

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: P399921

Luminaire Tested: **ARCH-L-PA3-210-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399921
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-PA3-210-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 21734 lumens
Efficiency: N/A
Efficacy: 103.0 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

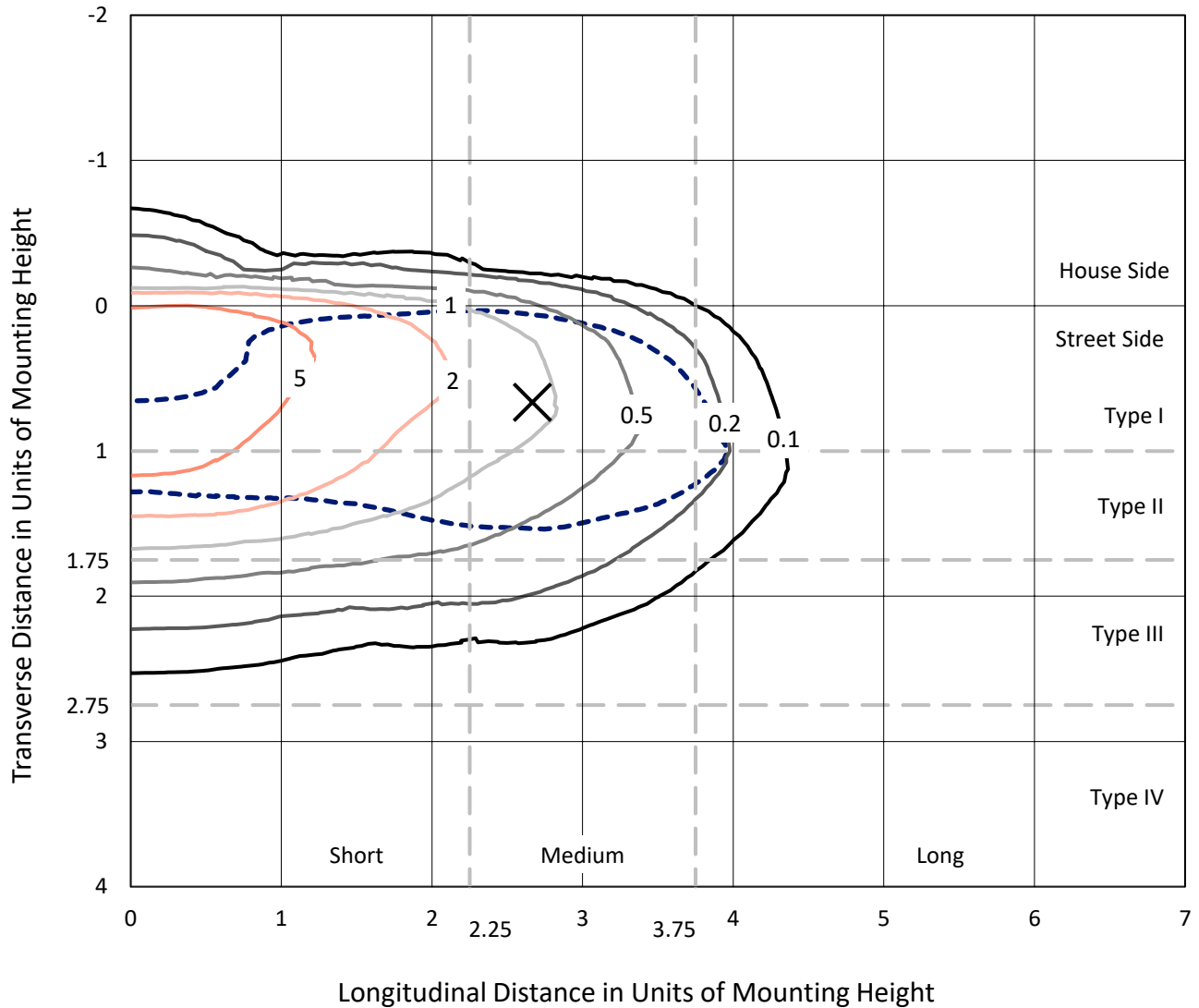
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

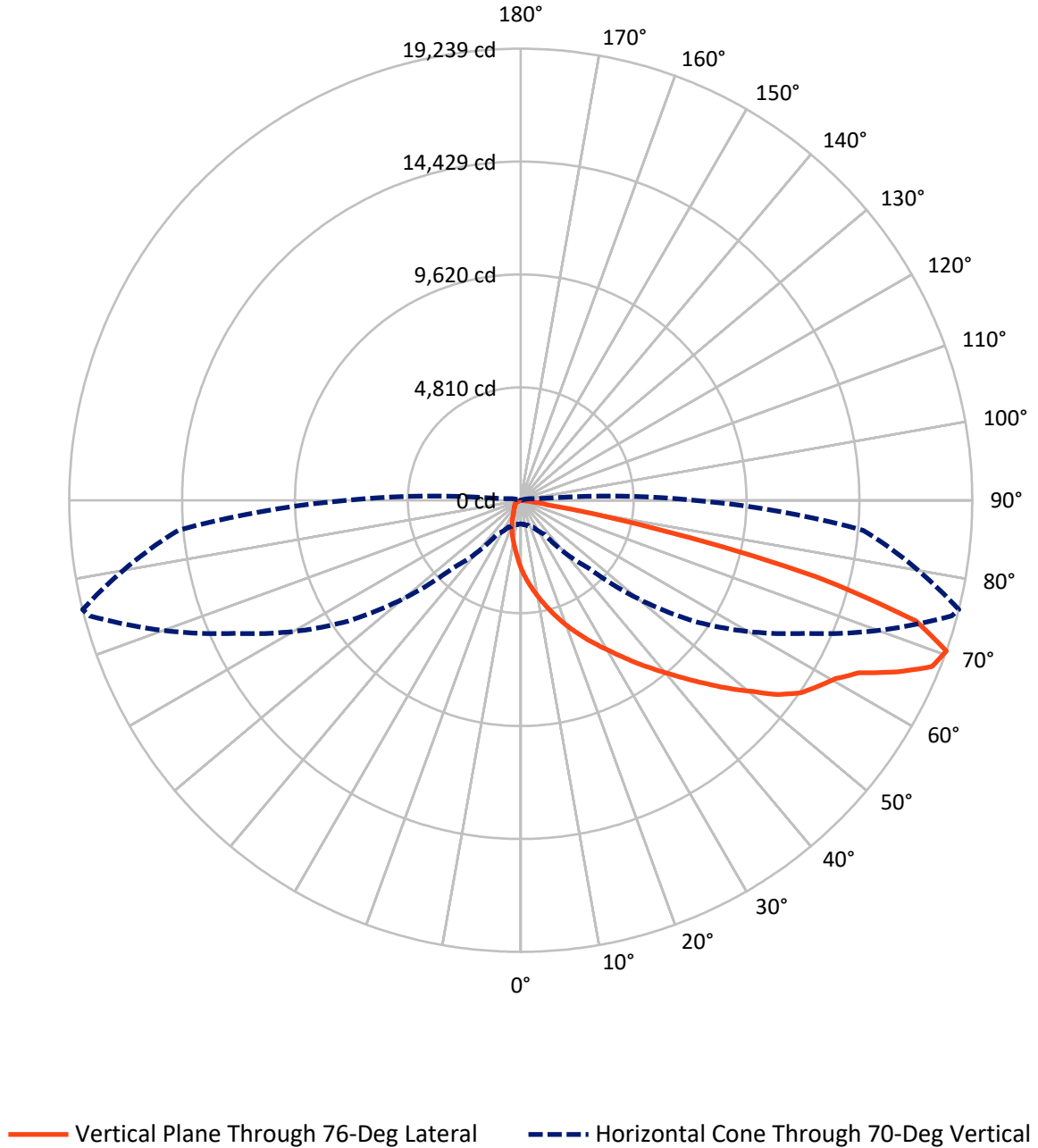
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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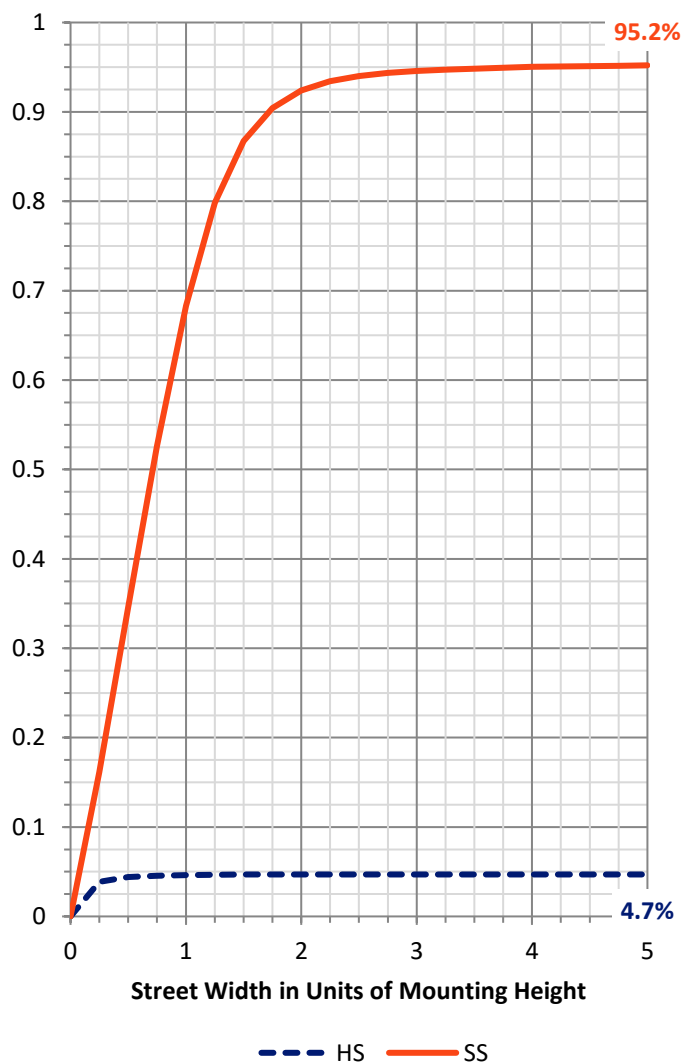
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1025.0	0.0	1025.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20709.0	0.0	20709.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	21734.0	0.0	21734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.3
10°-20°	884.6	4.1
20°-30°	1647.4	7.6
30°-40°	2913.8	13.4
40°-50°	4456.0	20.5
50°-60°	5052.0	23.2
60°-70°	4330.8	19.9
70°-80°	2097.6	9.7
80°-90°	77.8	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°	21734.0	100.0
0°-180°	21734.0	100.0

Coefficient of Utilization



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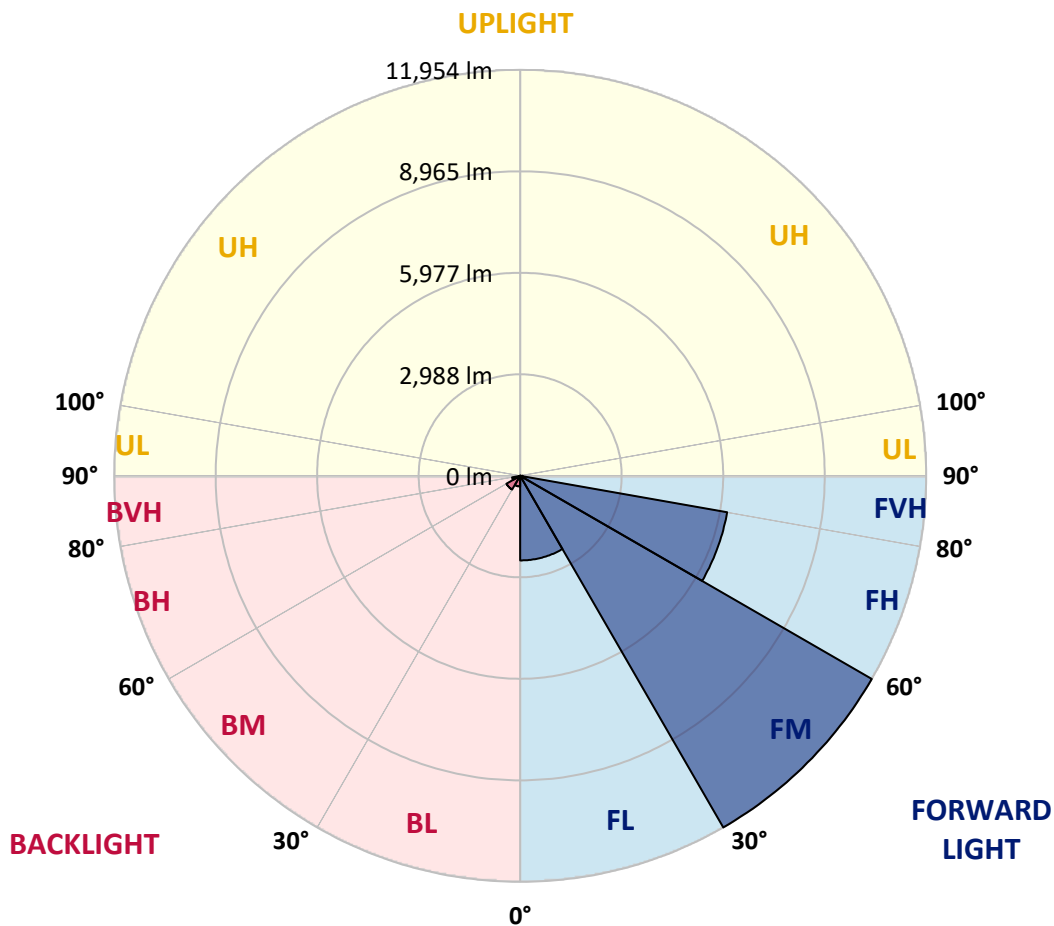
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.6	11.5			
FM (30°-60°)	11953.9	55.0			
FH (60°-80°)	6187.0	28.5			G3/7500
FVH (80°-90°)	76.5	0.4			G1/100
BL (0°-30°)	314.4	1.4	B1/500		
BM (30°-60°)	467.9	2.2	B1/1000		
BH (60°-80°)	241.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2
2.5°	3976.7	3955.0	3933.3	3850.0	3774.0	3705.3	3575.0	3405.0	3253.0	3220.4	3043.1
5°	4671.4	4646.1	4613.5	4530.3	4432.6	4316.8	4125.0	3864.5	3596.7	3538.8	3209.6
7.5°	5141.8	5120.1	5073.1	5033.3	4935.6	4823.4	4609.9	4306.0	3936.9	3864.5	3401.3
10°	5463.9	5449.4	5442.2	5409.6	5337.2	5246.8	5033.3	4714.8	4280.6	4197.4	3604.0
12.5°	5579.7	5579.7	5615.8	5670.1	5681.0	5652.0	5456.6	5138.2	4642.5	4555.6	3842.8
15°	5424.1	5442.2	5521.8	5695.4	5876.4	5995.8	5872.7	5576.0	5040.5	4946.4	4125.0
17.5°	5380.6	5398.7	5453.0	5605.0	5847.4	6165.8	6227.4	5999.4	5416.8	5337.2	4414.5
20°	5503.7	5521.8	5568.8	5699.1	5883.6	6205.6	6462.6	6408.3	5814.9	5731.6	4707.6
22.5°	5796.8	5807.6	5807.6	5908.9	6071.8	6310.6	6610.9	6795.5	6223.7	6133.3	4997.1
25°	6426.4	6404.7	6317.8	6267.2	6372.1	6567.5	6799.1	7135.6	6679.7	6556.6	5308.3
27.5°	7251.4	7323.7	7113.9	6871.4	6791.8	6904.0	7063.2	7435.9	7121.1	6990.8	5590.5
30°	8369.5	8340.5	8065.5	7718.2	7374.4	7334.6	7388.9	7692.8	7562.6	7439.5	5905.3
32.5°	9288.6	9342.8	9053.4	8630.0	8116.2	7873.8	7815.9	8000.4	8033.0	7953.4	6278.0
35°	10233.0	10290.9	10008.6	9538.2	8926.7	8521.5	8355.0	8380.3	8615.5	8514.2	6668.8
37.5°	11079.7	11130.4	10851.7	10370.5	9759.0	9263.2	9024.4	8829.0	9180.0	9089.6	7081.3
40°	11723.8	11731.0	11542.9	11112.3	10533.3	10019.5	9748.1	9364.6	9777.1	9715.5	7511.9
42.5°	12179.7	12194.2	12056.7	11687.6	11152.1	10674.4	10453.7	9997.8	10464.6	10410.3	8011.3
45°	12393.2	12418.5	12404.1	12063.9	11618.8	11206.3	11134.0	10670.8	11217.2	11166.5	8586.6
47.5°	12190.6	12190.6	12375.1	12328.1	11919.2	11644.2	11727.4	11372.8	12035.0	11987.9	9172.8
50°	11347.5	11358.3	11734.6	12273.8	12035.0	11973.5	12234.0	12060.3	12776.8	12805.7	9874.8
52.5°	9133.0	9114.9	10385.0	11419.8	11955.4	12121.8	12700.8	12762.3	13666.9	13753.7	10573.1
55°	6824.4	6813.5	8029.3	9907.3	11398.1	12045.8	12961.3	13388.3	14426.8	14481.0	11094.2
57.5°	5402.3	5373.4	6042.8	7985.9	10138.9	11705.7	12972.2	13507.7	14850.1	14944.2	11600.8
60°	4154.0	4128.7	4628.0	5941.5	8355.0	10801.1	12661.0	13514.9	15259.0	15425.5	12281.0
62.5°	2970.7	2999.7	3383.3	4262.5	6426.4	9523.8	12255.7	13616.2	15986.3	16174.5	13247.2
65°	2004.6	1990.1	2308.6	2902.0	4570.1	7805.0	11633.3	13829.7	17296.2	17625.5	14405.1
67.5°	1393.1	1404.0	1548.7	1888.8	2902.0	5992.2	10598.4	13949.1	18649.5	18906.4	15215.6
70°	1005.9	1020.4	1100.0	1270.1	1773.0	4063.5	8959.3	13402.7	19015.0	19239.3	14651.1
72.5°	662.2	691.1	810.5	901.0	1132.6	2543.8	6600.1	11546.5	17440.9	17607.4	12291.9
75°	358.2	365.5	521.1	673.0	806.9	1584.9	3936.9	7786.9	13048.1	12993.9	8105.3
77.5°	278.6	289.5	322.0	481.3	542.8	872.0	1555.9	3517.1	6180.3	6013.9	2764.5
80°	170.1	177.3	224.3	285.9	379.9	506.6	455.9	955.3	1255.6	1176.0	405.3
82.5°	101.3	108.6	133.9	238.8	300.3	238.8	159.2	231.6	235.2	231.6	101.3
85°	18.1	18.1	94.1	166.4	159.2	68.8	94.1	76.0	68.8	72.4	21.7
87.5°	0.0	0.0	36.2	50.7	72.4	25.3	36.2	18.1	18.1	18.1	10.9
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°	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2
2.5°	2934.6	2811.5	2558.2	2337.5	2116.8	1954.0	1830.9	1704.3	1660.9	1606.6	1577.6
5°	2985.2	2742.8	2239.8	1838.2	1498.0	1237.5	1071.1	969.7	904.6	857.6	846.7
7.5°	3061.2	2688.5	1982.9	1440.1	1067.4	806.9	669.4	600.7	564.5	542.8	535.5
10°	3151.7	2641.5	1729.6	1121.7	752.6	568.1	492.1	463.2	448.7	441.5	437.8
12.5°	3278.3	2623.4	1516.1	864.8	568.1	466.8	427.0	408.9	398.0	387.2	383.6
15°	3444.8	2630.6	1320.7	669.4	470.4	416.1	383.6	365.5	351.0	340.1	340.1
17.5°	3618.5	2641.5	1129.0	542.8	427.0	379.9	343.8	318.4	307.6	296.7	293.1
20°	3781.3	2637.9	944.4	463.2	387.2	340.1	303.9	278.6	260.5	249.7	249.7
22.5°	3936.9	2616.1	770.7	416.1	354.6	300.3	260.5	235.2	220.7	209.9	209.9
25°	4103.3	2572.7	629.6	379.9	314.8	264.1	224.3	199.0	188.2	177.3	177.3
27.5°	4233.6	2500.4	513.8	347.4	278.6	228.0	191.8	170.1	159.2	152.0	152.0
30°	4374.7	2395.4	427.0	311.2	242.4	195.4	162.8	144.7	133.9	130.3	130.3
32.5°	4530.3	2279.6	365.5	275.0	206.3	166.4	137.5	126.6	115.8	112.2	112.2
35°	4711.2	2178.3	329.3	238.8	180.9	141.1	119.4	108.6	101.3	101.3	101.3
37.5°	4917.5	2073.4	296.7	209.9	155.6	119.4	101.3	97.7	94.1	90.5	90.5
40°	5141.8	1961.2	267.8	184.5	133.9	101.3	86.8	86.8	83.2	83.2	83.2
42.5°	5395.1	1863.5	242.4	162.8	115.8	86.8	76.0	76.0	72.4	72.4	72.4
45°	5670.1	1773.0	220.7	144.7	101.3	76.0	68.8	65.1	61.5	61.5	61.5
47.5°	5995.8	1722.4	202.6	126.6	86.8	65.1	57.9	54.3	50.7	47.0	47.0
50°	6411.9	1744.1	184.5	104.9	76.0	54.3	47.0	43.4	39.8	36.2	36.2
52.5°	6741.2	1733.2	159.2	90.5	61.5	43.4	36.2	32.6	28.9	25.3	25.3
55°	6980.0	1689.8	137.5	76.0	47.0	36.2	28.9	21.7	18.1	18.1	18.1
57.5°	7215.2	1646.4	115.8	61.5	36.2	25.3	18.1	14.5	14.5	14.5	14.5
60°	7580.7	1584.9	101.3	50.7	28.9	18.1	10.9	10.9	7.2	7.2	7.2
62.5°	8025.7	1508.9	83.2	43.4	21.7	14.5	7.2	7.2	0.0	0.0	0.0
65°	8514.2	1375.0	68.8	32.6	18.1	10.9	7.2	0.0	0.0	0.0	0.0
67.5°	8402.0	1103.6	57.9	21.7	14.5	7.2	3.6	0.0	0.0	0.0	0.0
70°	7432.3	745.4	47.0	18.1	10.9	7.2	3.6	0.0	0.0	0.0	0.0
72.5°	5822.1	441.5	32.6	14.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0
75°	3727.0	220.7	21.7	10.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	1248.4	108.6	14.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	177.3	36.2	7.2	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	14.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.6	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)