

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: P400065

Luminaire Tested: **ARCH-L-PA3-230-730-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400065  
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-PA3-230-730-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 980mA 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: 23060 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

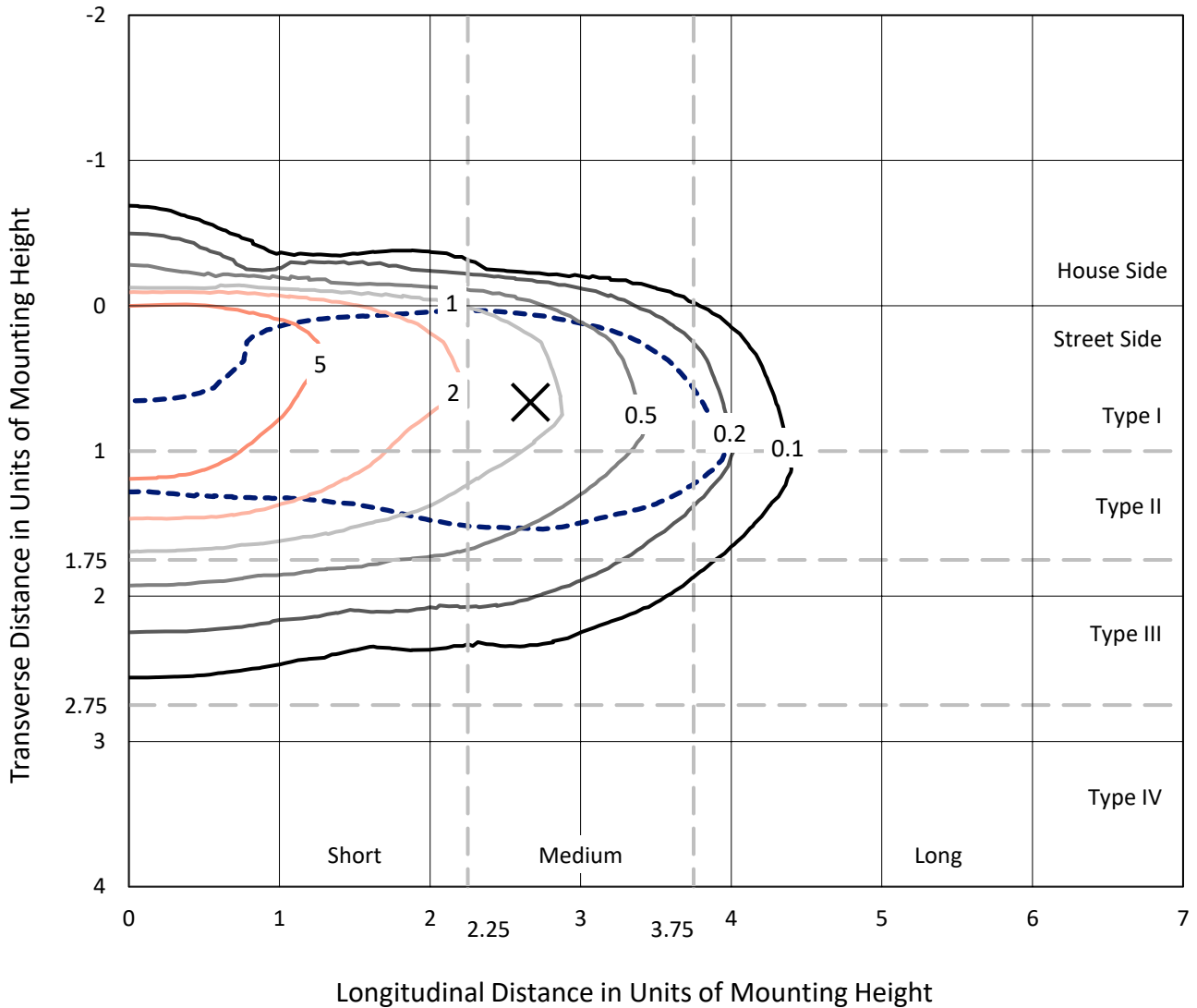
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

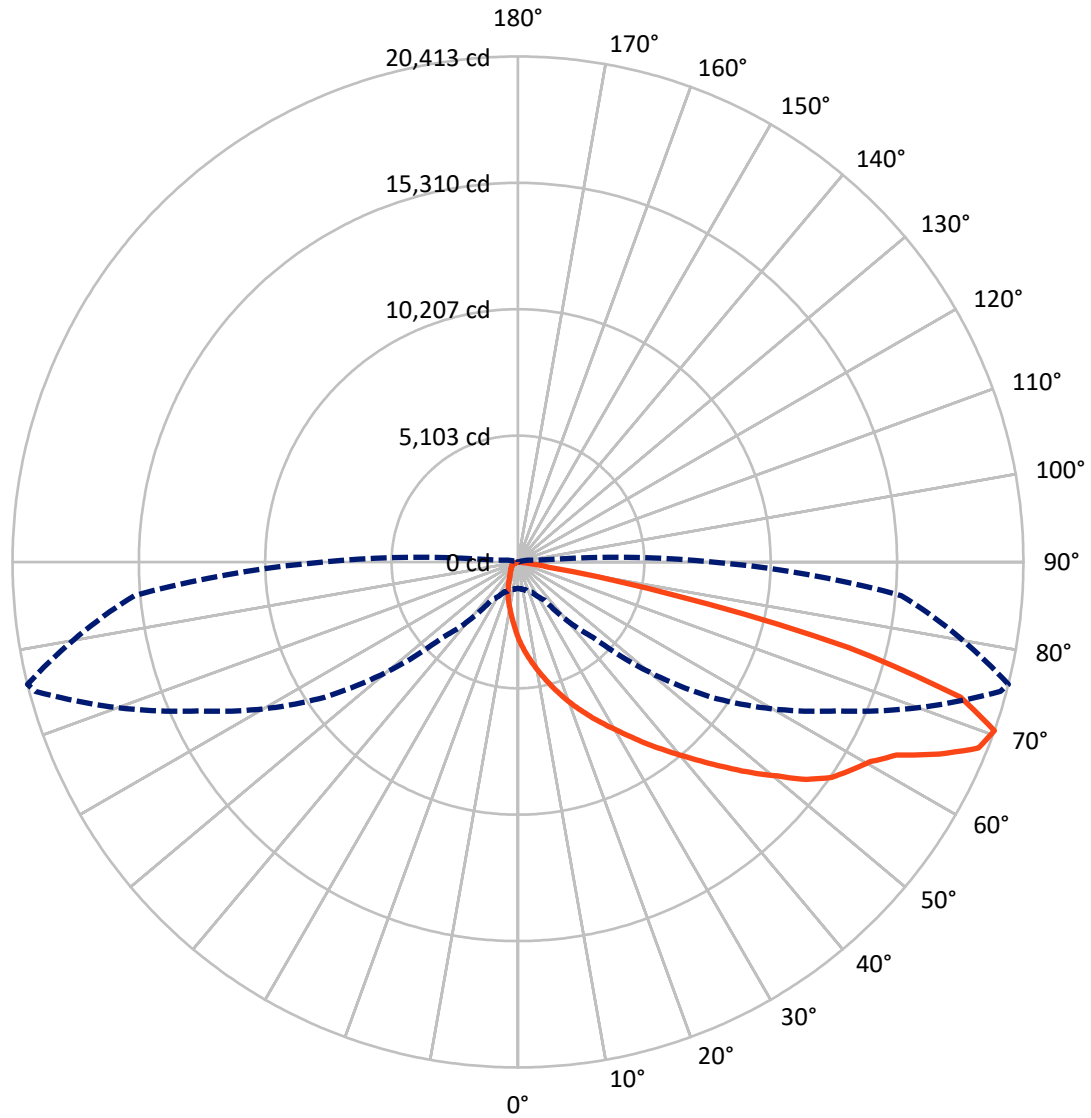
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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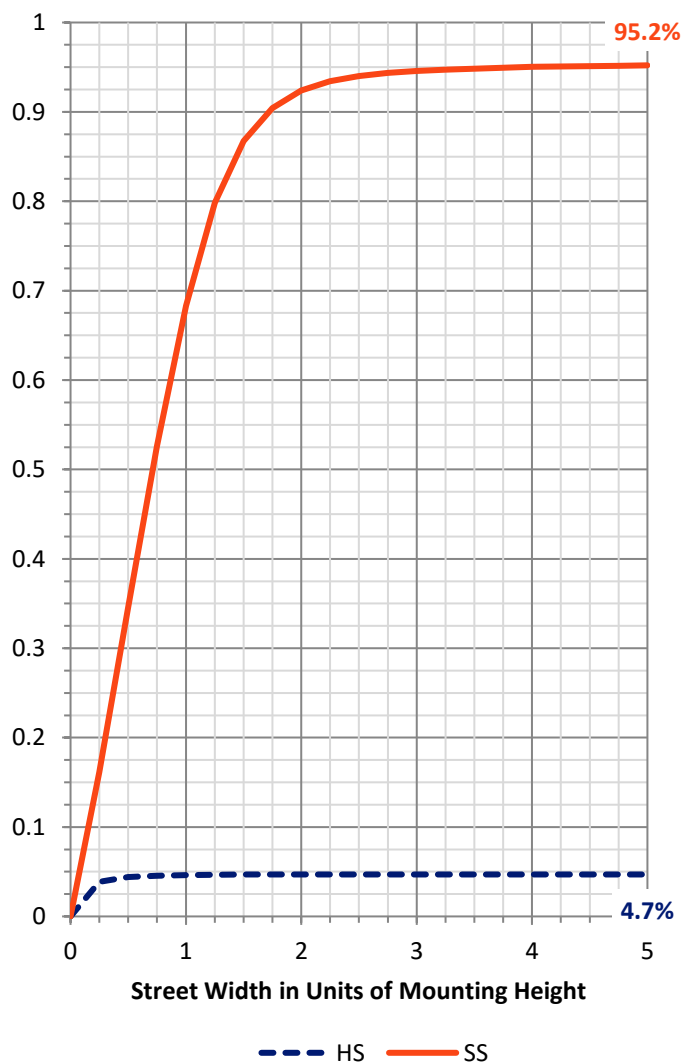
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1087.6	0.0	1087.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	21972.4	0.0	21972.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	23060.0	0.0	23060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.8	1.3
10°-20°	938.5	4.1
20°-30°	1747.9	7.6
30°-40°	3091.6	13.4
40°-50°	4727.8	20.5
50°-60°	5360.2	23.2
60°-70°	4595.0	19.9
70°-80°	2225.6	9.7
80°-90°	82.6	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°	23060.0	100.0
0°-180°	23060.0	100.0

**Coefficient of Utilization**



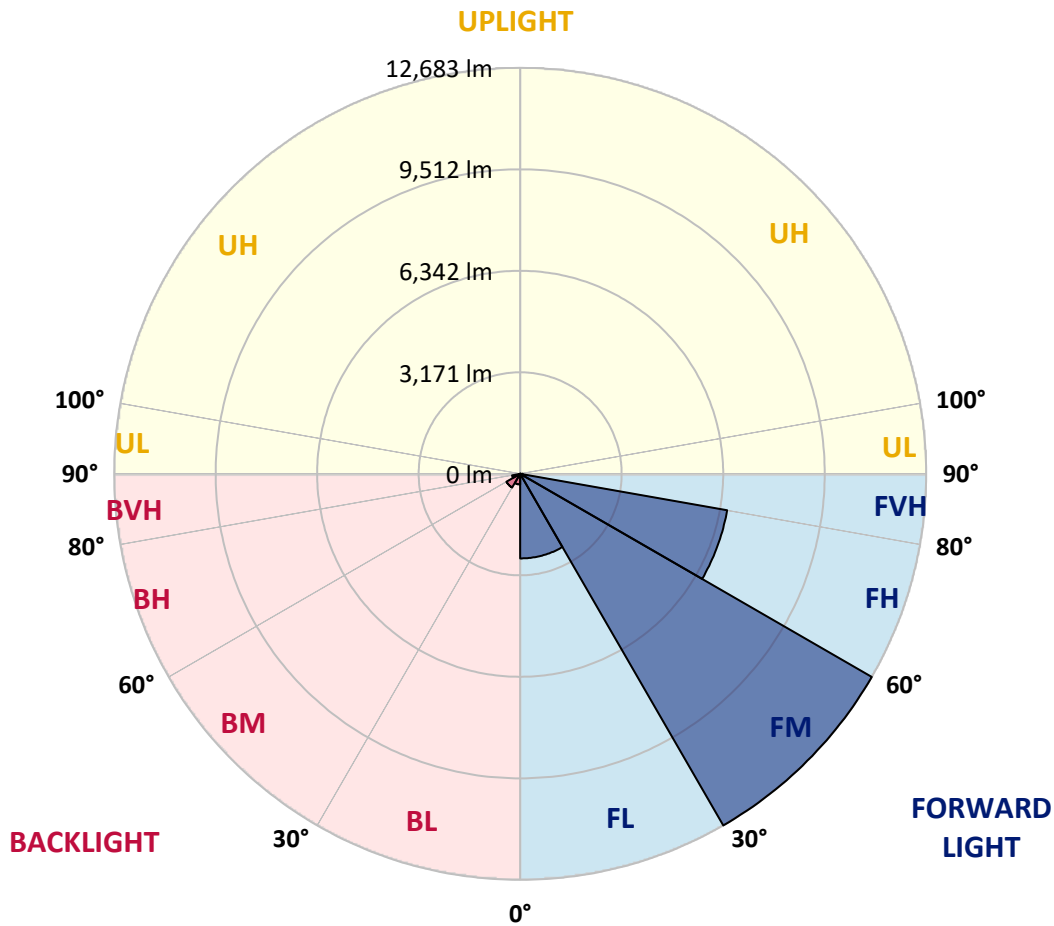
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.6	11.5			
FM (30°-60°)	12683.2	55.0			
FH (60°-80°)	6564.5	28.5			G3/7500
FVH (80°-90°)	81.1	0.4			G1/100
BL (0°-30°)	333.6	1.4	B1/500		
BM (30°-60°)	496.5	2.2	B1/1000		
BH (60°-80°)	256.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7
2.5°	4219.3	4196.3	4173.2	4084.9	4004.3	3931.4	3793.1	3612.7	3451.5	3416.9	3228.8
5°	4956.4	4929.6	4895.0	4806.7	4703.0	4580.2	4376.7	4100.3	3816.2	3754.8	3405.4
7.5°	5455.5	5432.5	5382.6	5340.3	5236.7	5117.7	4891.2	4568.7	4177.1	4100.3	3608.9
10°	5797.2	5781.9	5774.2	5739.6	5662.8	5566.9	5340.3	5002.5	4541.8	4453.5	3823.9
12.5°	5920.1	5920.1	5958.5	6016.1	6027.6	5996.9	5789.5	5451.7	4925.7	4833.6	4077.2
15°	5755.0	5774.2	5858.6	6042.9	6234.9	6361.6	6231.0	5916.2	5348.0	5248.2	4376.7
17.5°	5708.9	5728.1	5785.7	5946.9	6204.2	6542.0	6607.3	6365.4	5747.3	5662.8	4683.8
20°	5839.4	5858.6	5908.6	6046.8	6242.6	6584.3	6856.8	6799.3	6169.6	6081.3	4994.8
22.5°	6150.4	6161.9	6161.9	6269.4	6442.2	6695.6	7014.2	7210.0	6603.5	6507.5	5302.0
25°	6818.4	6795.4	6703.3	6649.5	6760.9	6968.2	7213.9	7570.9	7087.2	6956.7	5632.1
27.5°	7693.8	7770.6	7547.9	7290.7	7206.2	7325.2	7494.1	7889.6	7555.6	7417.4	5931.6
30°	8880.1	8849.4	8557.6	8189.0	7824.3	7782.1	7839.7	8162.2	8024.0	7893.4	6265.6
32.5°	9855.3	9912.9	9605.7	9156.5	8611.4	8354.1	8292.7	8488.5	8523.1	8438.6	6661.0
35°	10857.3	10918.7	10619.3	10120.2	9471.3	9041.4	8864.7	8891.6	9141.2	9033.7	7075.7
37.5°	11755.7	11809.4	11513.8	11003.2	10354.4	9828.4	9575.0	9367.7	9740.1	9644.1	7513.3
40°	12439.1	12446.7	12247.1	11790.2	11176.0	10630.8	10342.8	9935.9	10373.6	10308.3	7970.2
42.5°	12922.8	12938.2	12792.3	12400.7	11832.5	11325.7	11091.5	10607.8	11103.0	11045.4	8500.0
45°	13149.3	13176.2	13160.8	12799.9	12327.7	11890.0	11813.3	11321.8	11901.6	11847.8	9110.5
47.5°	12934.3	12934.3	13130.1	13080.2	12646.4	12354.6	12442.9	12066.7	12769.2	12719.3	9732.4
50°	12039.8	12051.3	12450.6	13022.6	12769.2	12704.0	12980.4	12796.1	13556.3	13587.0	10477.2
52.5°	9690.2	9671.0	11018.5	12116.6	12684.8	12861.4	13475.6	13540.9	14500.7	14592.9	11218.2
55°	7240.8	7229.2	8519.2	10511.8	12093.5	12780.7	13752.1	14205.1	15307.0	15364.5	11771.0
57.5°	5731.9	5701.2	6411.5	8473.1	10757.5	12419.9	13763.6	14331.8	15756.1	15856.0	12308.5
60°	4407.4	4380.5	4910.4	6304.0	8864.7	11460.1	13433.4	14339.5	16190.0	16366.6	13030.3
62.5°	3152.0	3182.7	3589.7	4522.6	6818.4	10104.8	13003.4	14447.0	16961.7	17161.3	14055.4
65°	2126.9	2111.6	2449.4	3079.1	4848.9	8281.2	12343.1	14673.5	18351.4	18700.8	15283.9
67.5°	1478.1	1489.6	1643.2	2004.1	3079.1	6357.7	11245.1	14800.2	19787.3	20059.9	16143.9
70°	1067.3	1082.7	1167.1	1347.6	1881.2	4311.4	9505.9	14220.5	20175.1	20413.1	15545.0
72.5°	702.6	733.3	860.0	956.0	1201.7	2699.0	7002.7	12250.9	18505.0	18681.6	13041.8
75°	380.1	387.8	552.8	714.1	856.1	1681.6	4177.1	8262.0	13844.2	13786.6	8599.8
77.5°	295.6	307.1	341.7	510.6	575.9	925.3	1650.9	3731.7	6557.4	6380.8	2933.2
80°	180.4	188.1	238.0	303.3	403.1	537.5	483.7	1013.6	1332.2	1247.7	430.0
82.5°	107.5	115.2	142.1	253.4	318.7	253.4	168.9	245.7	249.5	245.7	107.5
85°	19.2	19.2	99.8	176.6	168.9	72.9	99.8	80.6	72.9	76.8	23.0
87.5°	0.0	0.0	38.4	53.7	76.8	26.9	38.4	19.2	19.2	19.2	11.5
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°	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7
2.5°	3113.6	2983.1	2714.3	2480.1	2245.9	2073.2	1942.6	1808.3	1762.2	1704.6	1673.9
5°	3167.4	2910.1	2376.5	1950.3	1589.4	1313.0	1136.4	1028.9	959.8	909.9	898.4
7.5°	3248.0	2852.5	2103.9	1528.0	1132.6	856.1	710.3	637.3	598.9	575.9	568.2
10°	3344.0	2802.6	1835.1	1190.2	798.6	602.8	522.1	491.4	476.1	468.4	464.5
12.5°	3478.3	2783.4	1608.6	917.6	602.8	495.3	453.0	433.8	422.3	410.8	407.0
15°	3654.9	2791.1	1401.3	710.3	499.1	441.5	407.0	387.8	372.4	360.9	360.9
17.5°	3839.2	2802.6	1197.8	575.9	453.0	403.1	364.7	337.9	326.3	314.8	311.0
20°	4012.0	2798.8	1002.0	491.4	410.8	360.9	322.5	295.6	276.4	264.9	264.9
22.5°	4177.1	2775.8	817.8	441.5	376.2	318.7	276.4	249.5	234.2	222.7	222.7
25°	4353.7	2729.7	668.0	403.1	334.0	280.3	238.0	211.2	199.6	188.1	188.1
27.5°	4491.9	2652.9	545.2	368.6	295.6	241.9	203.5	180.4	168.9	161.2	161.2
30°	4641.6	2541.6	453.0	330.2	257.2	207.3	172.8	153.6	142.1	138.2	138.2
32.5°	4806.7	2418.7	387.8	291.8	218.8	176.6	145.9	134.4	122.9	119.0	119.0
35°	4998.7	2311.2	349.4	253.4	192.0	149.7	126.7	115.2	107.5	107.5	107.5
37.5°	5217.5	2199.9	314.8	222.7	165.1	126.7	107.5	103.7	99.8	96.0	96.0
40°	5455.5	2080.9	284.1	195.8	142.1	107.5	92.1	92.1	88.3	88.3	88.3
42.5°	5724.3	1977.2	257.2	172.8	122.9	92.1	80.6	80.6	76.8	76.8	76.8
45°	6016.1	1881.2	234.2	153.6	107.5	80.6	72.9	69.1	65.3	65.3	65.3
47.5°	6361.6	1827.5	215.0	134.4	92.1	69.1	61.4	57.6	53.7	49.9	49.9
50°	6803.1	1850.5	195.8	111.3	80.6	57.6	49.9	46.1	42.2	38.4	38.4
52.5°	7152.5	1839.0	168.9	96.0	65.3	46.1	38.4	34.6	30.7	26.9	26.9
55°	7405.8	1792.9	145.9	80.6	49.9	38.4	30.7	23.0	19.2	19.2	19.2
57.5°	7655.4	1746.8	122.9	65.3	38.4	26.9	19.2	15.4	15.4	15.4	15.4
60°	8043.2	1681.6	107.5	53.7	30.7	19.2	11.5	11.5	7.7	7.7	7.7
62.5°	8515.4	1601.0	88.3	46.1	23.0	15.4	7.7	7.7	0.0	0.0	0.0
65°	9033.7	1458.9	72.9	34.6	19.2	11.5	7.7	0.0	0.0	0.0	0.0
67.5°	8914.7	1171.0	61.4	23.0	15.4	7.7	3.8	0.0	0.0	0.0	0.0
70°	7885.7	790.9	49.9	19.2	11.5	7.7	3.8	0.0	0.0	0.0	0.0
72.5°	6177.3	468.4	34.6	15.4	7.7	3.8	0.0	0.0	0.0	0.0	0.0
75°	3954.4	234.2	23.0	11.5	7.7	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	1324.5	115.2	15.4	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	188.1	38.4	7.7	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.2	15.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.8	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)