

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: P399939

Luminaire Tested: **ARCH-L-PA3-210-750-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-750-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23865 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

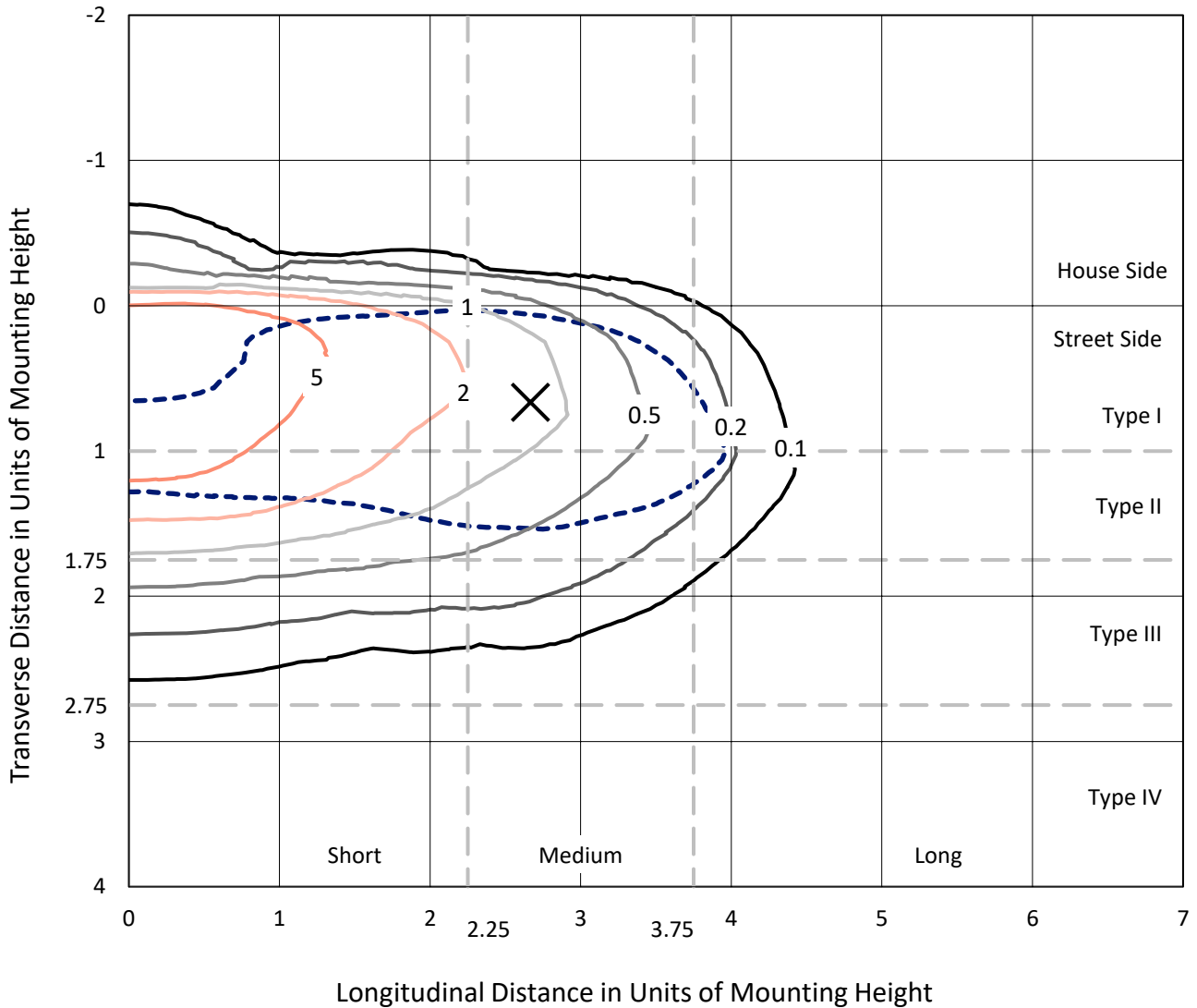
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399939
 CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

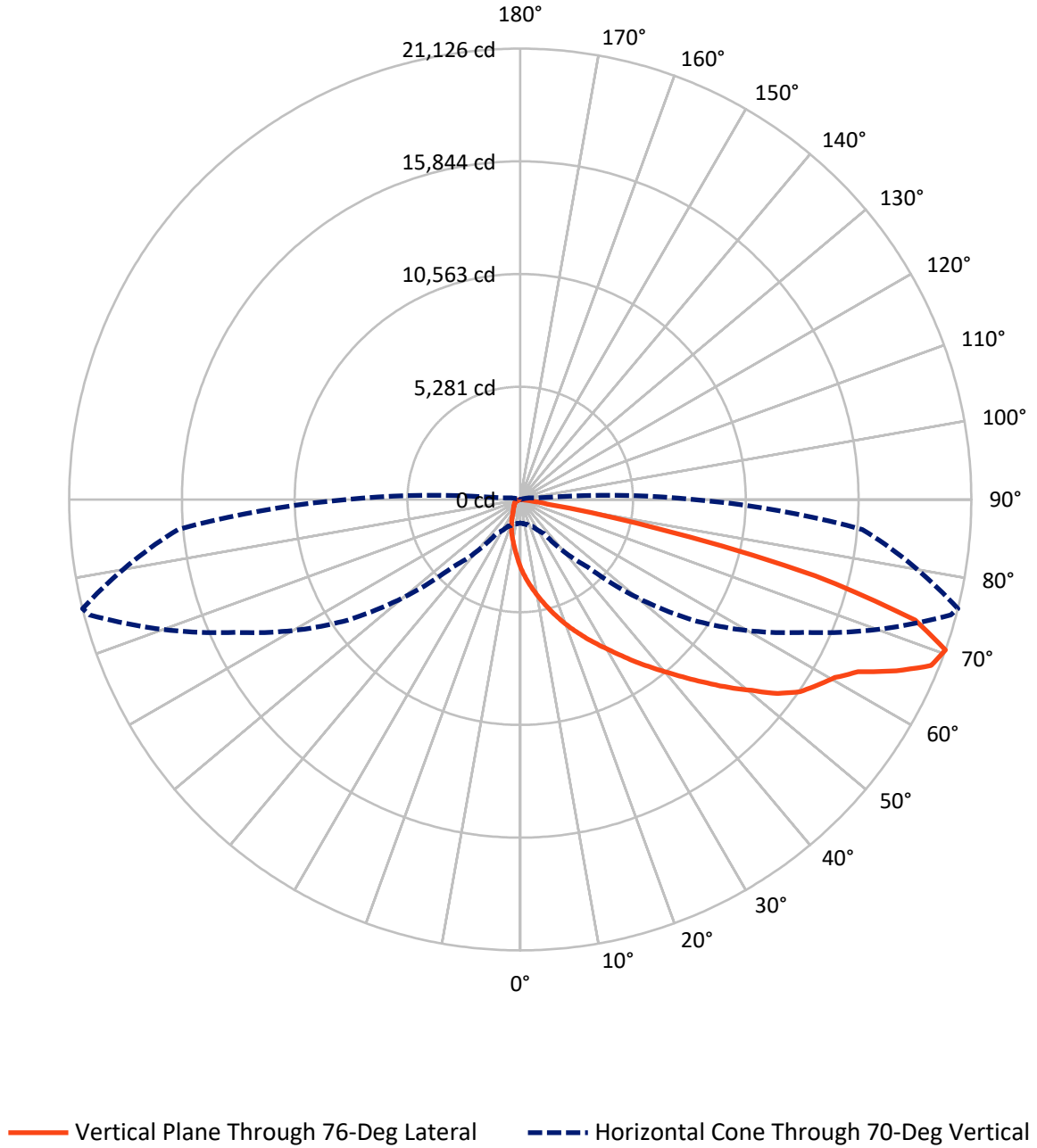
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P399939
CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P399939
 CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

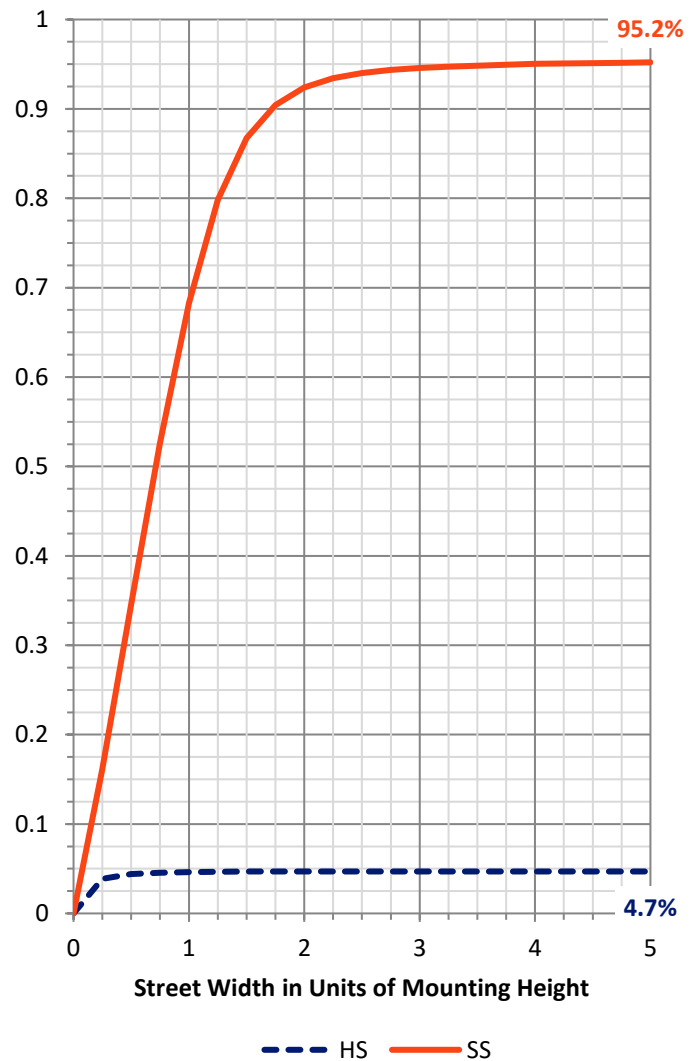
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.5	0.0	1125.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22739.5	0.0	22739.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	23865.0	0.0	23865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	1.3
10°-20°	971.3	4.1
20°-30°	1808.9	7.6
30°-40°	3199.6	13.4
40°-50°	4892.9	20.5
50°-60°	5547.3	23.2
60°-70°	4755.4	19.9
70°-80°	2303.2	9.7
80°-90°	85.4	0.4
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°	23865.0	100.0
0°-180°	23865.0	100.0



REPORT NUMBER: P399939

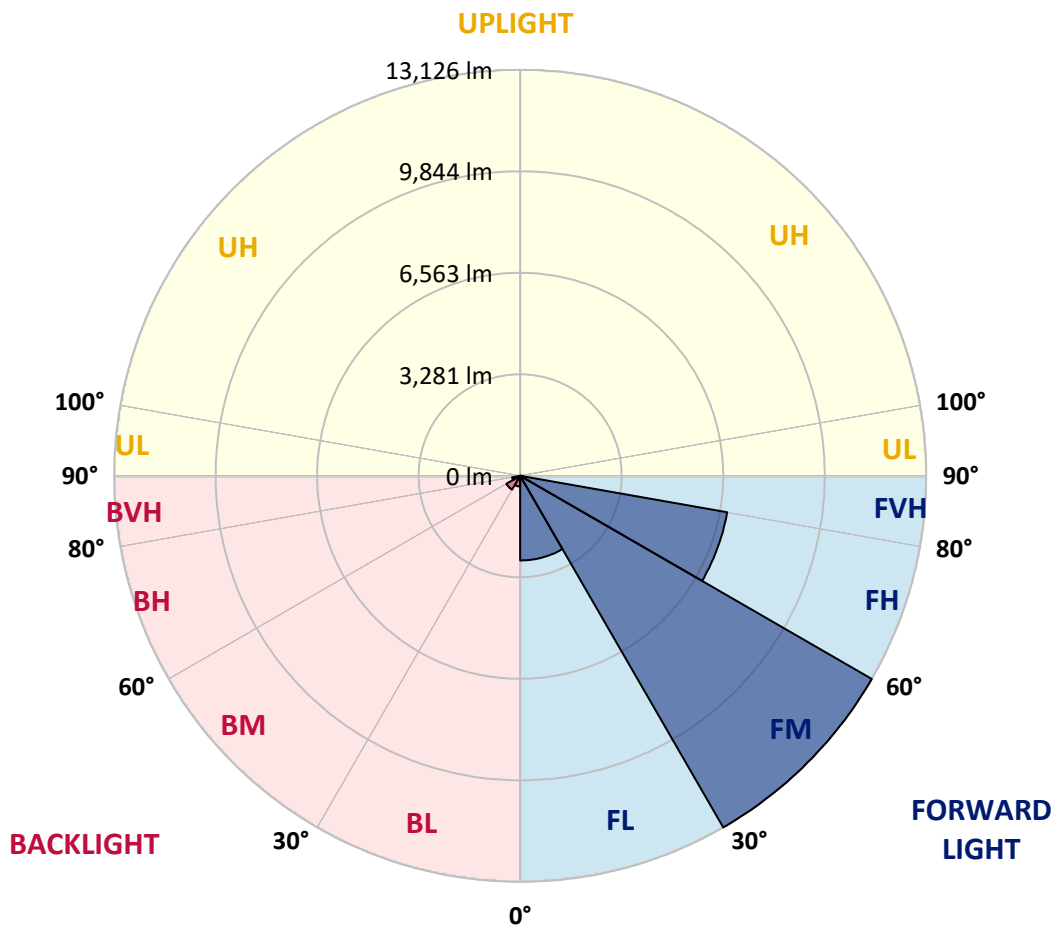
CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.9	11.5			
FM (30°-60°)	13126.0	55.0			
FH (60°-80°)	6793.7	28.5			G3/7500
FVH (80°-90°)	84.0	0.4			G1/100
BL (0°-30°)	345.3	1.4	B1/500		
BM (30°-60°)	513.8	2.2	B1/1000		
BH (60°-80°)	265.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





REPORT NUMBER: P399939

CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5
2.5°	4366.6	4342.7	4318.9	4227.5	4144.1	4068.6	3925.6	3738.8	3571.9	3536.2	3341.5
5°	5129.5	5101.6	5065.9	4974.5	4867.2	4740.1	4529.5	4243.4	3949.4	3885.8	3524.3
7.5°	5646.0	5622.1	5570.5	5526.8	5419.5	5296.3	5061.9	4728.2	4322.9	4243.4	3734.8
10°	5999.6	5983.7	5975.8	5940.0	5860.5	5761.2	5526.8	5177.1	4700.3	4609.0	3957.3
12.5°	6126.7	6126.7	6166.5	6226.1	6238.0	6206.2	5991.6	5642.0	5097.7	5002.3	4219.6
15°	5955.9	5975.8	6063.2	6253.9	6452.5	6583.7	6448.6	6122.8	5534.7	5431.4	4529.5
17.5°	5908.2	5928.1	5987.7	6154.5	6420.8	6770.4	6837.9	6587.6	5947.9	5860.5	4847.4
20°	6043.3	6063.2	6114.8	6257.9	6460.5	6814.1	7096.2	7036.6	6385.0	6293.6	5169.2
22.5°	6365.1	6377.0	6377.0	6488.3	6667.1	6929.3	7259.1	7461.7	6834.0	6734.6	5487.0
25°	7056.5	7032.6	6937.3	6881.6	6996.9	7211.4	7465.7	7835.2	7334.6	7199.5	5828.7
27.5°	7962.4	8041.8	7811.4	7545.2	7457.8	7580.9	7755.8	8165.0	7819.3	7676.3	6138.7
30°	9190.1	9158.3	8856.3	8474.9	8097.5	8053.8	8113.4	8447.1	8304.1	8169.0	6484.3
32.5°	10199.3	10258.9	9941.0	9476.2	8912.0	8645.8	8582.2	8784.8	8820.6	8733.2	6893.6
35°	11236.3	11299.9	10990.0	10473.5	9802.0	9357.0	9174.2	9202.0	9460.3	9349.0	7322.7
37.5°	12166.1	12221.7	11915.7	11387.3	10715.8	10171.5	9909.3	9694.7	10080.1	9980.8	7775.6
40°	12873.3	12881.2	12674.6	12201.8	11566.1	11001.9	10703.9	10282.7	10735.7	10668.1	8248.4
42.5°	13373.9	13389.8	13238.8	12833.6	12245.5	11721.1	11478.7	10978.1	11490.6	11431.0	8796.7
45°	13608.3	13636.2	13620.3	13246.8	12758.1	12305.1	12225.7	11717.1	12317.0	12261.4	9428.5
47.5°	13385.8	13385.8	13588.5	13536.8	13087.8	12785.9	12877.3	12487.9	13215.0	13163.3	10072.2
50°	12460.1	12472.0	12885.2	13477.2	13215.0	13147.4	13433.5	13242.8	14029.5	14061.3	10843.0
52.5°	10028.5	10008.6	11403.2	12539.5	13127.6	13310.3	13946.1	14013.6	15006.9	15102.3	11609.8
55°	7493.5	7481.6	8816.6	10878.7	12515.7	13226.9	14232.1	14701.0	15841.3	15900.9	12181.9
57.5°	5932.0	5900.3	6635.3	8768.9	11133.0	12853.4	14244.1	14832.1	16306.2	16409.5	12738.2
60°	4561.3	4533.5	5081.8	6524.1	9174.2	11860.1	13902.4	14840.0	16755.1	16937.9	13485.2
62.5°	3262.0	3293.8	3715.0	4680.5	7056.5	10457.6	13457.4	14951.3	17553.8	17760.4	14546.0
65°	2201.2	2185.3	2534.9	3186.5	5018.2	8570.3	12774.0	15185.7	18992.1	19353.6	15817.5
67.5°	1529.7	1541.6	1700.5	2074.0	3186.5	6579.7	11637.6	15316.8	20478.1	20760.2	16707.5
70°	1104.6	1120.5	1207.9	1394.6	1946.9	4461.9	9837.7	14716.9	20879.4	21125.7	16087.6
72.5°	727.1	758.9	890.0	989.3	1243.6	2793.2	7247.2	12678.6	19151.0	19333.8	13497.1
75°	393.4	401.3	572.1	739.0	886.0	1740.3	4322.9	8550.4	14327.5	14267.9	8900.1
77.5°	305.9	317.9	353.6	528.4	596.0	957.6	1708.5	3862.0	6786.3	6603.5	3035.6
80°	186.7	194.7	246.3	313.9	417.2	556.3	500.6	1048.9	1378.7	1291.3	445.0
82.5°	111.3	119.2	147.0	262.2	329.8	262.2	174.8	254.3	258.3	254.3	111.3
85°	19.9	19.9	103.3	182.8	174.8	75.5	103.3	83.4	75.5	79.5	23.8
87.5°	0.0	0.0	39.7	55.6	79.5	27.8	39.7	19.9	19.9	19.9	11.9
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: P399939

CATALOG NUMBER: ARCH-L-PA3-210-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5
2.5°	3222.3	3087.2	2809.1	2566.7	2324.3	2145.5	2010.5	1871.4	1823.7	1764.1	1732.3
5°	3277.9	3011.7	2459.4	2018.4	1644.9	1358.8	1176.1	1064.8	993.3	941.7	929.7
7.5°	3361.4	2952.1	2177.3	1581.3	1172.1	886.0	735.0	659.6	619.8	596.0	588.0
10°	3460.7	2900.5	1899.2	1231.7	826.4	623.8	540.4	508.6	492.7	484.7	480.8
12.5°	3599.8	2880.6	1664.8	949.6	623.8	512.5	468.8	449.0	437.1	425.1	421.2
15°	3782.5	2888.5	1450.2	735.0	516.5	456.9	421.2	401.3	385.4	373.5	373.5
17.5°	3973.2	2900.5	1239.7	596.0	468.8	417.2	377.5	349.6	337.7	325.8	321.8
20°	4152.0	2896.5	1037.0	508.6	425.1	373.5	333.8	305.9	286.1	274.2	274.2
22.5°	4322.9	2872.7	846.3	456.9	389.4	329.8	286.1	258.3	242.4	230.4	230.4
25°	4505.7	2825.0	691.3	417.2	345.7	290.0	246.3	218.5	206.6	194.7	194.7
27.5°	4648.7	2745.5	564.2	381.4	305.9	250.3	210.6	186.7	174.8	166.9	166.9
30°	4803.6	2630.3	468.8	341.7	266.2	214.6	178.8	158.9	147.0	143.0	143.0
32.5°	4974.5	2503.1	401.3	302.0	226.5	182.8	151.0	139.1	127.1	123.2	123.2
35°	5173.2	2391.9	361.6	262.2	198.7	155.0	131.1	119.2	111.3	111.3	111.3
37.5°	5399.6	2276.7	325.8	230.4	170.8	131.1	111.3	107.3	103.3	99.3	99.3
40°	5646.0	2153.5	294.0	202.6	147.0	111.3	95.4	95.4	91.4	91.4	91.4
42.5°	5924.1	2046.2	266.2	178.8	127.1	95.4	83.4	83.4	79.5	79.5	79.5
45°	6226.1	1946.9	242.4	158.9	111.3	83.4	75.5	71.5	67.5	67.5	67.5
47.5°	6583.7	1891.3	222.5	139.1	95.4	71.5	63.6	59.6	55.6	51.7	51.7
50°	7040.6	1915.1	202.6	115.2	83.4	59.6	51.7	47.7	43.7	39.7	39.7
52.5°	7402.1	1903.2	174.8	99.3	67.5	47.7	39.7	35.8	31.8	27.8	27.8
55°	7664.4	1855.5	151.0	83.4	51.7	39.7	31.8	23.8	19.9	19.9	19.9
57.5°	7922.6	1807.8	127.1	67.5	39.7	27.8	19.9	15.9	15.9	15.9	15.9
60°	8323.9	1740.3	111.3	55.6	31.8	19.9	11.9	11.9	7.9	7.9	7.9
62.5°	8812.6	1656.8	91.4	47.7	23.8	15.9	7.9	7.9	0.0	0.0	0.0
65°	9349.0	1509.8	75.5	35.8	19.9	11.9	7.9	0.0	0.0	0.0	0.0
67.5°	9225.9	1211.8	63.6	23.8	15.9	7.9	4.0	0.0	0.0	0.0	0.0
70°	8161.0	818.5	51.7	19.9	11.9	7.9	4.0	0.0	0.0	0.0	0.0
72.5°	6392.9	484.7	35.8	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	4092.4	242.4	23.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	1370.8	119.2	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	194.7	39.7	7.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	15.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)