

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: P399625

Luminaire Tested: **ARCH-L-PA3-170-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21995 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

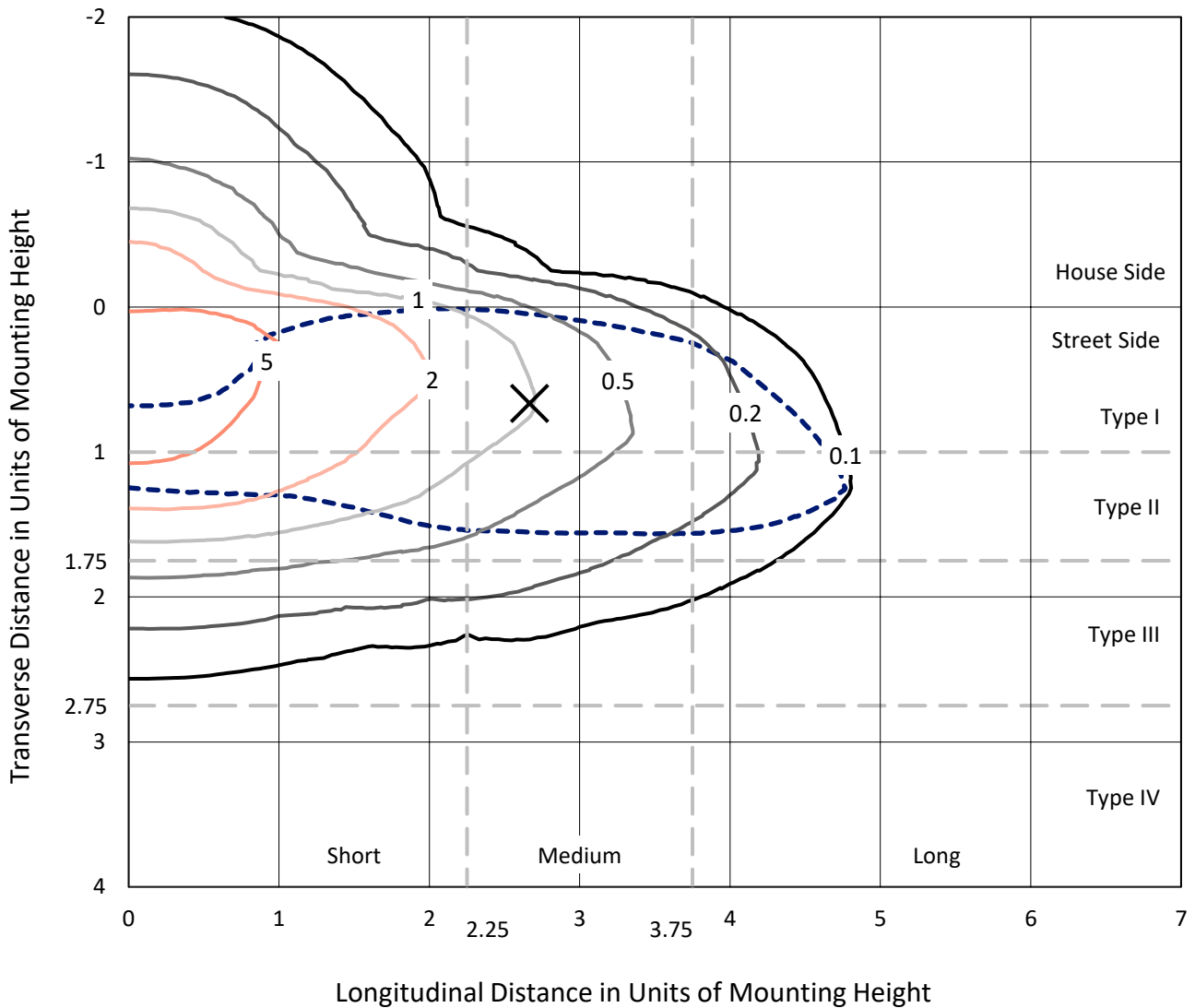
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399625
 CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

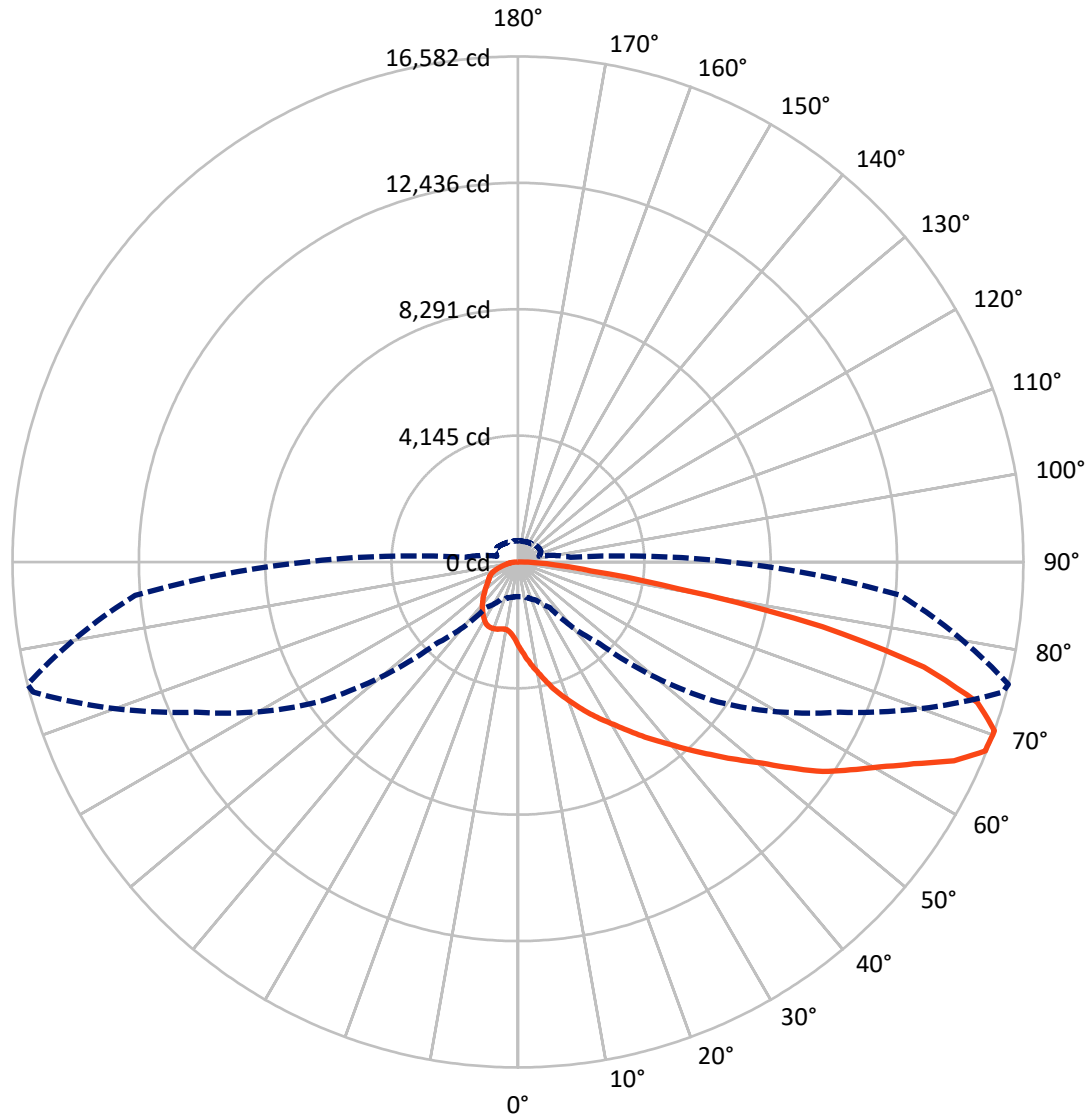
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P399625
CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P399625
 CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

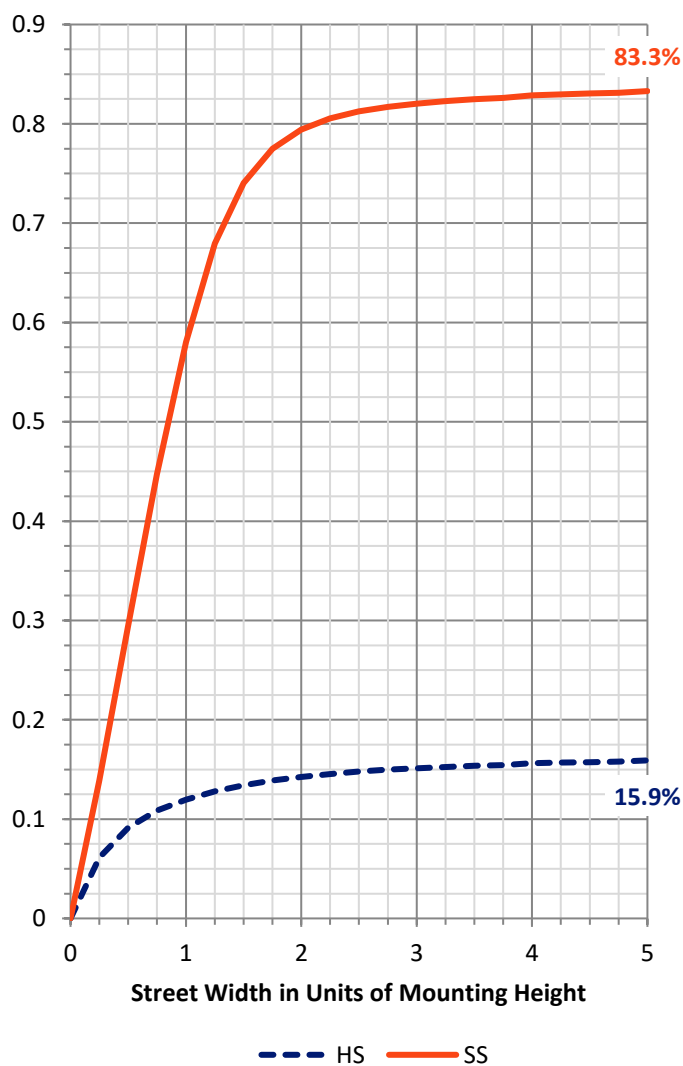
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3590.9	0.0	3590.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18404.1	0.0	18404.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	21995.0	0.0	21995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.3
10°-20°	971.3	4.4
20°-30°	1737.8	7.9
30°-40°	2811.2	12.8
40°-50°	4066.8	18.5
50°-60°	4654.7	21.2
60°-70°	4281.8	19.5
70°-80°	2647.8	12.0
80°-90°	537.7	2.4
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°	21995.0	100.0
0°-180°	21995.0	100.0

Coefficient of Utilization

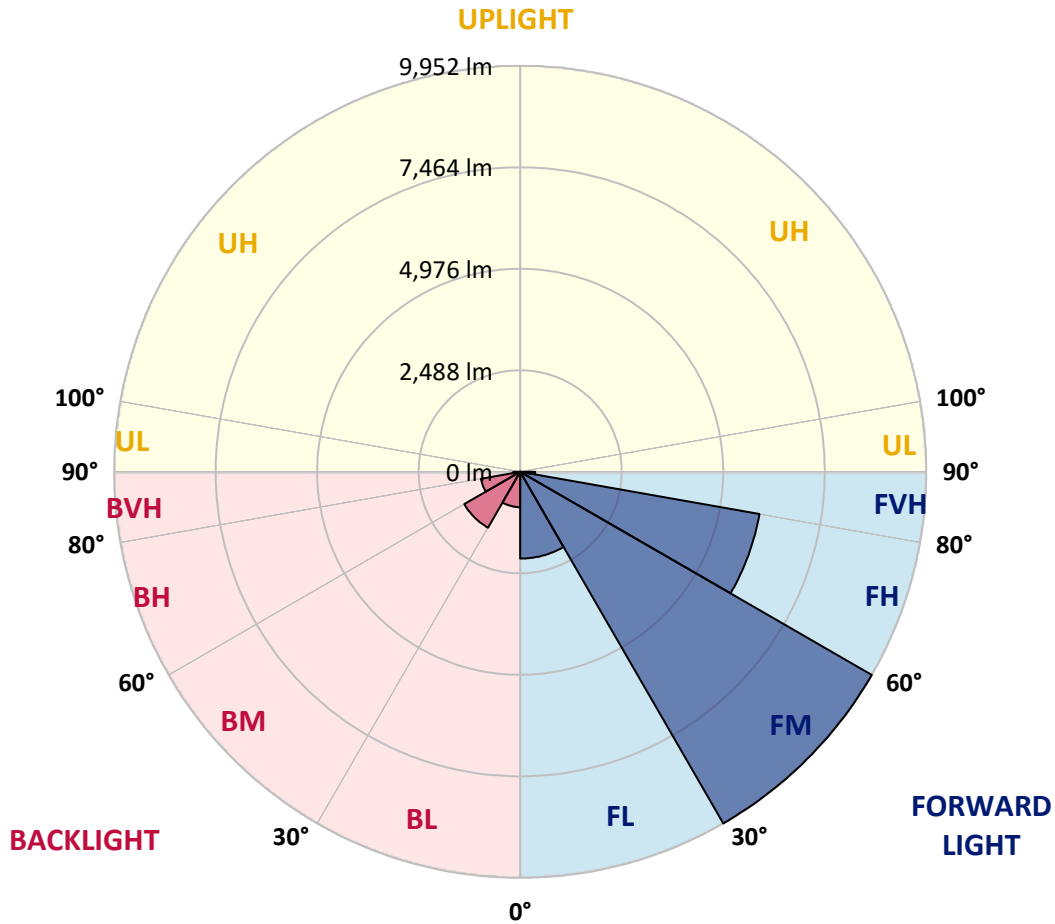


REPORT NUMBER: P399625
 CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2127.6	9.7			
FM (30°-60°)	9951.7	45.2			
FH (60°-80°)	5955.6	27.1			G3/7500
FVH (80°-90°)	369.1	1.7			G3/500
BL (0°-30°)	867.3	3.9	B2/1000		
BM (30°-60°)	1581.0	7.2	B2/2500		
BH (60°-80°)	974.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	168.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





REPORT NUMBER: P399625

CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6
2.5°	3505.5	3479.4	3476.5	3436.0	3398.4	3297.2	3224.9	3097.6	2970.4	2967.5	2840.2
5°	4052.1	4026.1	4011.6	3962.4	3898.8	3765.8	3635.6	3438.9	3222.0	3207.6	2967.5
7.5°	4422.3	4399.2	4370.3	4350.0	4289.3	4170.7	4011.6	3777.3	3479.4	3450.5	3115.0
10°	4671.1	4656.6	4650.8	4636.3	4598.7	4503.3	4350.0	4101.3	3736.8	3705.0	3271.2
12.5°	4778.1	4772.3	4798.3	4838.8	4853.3	4815.7	4668.2	4433.9	4020.3	3985.6	3459.2
15°	4653.7	4659.5	4726.0	4864.8	5012.3	5093.3	5006.6	4778.1	4341.3	4292.2	3679.0
17.5°	4595.9	4604.5	4650.8	4783.8	4992.1	5243.7	5284.2	5104.9	4650.8	4581.4	3910.4
20°	4697.1	4708.6	4743.4	4847.5	4992.1	5261.1	5472.2	5417.3	4954.5	4882.2	4133.1
22.5°	4954.5	4969.0	4966.1	5032.6	5130.9	5316.0	5576.3	5712.3	5272.6	5191.7	4364.5
25°	5504.0	5492.5	5394.1	5362.3	5388.3	5506.9	5715.2	5995.7	5605.3	5524.3	4607.4
27.5°	6250.2	6235.8	6056.5	5894.5	5749.9	5801.9	5911.8	6224.2	5943.7	5851.1	4838.8
30°	7048.5	7031.2	6822.9	6559.7	6238.7	6163.5	6149.0	6423.8	6284.9	6186.6	5084.6
32.5°	7826.5	7812.1	7589.4	7282.8	6840.3	6614.7	6475.8	6646.5	6672.5	6577.1	5353.6
35°	8535.2	8535.2	8344.3	7979.8	7479.5	7138.2	6909.7	6921.3	7117.9	7008.0	5660.2
37.5°	9165.7	9162.8	8954.5	8595.9	8115.8	7725.3	7441.9	7253.9	7543.1	7447.6	5981.3
40°	9666.0	9645.8	9492.5	9180.1	8697.1	8309.6	8023.2	7644.3	8017.4	7930.7	6322.5
42.5°	10030.5	10018.9	9914.8	9642.9	9183.0	8818.6	8621.9	8136.0	8555.4	8468.6	6721.7
45°	10172.2	10195.3	10195.3	9937.9	9573.5	9240.9	9154.1	8676.9	9136.7	9050.0	7149.7
47.5°	9943.7	10004.4	10128.8	10146.2	9825.1	9599.5	9628.4	9220.6	9735.5	9689.2	7618.3
50°	9229.3	9342.1	9614.0	10105.7	9926.3	9874.3	10033.4	9775.9	10377.5	10363.1	8188.1
52.5°	7386.9	7661.7	8509.1	9391.3	9856.9	10001.5	10435.4	10400.7	11204.7	11227.9	8931.4
55°	5666.0	5770.1	6750.6	8251.7	9431.8	9961.1	10704.4	11011.0	12101.3	12130.3	9614.0
57.5°	4581.4	4650.8	5185.9	6750.6	8462.8	9741.2	10915.5	11366.7	12789.7	12864.9	10221.4
60°	3629.8	3731.1	4089.7	5165.6	7106.4	9211.9	11063.0	11762.9	13530.1	13642.9	10947.3
62.5°	2698.5	2747.7	3086.1	3826.5	5625.5	8260.4	10984.9	12193.9	14438.3	14574.3	11820.8
65°	1920.5	1963.9	2203.9	2721.6	4159.1	6973.3	10530.8	12514.9	15577.9	15716.7	12700.1
67.5°	1437.5	1454.8	1590.8	1903.1	2802.6	5417.3	9611.1	12460.0	16410.9	16535.2	13052.9
70°	1136.7	1142.5	1209.0	1376.7	1822.1	3771.5	8000.1	11653.0	16471.6	16581.5	12607.5
72.5°	942.9	940.0	977.6	1058.6	1269.7	2386.1	5926.3	10154.8	15690.7	15765.9	11363.8
75°	778.0	783.8	809.8	856.1	968.9	1573.4	3841.0	8101.3	13842.5	13761.5	9535.9
77.5°	653.7	650.8	662.3	702.8	783.8	1130.9	2250.2	5854.0	10259.0	10218.5	6258.9
80°	526.4	532.2	549.5	584.2	659.4	861.9	1330.5	3653.0	5504.0	5356.5	2990.6
82.5°	352.9	407.8	442.5	483.0	569.8	636.3	844.5	1856.9	2461.3	2423.7	1356.5
85°	167.8	222.7	329.7	376.0	462.8	399.1	572.7	885.0	1232.1	1217.7	488.8
87.5°	34.7	34.7	176.4	211.1	286.3	170.6	318.2	384.7	595.8	558.2	199.6
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: P399625

CATALOG NUMBER: ARCH-L-PA3-170-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6
2.5°	2765.0	2686.9	2530.8	2406.4	2279.1	2206.8	2117.2	2073.8	2065.1	2042.0	2059.3
5°	2814.2	2660.9	2365.9	2172.1	2042.0	1978.3	1946.5	1934.9	1932.1	1926.3	1926.3
7.5°	2880.7	2646.4	2261.8	2065.1	1981.2	1961.0	1969.7	1987.0	1989.9	1995.7	1992.8
10°	2961.7	2649.3	2203.9	2039.1	1998.6	2001.5	2030.4	2053.5	2065.1	2073.8	2070.9
12.5°	3074.5	2684.0	2195.2	2056.4	2039.1	2050.6	2079.6	2102.7	2114.3	2117.2	2117.2
15°	3222.0	2756.4	2215.5	2094.0	2079.6	2088.2	2105.6	2114.3	2117.2	2114.3	2114.3
17.5°	3384.0	2843.1	2244.4	2117.2	2094.0	2085.3	2079.6	2070.9	2053.5	2042.0	2042.0
20°	3540.2	2921.2	2258.9	2114.3	2073.8	2039.1	2004.4	1961.0	1932.1	1908.9	1908.9
22.5°	3696.3	2993.5	2258.9	2082.4	2018.8	1952.3	1880.0	1810.6	1767.2	1738.3	1738.3
25°	3861.2	3062.9	2241.5	2027.5	1932.1	1836.6	1738.3	1651.5	1608.1	1579.2	1573.4
27.5°	4000.0	3103.4	2195.2	1949.4	1825.0	1703.6	1590.8	1501.1	1469.3	1443.3	1443.3
30°	4147.5	3129.5	2108.5	1848.2	1703.6	1564.7	1449.0	1376.7	1342.0	1304.4	1301.5
32.5°	4312.4	3146.8	2010.1	1741.2	1579.2	1431.7	1333.3	1275.5	1200.3	1159.8	1154.0
35°	4503.3	3170.0	1906.0	1619.7	1454.8	1321.8	1263.9	1168.5	1096.2	1061.5	1058.6
37.5°	4705.8	3187.3	1793.2	1512.7	1342.0	1249.5	1191.6	1078.8	1015.2	963.1	957.3
40°	4919.8	3187.3	1677.5	1408.5	1252.4	1217.7	1107.7	1006.5	899.5	873.5	867.7
42.5°	5157.0	3181.5	1561.8	1307.3	1168.5	1145.3	1058.6	951.6	896.6	873.5	867.7
45°	5408.6	3161.3	1451.9	1191.6	1081.7	1035.4	968.9	940.0	916.9	916.9	916.9
47.5°	5694.9	3143.9	1327.6	1087.5	1018.1	966.0	916.9	899.5	896.6	905.3	914.0
50°	6062.2	3138.1	1223.4	1012.3	968.9	908.2	902.4	887.9	890.8	890.8	890.8
52.5°	6507.7	3086.1	1125.1	957.3	919.7	847.4	864.8	879.3	885.0	882.1	879.3
55°	6834.5	2993.5	1041.2	919.7	885.0	824.3	847.4	870.6	876.4	867.7	867.7
57.5°	7129.5	2863.4	974.7	890.8	861.9	809.8	835.9	859.0	853.2	850.3	847.4
60°	7467.9	2739.0	922.6	876.4	838.8	804.1	827.2	841.7	833.0	827.2	824.3
62.5°	7835.2	2617.5	885.0	876.4	821.4	801.2	818.5	824.3	806.9	801.2	801.2
65°	8005.9	2426.6	844.5	876.4	812.7	795.4	801.2	795.4	778.0	778.0	775.1
67.5°	7725.3	2111.4	792.5	864.8	824.3	786.7	775.1	766.5	746.2	746.2	740.4
70°	6950.2	1735.4	717.3	827.2	827.2	783.8	740.4	720.2	697.0	705.7	694.1
72.5°	5937.9	1376.7	624.7	763.6	809.8	780.9	702.8	671.0	650.8	659.4	642.1
75°	4809.9	1067.3	514.8	662.3	766.5	766.5	665.2	621.8	598.7	598.7	578.5
77.5°	3065.8	789.6	419.4	549.5	688.4	746.2	633.4	566.9	532.2	523.5	509.0
80°	1518.5	555.3	344.2	436.7	587.1	699.9	610.3	503.3	454.1	436.7	410.7
82.5°	806.9	384.7	274.8	341.3	468.6	630.5	581.4	433.8	373.1	347.1	318.2
85°	361.5	237.2	219.8	260.3	355.8	517.7	523.5	355.8	286.3	341.3	251.6
87.5°	133.0	107.0	107.0	133.0	205.4	216.9	370.2	228.5	182.2	124.4	98.3
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)