5	4606.4	4541.0	4560.2
42.5°	7201.8	7232.6	7244.1	6329.0	5313.9	4960.1	4917.8	4852.5	4937.1	4879.4	4956.3
45°	7755.5	7740.1	7951.6	7163.3	6059.8	5510.0	5452.3	5275.4	5383.1	5379.2	5548.4
47.5°	8343.8	8316.9	8405.3	7947.7	6909.6	6182.9	6094.4	5833.0	5994.4	6106.0	6386.6
50°	8901.3	8909.0	8939.8	8566.8	7832.4	7001.8	6890.3	6540.4	6771.1	7005.7	7401.7
52.5°	9628.0	9574.2	9535.7	9289.7	8866.7	7855.5	7782.4	7382.5	7705.5	7982.3	8509.1
55°	10262.5	10227.9	10204.8	10193.2	9731.8	8797.5	8720.6	8305.3	8770.6	8966.7	9743.4
57.5°	10939.2	10920.0	11043.0	11239.1	11054.5	9754.9	9674.2	9274.3	9793.4	9931.8	11081.5
60°	11435.2	11446.7	11785.1	12285.0	12158.1	10793.1	10696.9	10343.2	10789.2	10912.3	12419.5
62.5°	11439.0	11554.4	12338.8	13234.7	13380.8	11988.9	11877.4	11492.9	11812.0	11812.0	13619.2
65°	10347.0	10477.8	12238.8	13469.2	14618.9	13411.6	13303.9	12700.2	12819.4	12657.9	14745.8
67.5°	9258.9	9412.7	11069.9	13488.5	15487.9	14934.2	14807.3	13907.6	13703.8	13296.2	15534.0
70°	8536.0	8643.7	10027.9	13238.5	16010.8	16526.1	16429.9	15053.4	14399.7	13830.7	15368.7
72.5°	7186.4	7148.0	8470.7	12050.4	16303.0	18333.2	18252.5	16299.2	15003.4	13576.9	13107.8
75°	4171.9	4218.0	5256.2	8828.3	14695.8	19275.3	19267.6	17364.3	14738.1	11992.7	9032.0
77.5°	1203.5	1238.1	1726.4	3879.7	9293.5	16441.5	16968.2	15880.1	12458.0	8547.6	4683.3
80°	526.8	553.7	749.8	1291.9	4002.7	10739.2	11200.7	10739.2	7513.2	3922.0	1837.9
82.5°	311.4	330.7	488.3	799.8	1918.7	5110.1	5733.0	5006.3	3241.4	1664.9	761.3
85°	176.9	184.6	280.7	507.5	1207.3	1788.0	2007.1	1880.2	1580.3	945.9	399.9
87.5°	80.7	84.6	138.4	238.4	676.7	603.7	626.7	830.5	915.1	576.8	199.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400072

CATALOG NUMBER: ARCH-L-PA3-230-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2	3022.2
2.5°	3018.4	3006.8	2983.8	2976.1	2964.5	2968.4	2972.2	2972.2	2976.1	2964.5	2964.5
5°	2987.6	2968.4	2945.3	2945.3	2945.3	2976.1	3003.0	3018.4	3026.1	3026.1	3018.4
7.5°	2976.1	2953.0	2926.1	2933.8	2941.5	2979.9	3029.9	3079.9	3095.3	3095.3	3087.6
10°	2999.1	2976.1	2956.8	2968.4	2987.6	3018.4	3056.8	3103.0	3141.4	3145.3	3141.4
12.5°	3053.0	3026.1	3006.8	3029.9	3053.0	3072.2	3091.4	3110.7	3160.6	3168.3	3168.3
15°	3141.4	3114.5	3091.4	3110.7	3118.3	3118.3	3118.3	3118.3	3168.3	3176.0	3176.0
17.5°	3229.8	3206.8	3183.7	3187.6	3164.5	3133.7	3122.2	3118.3	3145.3	3168.3	3172.2
20°	3314.4	3295.2	3272.1	3233.7	3176.0	3118.3	3099.1	3099.1	3114.5	3149.1	3149.1
22.5°	3406.7	3383.7	3345.2	3256.8	3160.6	3079.9	3060.7	3072.2	3091.4	3137.6	3133.7
25°	3510.5	3479.8	3414.4	3249.1	3110.7	3014.5	3018.4	3053.0	3087.6	3137.6	3137.6
27.5°	3625.9	3583.6	3452.9	3187.6	2999.1	2906.9	2941.5	3022.2	3072.2	3126.0	3133.7
30°	3752.8	3714.3	3483.6	3079.9	2818.4	2733.8	2818.4	2949.2	3026.1	3076.0	3087.6
32.5°	3906.6	3875.8	3510.5	2941.5	2583.9	2510.8	2633.9	2795.4	2918.4	2976.1	2987.6
35°	4098.8	4068.1	3545.1	2783.8	2364.7	2287.8	2399.3	2564.7	2726.1	2799.2	2822.3
37.5°	4348.8	4302.6	3575.9	2614.6	2180.1	2091.7	2145.5	2295.5	2441.6	2541.6	2568.5
40°	4667.9	4594.8	3602.8	2422.4	2018.7	1918.7	1937.9	2011.0	2095.6	2184.0	2218.6
42.5°	5117.8	4971.7	3606.7	2218.6	1853.3	1761.0	1753.3	1776.4	1776.4	1776.4	1788.0
45°	5744.5	5467.7	3614.4	2026.3	1684.1	1588.0	1564.9	1557.2	1499.6	1388.1	1380.4
47.5°	6536.6	6117.5	3649.0	1864.9	1507.3	1422.7	1391.9	1361.2	1253.5	1138.1	1115.1
50°	7551.7	6871.1	3718.2	1711.1	1357.3	1299.6	1261.2	1188.1	1068.9	980.5	957.4
52.5°	8720.6	7767.0	3783.5	1549.6	1245.8	1207.3	1161.2	1072.8	945.9	892.1	884.4
55°	10062.5	8766.7	3914.3	1407.3	1149.7	1122.8	1080.5	995.9	899.7	861.3	857.4
57.5°	11435.2	9885.6	4098.8	1280.4	1057.4	1042.0	1042.0	969.0	907.4	892.1	892.1
60°	12757.9	10846.9	3956.6	1161.2	972.8	980.5	1053.5	1034.3	988.2	1007.4	1018.9
62.5°	13784.5	11412.1	3210.6	1065.1	911.3	980.5	1168.9	1168.9	1115.1	1107.4	1107.4
65°	14222.9	11404.4	2257.0	992.0	888.2	1076.6	1303.5	1242.0	1099.7	1045.9	1034.3
67.5°	14111.4	10904.6	1557.2	942.0	880.5	1176.6	1365.0	1192.0	1030.5	984.3	949.7
70°	13130.9	9847.2	1199.7	895.9	869.0	1134.3	1345.8	1134.3	976.6	934.3	903.6
72.5°	10593.1	7897.7	995.9	849.8	822.8	1049.7	1280.4	1080.5	934.3	888.2	857.4
75°	6755.8	4967.8	842.1	788.2	734.4	942.0	1192.0	1026.6	888.2	826.7	803.6
77.5°	3249.1	2141.7	734.4	715.2	661.3	872.8	1103.5	957.4	826.7	776.7	761.3
80°	1315.0	980.5	638.3	642.1	607.5	830.5	1042.0	892.1	765.2	711.3	684.4
82.5°	684.4	569.1	538.3	553.7	553.7	792.1	995.9	838.2	711.3	688.3	599.8
85°	369.1	353.7	415.3	446.0	480.6	715.2	926.7	780.5	649.8	557.5	538.3
87.5°	180.7	230.7	234.5	269.2	334.5	572.9	780.5	653.7	542.2	449.9	442.2
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)