

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: P399912

Luminaire Tested: **ARCH-L-PA3-210-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399912
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-PA3-210-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 19959 lumens
Efficiency: N/A
Efficacy: 94.6 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

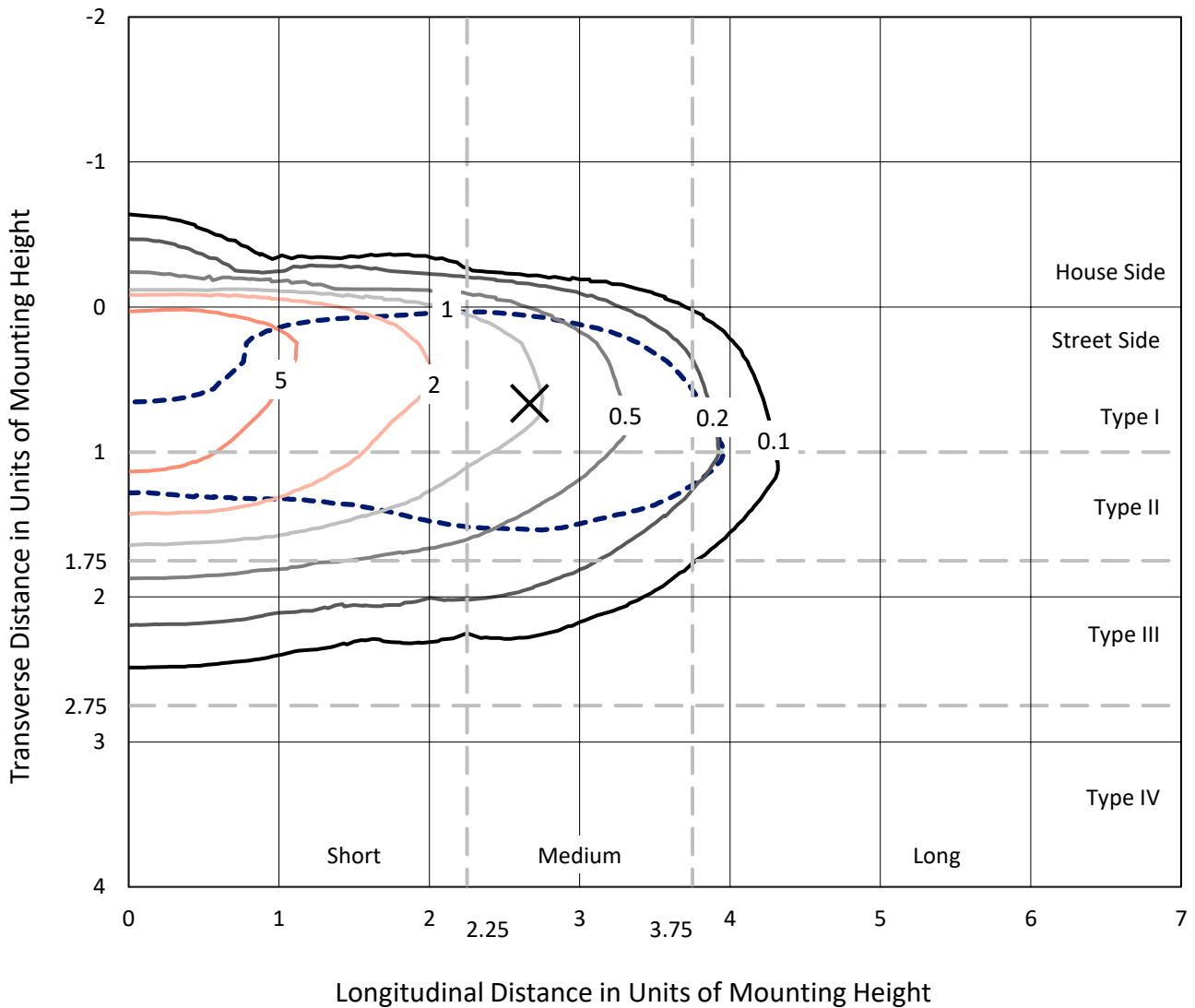
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

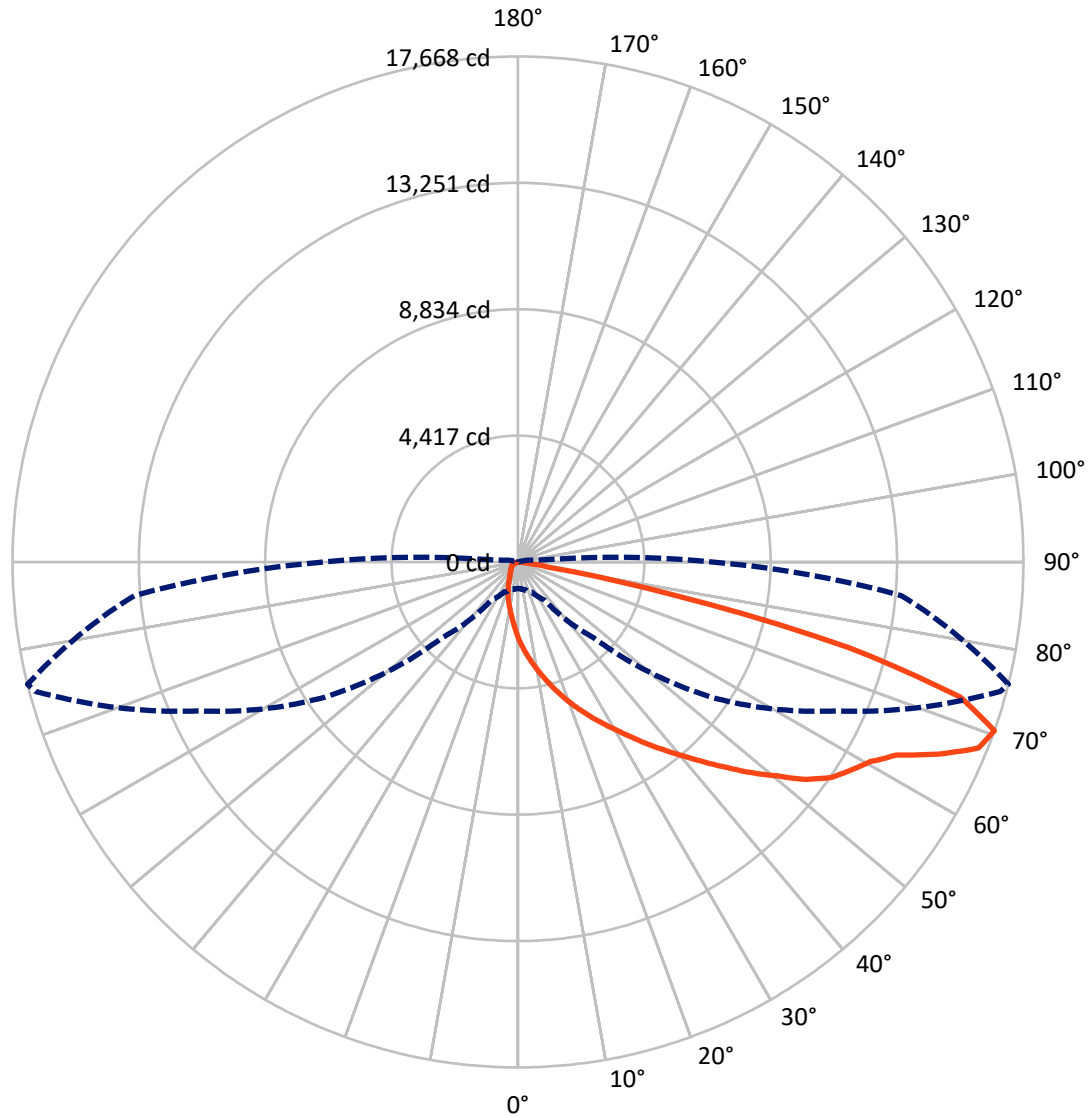
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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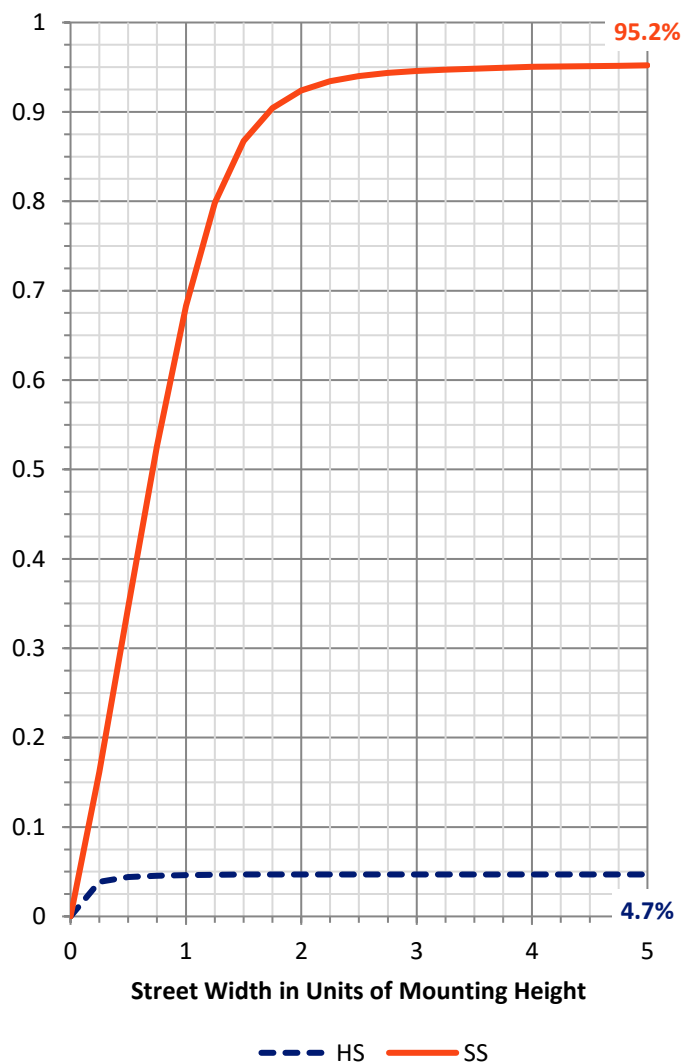
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.3	0.0	941.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19017.7	0.0	19017.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	19959.0	0.0	19959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.3
10°-20°	812.3	4.1
20°-30°	1512.8	7.6
30°-40°	2675.9	13.4
40°-50°	4092.0	20.5
50°-60°	4639.4	23.2
60°-70°	3977.1	19.9
70°-80°	1926.3	9.7
80°-90°	71.5	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°	19959.0	100.0
0°-180°	19959.0	100.0

Coefficient of Utilization

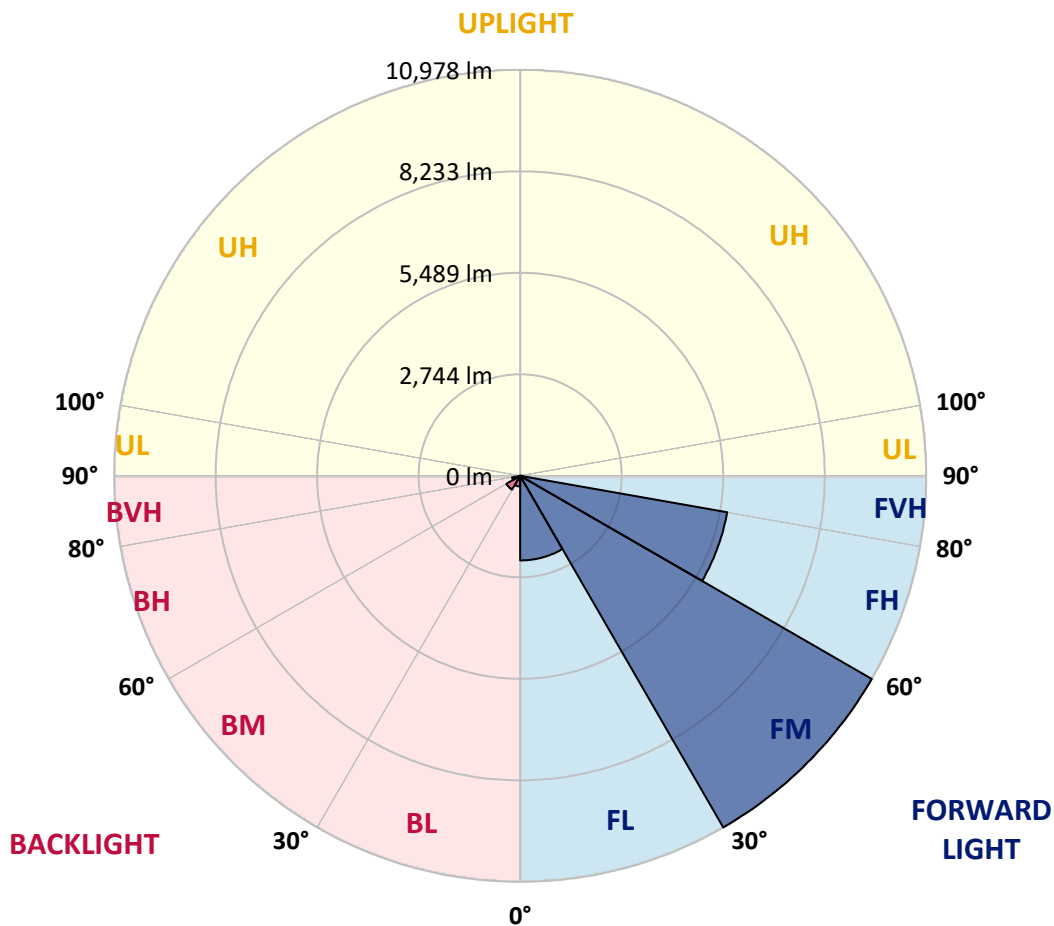


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2288.1	11.5			
FM (30°-60°)	10977.6	55.0			
FH (60°-80°)	5681.7	28.5			G3/7500
FVH (80°-90°)	70.2	0.4			G1/100
BL (0°-30°)	288.8	1.4	B1/500		
BM (30°-60°)	429.7	2.2	B1/1000		
BH (60°-80°)	221.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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°	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6
2.5°	3651.9	3632.0	3612.0	3535.6	3465.8	3402.7	3283.1	3126.9	2987.3	2957.4	2794.6
5°	4289.9	4266.6	4236.7	4160.3	4070.6	3964.3	3788.1	3548.9	3303.0	3249.8	2947.4
7.5°	4721.9	4702.0	4658.8	4622.2	4532.5	4429.5	4233.4	3954.3	3615.4	3548.9	3123.6
10°	5017.6	5004.3	4997.7	4967.8	4901.3	4818.3	4622.2	4329.8	3931.0	3854.6	3309.6
12.5°	5124.0	5124.0	5157.2	5207.0	5217.0	5190.4	5011.0	4718.6	4263.3	4183.6	3529.0
15°	4981.1	4997.7	5070.8	5230.3	5396.4	5506.1	5393.1	5120.6	4628.8	4542.5	3788.1
17.5°	4941.2	4957.8	5007.7	5147.2	5369.9	5662.3	5718.8	5509.4	4974.4	4901.3	4054.0
20°	5054.2	5070.8	5114.0	5233.6	5403.1	5698.8	5934.8	5884.9	5340.0	5263.5	4323.1
22.5°	5323.3	5333.3	5333.3	5426.4	5575.9	5795.2	6071.0	6240.5	5715.4	5632.4	4589.0
25°	5901.5	5881.6	5801.8	5755.3	5851.7	6031.1	6243.8	6552.8	6134.1	6021.2	4874.7
27.5°	6659.2	6725.6	6532.9	6310.3	6237.2	6340.2	6486.4	6828.6	6539.5	6419.9	5133.9
30°	7686.0	7659.4	7406.8	7087.8	6772.1	6735.6	6785.4	7064.6	6944.9	6832.0	5423.0
32.5°	8530.0	8579.8	8314.0	7925.2	7453.3	7230.7	7177.5	7347.0	7376.9	7303.8	5765.3
35°	9397.3	9450.4	9191.2	8759.3	8197.7	7825.5	7672.7	7695.9	7911.9	7818.9	6124.2
37.5°	10174.8	10221.4	9965.5	9523.5	8962.0	8506.7	8287.4	8108.0	8430.3	8347.2	6503.0
40°	10766.3	10773.0	10600.2	10204.7	9673.1	9201.2	8952.0	8599.8	8978.6	8922.1	6898.4
42.5°	11185.0	11198.3	11072.0	10733.1	10241.3	9802.7	9600.0	9181.3	9609.9	9560.1	7357.0
45°	11381.1	11404.3	11391.0	11078.7	10669.9	10291.1	10224.7	9799.3	10301.1	10254.6	7885.3
47.5°	11195.0	11195.0	11364.4	11321.2	10945.8	10693.2	10769.6	10444.0	11052.1	11008.9	8423.6
50°	10420.7	10430.7	10776.3	11271.4	11052.1	10995.6	11234.8	11075.3	11733.3	11759.9	9068.3
52.5°	8387.1	8370.5	9536.8	10487.2	10979.0	11131.8	11663.5	11720.0	12550.7	12630.5	9709.6
55°	6267.1	6257.1	7373.6	9098.2	10467.2	11062.1	11902.8	12294.9	13248.5	13298.4	10188.1
57.5°	4961.1	4934.6	5549.3	7333.7	9310.9	10749.7	11912.7	12404.5	13637.3	13723.7	10653.3
60°	3814.7	3791.5	4250.0	5456.3	7672.7	9919.0	11627.0	12411.2	14012.8	14165.7	11278.0
62.5°	2728.1	2754.7	3106.9	3914.4	5901.5	8746.0	11254.8	12504.2	14680.7	14853.5	12165.3
65°	1840.9	1827.6	2120.0	2665.0	4196.9	7167.6	10683.2	12700.3	15883.6	16186.0	13228.6
67.5°	1279.3	1289.3	1422.2	1734.6	2665.0	5502.8	9732.9	12809.9	17126.4	17362.3	13972.9
70°	923.8	937.1	1010.2	1166.4	1628.2	3731.7	8227.6	12308.2	17462.0	17668.0	13454.6
72.5°	608.1	634.7	744.3	827.4	1040.1	2336.0	6061.0	10603.5	16016.6	16169.4	11288.0
75°	329.0	335.6	478.5	618.1	741.0	1455.4	3615.4	7151.0	11982.5	11932.7	7443.4
77.5°	255.9	265.8	295.7	442.0	498.4	800.8	1428.9	3229.9	5675.6	5522.7	2538.7
80°	156.2	162.8	206.0	262.5	348.9	465.2	418.7	877.3	1153.1	1080.0	372.2
82.5°	93.0	99.7	122.9	219.3	275.8	219.3	146.2	212.7	216.0	212.7	93.0
85°	16.6	16.6	86.4	152.9	146.2	63.1	86.4	69.8	63.1	66.5	19.9
87.5°	0.0	0.0	33.2	46.5	66.5	23.3	33.2	16.6	16.6	16.6	10.0
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°	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6
2.5°	2694.9	2581.9	2349.3	2146.6	1943.9	1794.4	1681.4	1565.1	1525.2	1475.4	1448.8
5°	2741.4	2518.8	2056.9	1688.1	1375.7	1136.4	983.6	890.5	830.7	787.5	777.6
7.5°	2811.2	2468.9	1821.0	1322.5	980.3	741.0	614.7	551.6	518.4	498.4	491.8
10°	2894.3	2425.7	1588.4	1030.1	691.2	521.7	451.9	425.3	412.0	405.4	402.1
12.5°	3010.6	2409.1	1392.3	794.2	521.7	428.7	392.1	375.5	365.5	355.6	352.2
15°	3163.4	2415.8	1212.9	614.7	432.0	382.1	352.2	335.6	322.3	312.4	312.4
17.5°	3322.9	2425.7	1036.8	498.4	392.1	348.9	315.7	292.4	282.4	272.5	269.2
20°	3472.5	2422.4	867.3	425.3	355.6	312.4	279.1	255.9	239.3	229.3	229.3
22.5°	3615.4	2402.5	707.8	382.1	325.6	275.8	239.3	216.0	202.7	192.7	192.7
25°	3768.2	2362.6	578.2	348.9	289.1	242.6	206.0	182.8	172.8	162.8	162.8
27.5°	3887.8	2296.1	471.9	319.0	255.9	209.3	176.1	156.2	146.2	139.6	139.6
30°	4017.4	2199.8	392.1	285.8	222.6	179.4	149.5	132.9	122.9	119.6	119.6
32.5°	4160.3	2093.4	335.6	252.5	189.4	152.9	126.3	116.3	106.3	103.0	103.0
35°	4326.5	2000.4	302.4	219.3	166.1	129.6	109.7	99.7	93.0	93.0	93.0
37.5°	4515.9	1904.0	272.5	192.7	142.9	109.7	93.0	89.7	86.4	83.1	83.1
40°	4721.9	1801.0	245.9	169.5	122.9	93.0	79.8	79.8	76.4	76.4	76.4
42.5°	4954.5	1711.3	222.6	149.5	106.3	79.8	69.8	69.8	66.5	66.5	66.5
45°	5207.0	1628.2	202.7	132.9	93.0	69.8	63.1	59.8	56.5	56.5	56.5
47.5°	5506.1	1581.7	186.1	116.3	79.8	59.8	53.2	49.8	46.5	43.2	43.2
50°	5888.2	1601.7	169.5	96.4	69.8	49.8	43.2	39.9	36.6	33.2	33.2
52.5°	6190.6	1591.7	146.2	83.1	56.5	39.9	33.2	29.9	26.6	23.3	23.3
55°	6409.9	1551.8	126.3	69.8	43.2	33.2	26.6	19.9	16.6	16.6	16.6
57.5°	6625.9	1511.9	106.3	56.5	33.2	23.3	16.6	13.3	13.3	13.3	13.3
60°	6961.6	1455.4	93.0	46.5	26.6	16.6	10.0	10.0	6.6	6.6	6.6
62.5°	7370.3	1385.7	76.4	39.9	19.9	13.3	6.6	6.6	0.0	0.0	0.0
65°	7818.9	1262.7	63.1	29.9	16.6	10.0	6.6	0.0	0.0	0.0	0.0
67.5°	7715.9	1013.5	53.2	19.9	13.3	6.6	3.3	0.0	0.0	0.0	0.0
70°	6825.3	684.5	43.2	16.6	10.0	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	5346.6	405.4	29.9	13.3	6.6	3.3	0.0	0.0	0.0	0.0	0.0
75°	3422.6	202.7	19.9	10.0	6.6	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1146.4	99.7	13.3	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	162.8	33.2	6.6	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	13.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	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)