

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: P400351

Luminaire Tested: **ARCH-L-PA3-270-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400351
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-PA3-270-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29393 lumens
Efficiency: N/A
Efficacy: 107.7 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

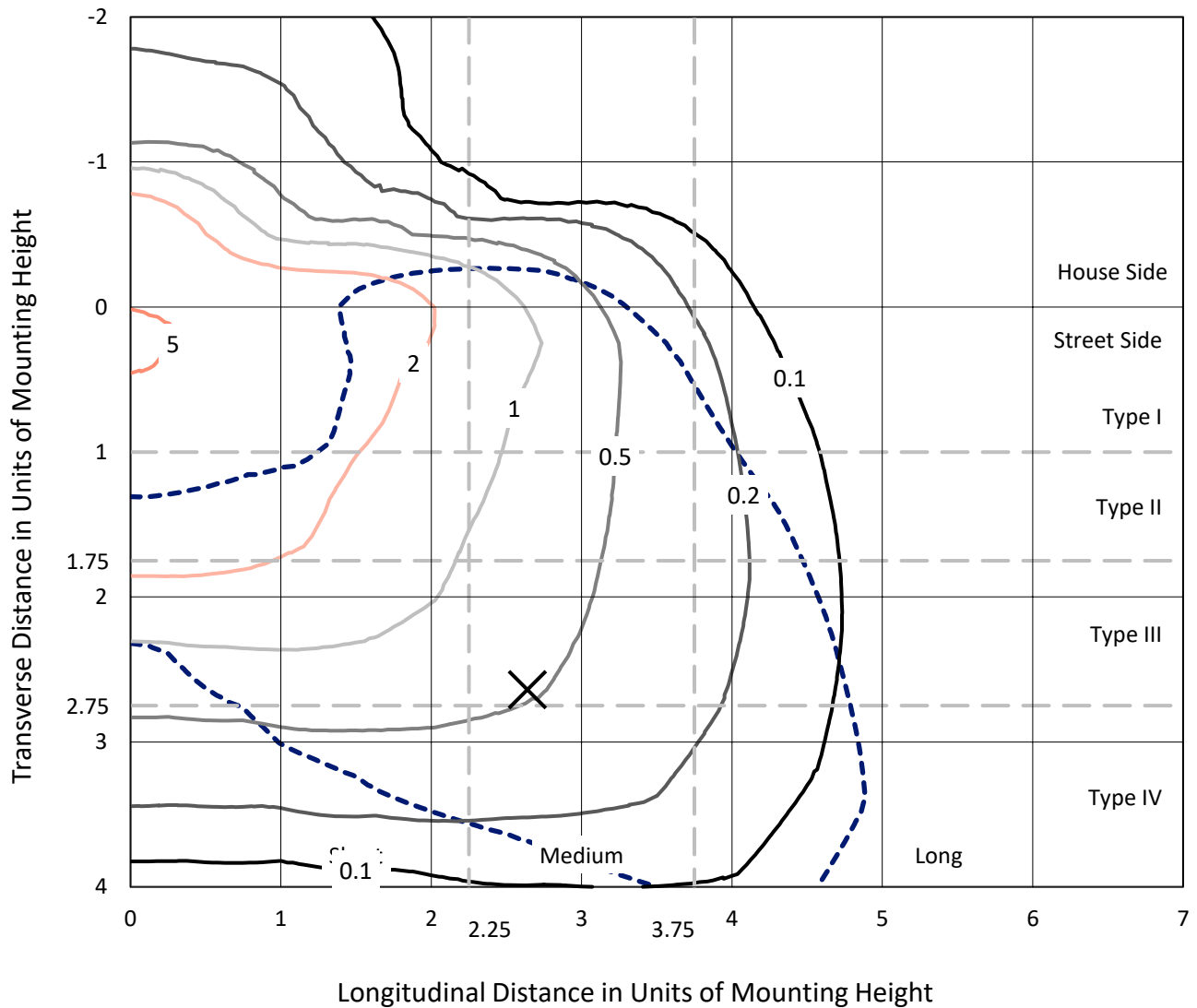
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400351
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

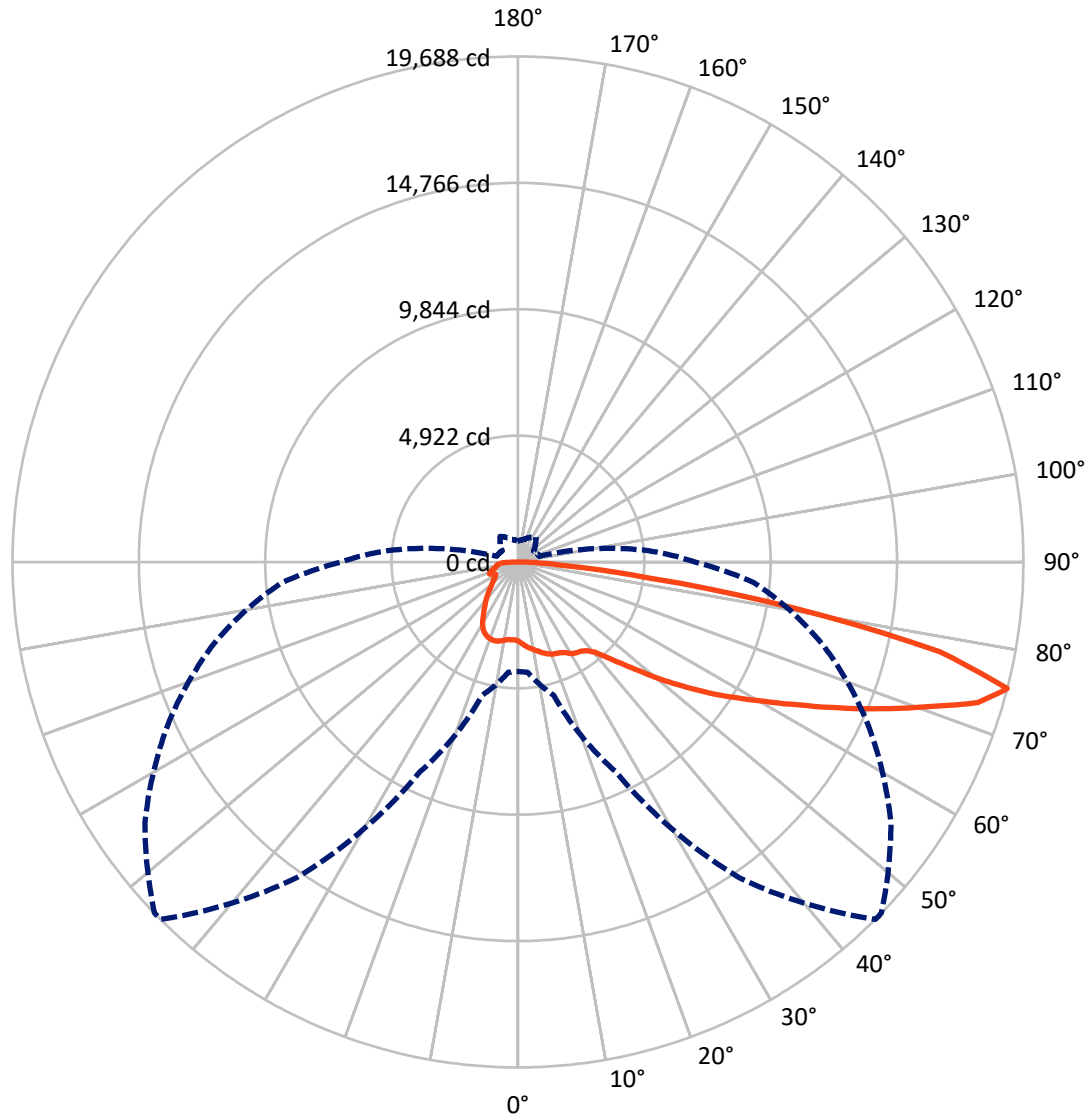
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400351
CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400351
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

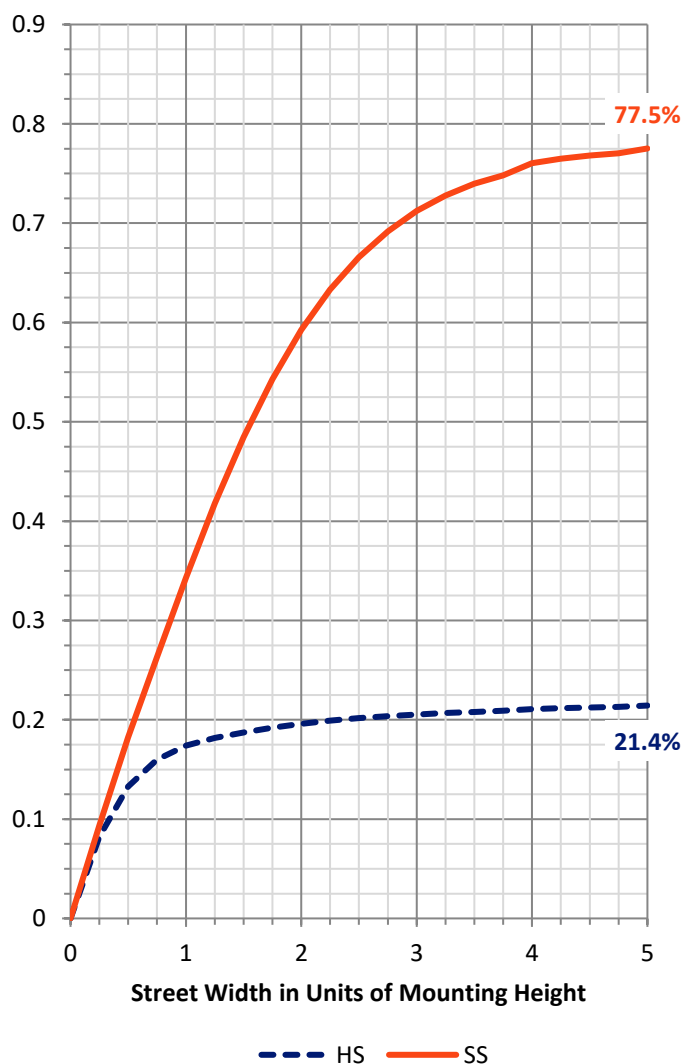
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6495.7	0.0	6495.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22897.3	0.0	22897.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	29393.0	0.0	29393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.0
10°-20°	971.5	3.3
20°-30°	1656.3	5.6
30°-40°	2320.7	7.9
40°-50°	3409.5	11.6
50°-60°	5426.2	18.5
60°-70°	7718.8	26.3
70°-80°	6462.9	22.0
80°-90°	1121.6	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°	29393.0	100.0
0°-180°	29393.0	100.0

Coefficient of Utilization

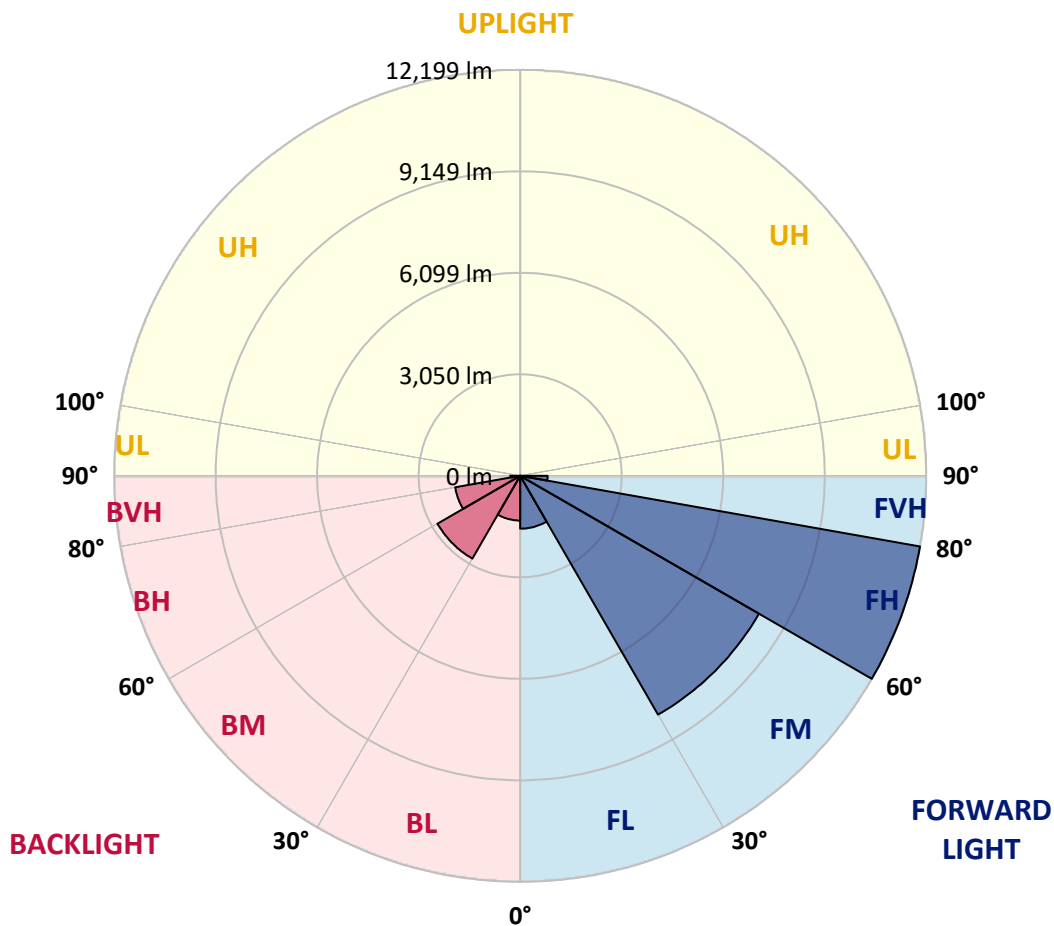


REPORT NUMBER: P400351
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.9	5.4			
FM (30°-60°)	8285.0	28.2			
FH (60°-80°)	12198.8	41.5			G5
FVH (80°-90°)	824.6	2.8			G5
BL (0°-30°)	1344.4	4.6	B3/2500		
BM (30°-60°)	2871.4	9.8	B3/5000		
BH (60°-80°)	1982.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	297.0	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: P400351

CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9
2.5°	3263.6	3247.9	3240.1	3240.1	3208.7	3189.0	3185.1	3157.6	3134.0	3110.5	3090.8
5°	3452.2	3440.4	3416.8	3397.2	3354.0	3299.0	3291.1	3232.2	3173.3	3118.3	3071.2
7.5°	3625.0	3601.4	3573.9	3534.6	3463.9	3389.3	3377.5	3295.1	3212.6	3130.1	3067.3
10°	3770.3	3746.7	3707.4	3652.4	3562.1	3471.8	3460.0	3373.6	3287.2	3189.0	3098.7
12.5°	3907.7	3888.1	3829.2	3754.6	3648.5	3566.0	3554.3	3479.6	3389.3	3279.3	3161.5
15°	4025.5	4005.9	3943.1	3856.7	3734.9	3672.1	3656.4	3585.7	3495.4	3377.5	3255.8
17.5°	4084.5	4084.5	4017.7	3923.4	3809.5	3762.4	3750.6	3664.2	3581.8	3467.9	3346.1
20°	4104.1	4112.0	4064.8	3950.9	3852.7	3833.1	3821.3	3750.6	3656.4	3546.4	3432.5
22.5°	4115.9	4131.6	4092.3	3962.7	3880.2	3868.5	3860.6	3813.5	3738.9	3632.8	3518.9
25°	4155.2	4155.2	4127.7	3982.3	3915.6	3911.7	3911.7	3884.2	3833.1	3742.8	3628.9
27.5°	4214.1	4210.1	4174.8	4025.5	3994.1	4005.9	4002.0	3998.1	3962.7	3872.4	3750.6
30°	4312.2	4312.2	4273.0	4112.0	4092.3	4143.4	4147.3	4155.2	4100.2	3958.8	3860.6
32.5°	4461.5	4445.8	4406.5	4198.4	4166.9	4214.1	4221.9	4218.0	4170.9	4037.3	3990.2
35°	4921.0	4885.6	4744.3	4390.8	4233.7	4261.2	4265.1	4284.8	4292.6	4186.6	4163.0
37.5°	5726.1	5679.0	5463.0	4846.4	4445.8	4379.0	4375.1	4426.1	4469.3	4375.1	4375.1
40°	6601.9	6562.6	6436.9	5631.8	4838.5	4618.6	4602.9	4650.0	4705.0	4638.2	4657.9
42.5°	7356.0	7387.4	7399.2	6464.4	5427.6	5066.3	5023.1	4956.3	5042.7	4983.8	5062.4
45°	7921.5	7905.8	8121.8	7316.7	6189.5	5627.9	5569.0	5388.3	5498.3	5494.4	5667.2
47.5°	8522.4	8494.9	8585.2	8117.9	7057.5	6315.2	6224.9	5957.8	6122.8	6236.7	6523.4
50°	9091.8	9099.7	9131.1	8750.2	8000.0	7151.7	7037.8	6680.4	6916.1	7155.7	7560.2
52.5°	9834.1	9779.1	9739.9	9488.5	9056.5	8023.6	7949.0	7540.5	7870.4	8153.2	8691.3
55°	10482.1	10446.8	10423.2	10411.4	9940.2	8985.8	8907.3	8483.1	8958.3	9158.6	9951.9
57.5°	11173.4	11153.7	11279.4	11479.7	11291.2	9963.7	9881.2	9472.8	10003.0	10144.4	11318.7
60°	11680.0	11691.8	12037.4	12547.9	12418.3	11024.1	10925.9	10564.6	11020.2	11145.9	12685.4
62.5°	11683.9	11801.7	12602.9	13518.0	13667.2	12245.5	12131.6	11738.9	12064.9	12064.9	13910.7
65°	10568.5	10702.1	12500.8	13757.6	14931.8	13698.6	13588.7	12972.1	13093.8	12928.9	15061.4
67.5°	9457.1	9614.2	11306.9	13777.2	15819.4	15253.9	15124.3	14205.3	13997.1	13580.8	15866.6
70°	8718.7	8828.7	10242.6	13521.9	16353.5	16879.8	16781.6	15375.6	14708.0	14126.7	15697.7
72.5°	7340.2	7301.0	8652.0	12308.4	16652.0	18725.7	18643.2	16648.1	15324.6	13867.5	13388.4
75°	4261.2	4308.3	5368.7	9017.2	15010.4	19687.9	19680.0	17736.0	15053.6	12249.4	9225.4
77.5°	1229.3	1264.6	1763.4	3962.7	9492.4	16793.4	17331.5	16220.0	12724.7	8730.5	4783.5
80°	538.0	565.5	765.8	1319.6	4088.4	10969.1	11440.4	10969.1	7674.1	4005.9	1877.3
82.5°	318.1	337.8	498.8	816.9	1959.8	5219.5	5855.7	5113.4	3310.8	1700.5	777.6
85°	180.7	188.5	286.7	518.4	1233.2	1826.2	2050.1	1920.5	1614.1	966.1	408.4
87.5°	82.5	86.4	141.4	243.5	691.2	616.6	640.2	848.3	934.7	589.1	204.2
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: P400351

CATALOG NUMBER: ARCH-L-PA3-270-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9	3086.9
2.5°	3083.0	3071.2	3047.6	3039.8	3028.0	3031.9	3035.9	3035.9	3039.8	3028.0	3028.0
5°	3051.6	3031.9	3008.4	3008.4	3008.4	3039.8	3067.3	3083.0	3090.8	3090.8	3083.0
7.5°	3039.8	3016.2	2988.7	2996.6	3004.4	3043.7	3094.8	3145.8	3161.5	3161.5	3153.7
10°	3063.3	3039.8	3020.1	3031.9	3051.6	3083.0	3122.3	3169.4	3208.7	3212.6	3208.7
12.5°	3118.3	3090.8	3071.2	3094.8	3118.3	3138.0	3157.6	3177.2	3228.3	3236.1	3236.1
15°	3208.7	3181.2	3157.6	3177.2	3185.1	3185.1	3185.1	3185.1	3236.1	3244.0	3244.0
17.5°	3299.0	3275.4	3251.9	3255.8	3232.2	3200.8	3189.0	3185.1	3212.6	3236.1	3240.1
20°	3385.4	3365.8	3342.2	3302.9	3244.0	3185.1	3165.5	3165.5	3181.2	3216.5	3216.5
22.5°	3479.6	3456.1	3416.8	3326.5	3228.3	3145.8	3126.2	3138.0	3157.6	3204.7	3200.8
25°	3585.7	3554.3	3487.5	3318.6	3177.2	3079.1	3083.0	3118.3	3153.7	3204.7	3204.7
27.5°	3703.5	3660.3	3526.8	3255.8	3063.3	2969.1	3004.4	3086.9	3138.0	3192.9	3200.8
30°	3833.1	3793.8	3558.2	3145.8	2878.8	2792.4	2878.8	3012.3	3090.8	3141.9	3153.7
32.5°	3990.2	3958.8	3585.7	3004.4	2639.2	2564.6	2690.2	2855.2	2980.9	3039.8	3051.6
35°	4186.6	4155.2	3621.0	2843.4	2415.3	2336.8	2450.7	2619.6	2784.5	2859.1	2882.7
37.5°	4441.8	4394.7	3652.4	2670.6	2226.8	2136.5	2191.5	2344.6	2493.9	2596.0	2623.5
40°	4767.8	4693.2	3679.9	2474.2	2061.9	1959.8	1979.4	2054.0	2140.4	2230.7	2266.1
42.5°	5227.3	5078.1	3683.9	2266.1	1893.0	1798.7	1790.9	1814.4	1814.4	1814.4	1826.2
45°	5867.5	5584.7	3691.7	2069.7	1720.2	1622.0	1598.4	1590.6	1531.7	1417.8	1409.9
47.5°	6676.5	6248.4	3727.1	1904.8	1539.5	1453.1	1421.7	1390.3	1280.3	1162.5	1138.9
50°	7713.3	7018.2	3797.8	1747.7	1386.4	1327.4	1288.2	1213.6	1091.8	1001.5	977.9
52.5°	8907.3	7933.3	3864.5	1582.7	1272.5	1233.2	1186.1	1095.7	966.1	911.1	903.3
55°	10277.9	8954.4	3998.1	1437.4	1174.3	1146.8	1103.6	1017.2	919.0	879.7	875.8
57.5°	11680.0	10097.3	4186.6	1307.8	1080.0	1064.3	1064.3	989.7	926.9	911.1	911.1
60°	13031.0	11079.1	4041.3	1186.1	993.6	1001.5	1076.1	1056.5	1009.3	1029.0	1040.8
62.5°	14079.6	11656.4	3279.3	1087.9	930.8	1001.5	1193.9	1193.9	1138.9	1131.1	1131.1
65°	14527.3	11648.6	2305.4	1013.3	907.2	1099.7	1331.4	1268.5	1123.2	1068.2	1056.5
67.5°	14413.4	11138.0	1590.6	962.2	899.4	1201.8	1394.2	1217.5	1052.5	1005.4	970.1
70°	13411.9	10058.0	1225.3	915.1	887.6	1158.6	1374.6	1158.6	997.6	954.3	922.9
72.5°	10819.9	8066.8	1017.2	867.9	840.5	1072.2	1307.8	1103.6	954.3	907.2	875.8
75°	6900.4	5074.2	860.1	805.1	750.1	962.2	1217.5	1048.6	907.2	844.4	820.8
77.5°	3318.6	2187.5	750.1	730.5	675.5	891.5	1127.2	977.9	844.4	793.3	777.6
80°	1343.2	1001.5	651.9	655.9	620.5	848.3	1064.3	911.1	781.5	726.6	699.1
82.5°	699.1	581.2	549.8	565.5	565.5	809.0	1017.2	856.2	726.6	703.0	612.7
85°	377.0	361.3	424.2	455.6	490.9	730.5	946.5	797.3	663.7	569.5	549.8
87.5°	184.6	235.6	239.6	274.9	341.7	585.2	797.3	667.7	553.8	459.5	451.6
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)