

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: P399345

Luminaire Tested: **ARCH-L-PA3-130-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399345
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-PA3-130-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA 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: 15353 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

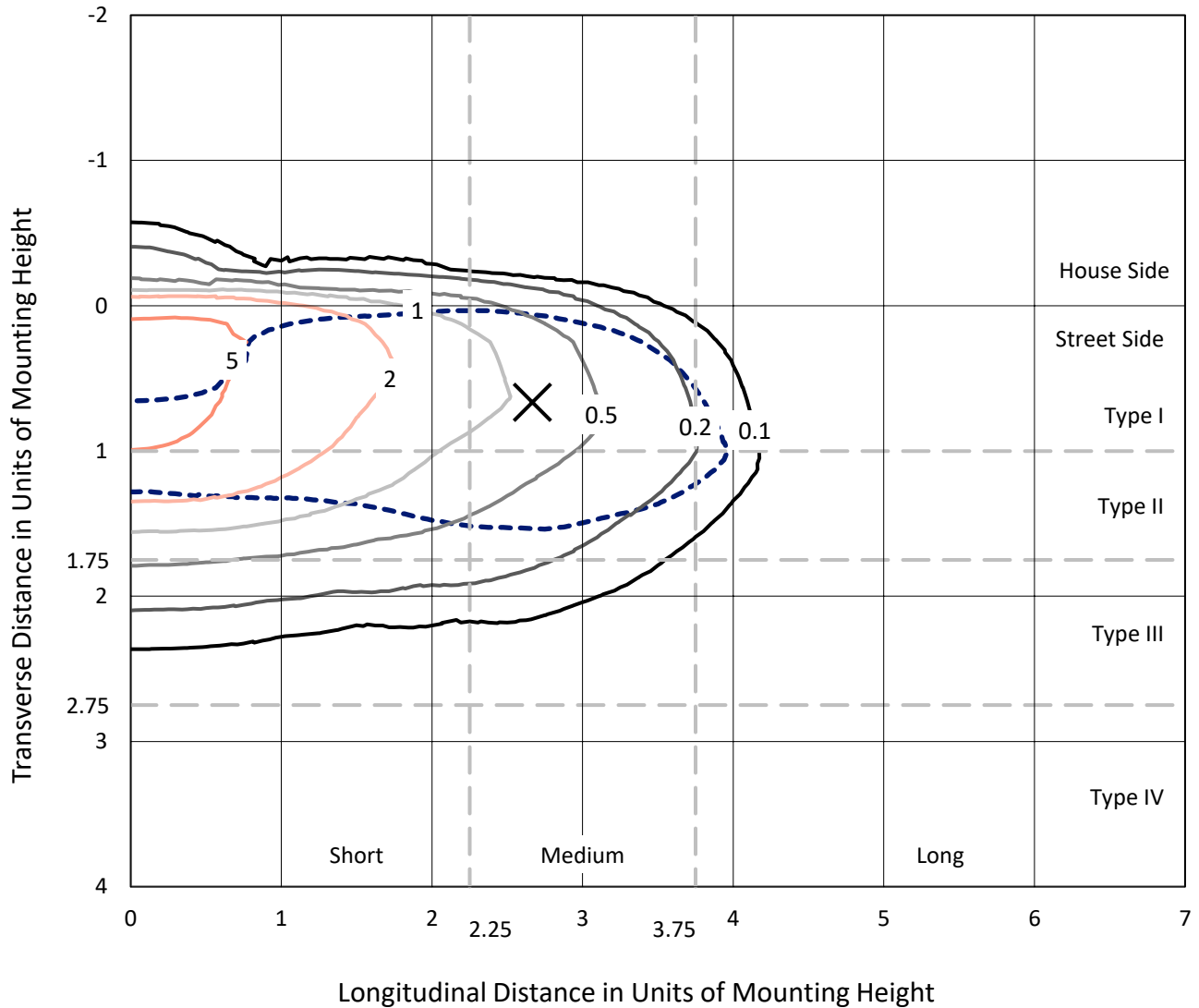
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

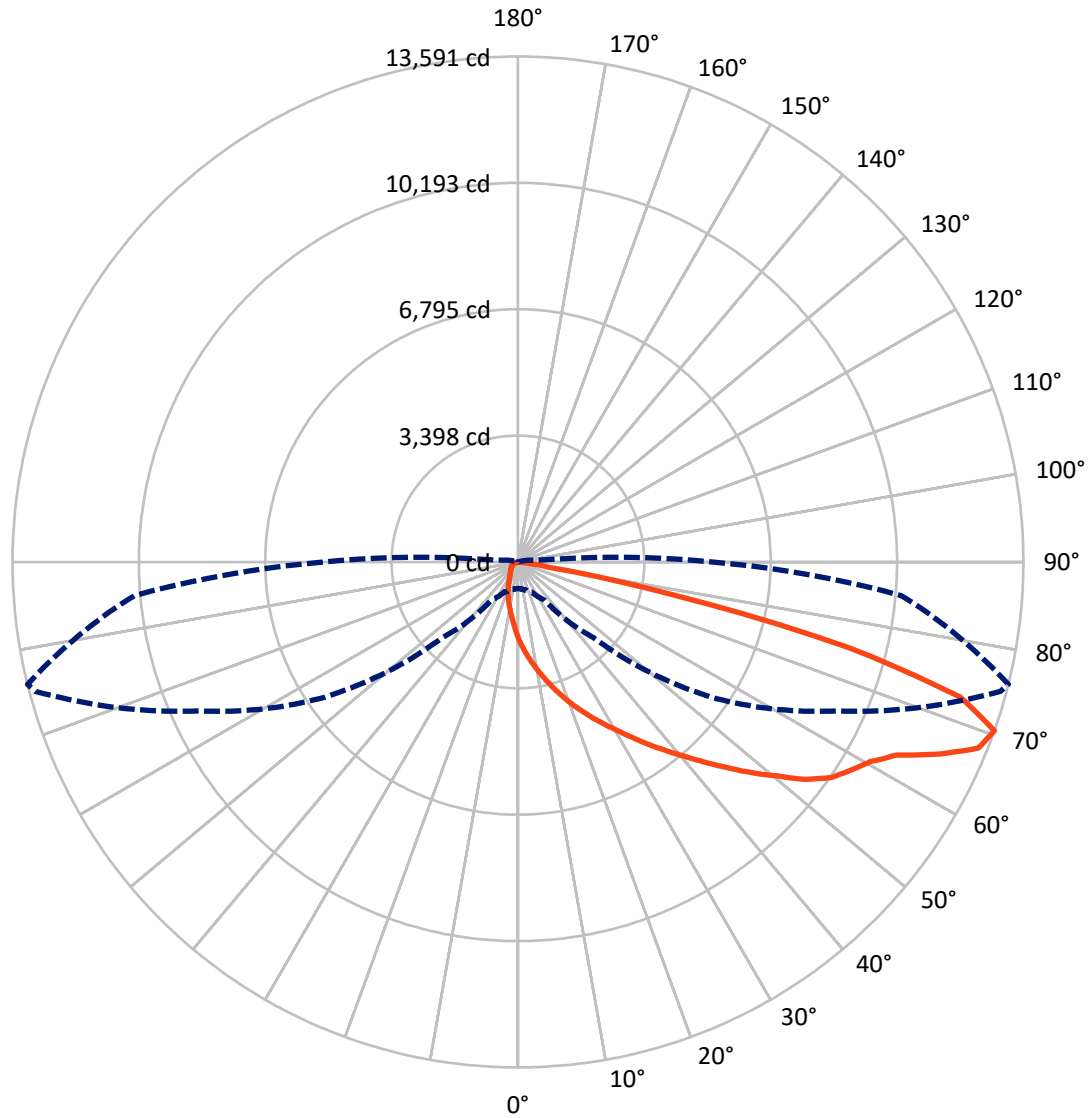
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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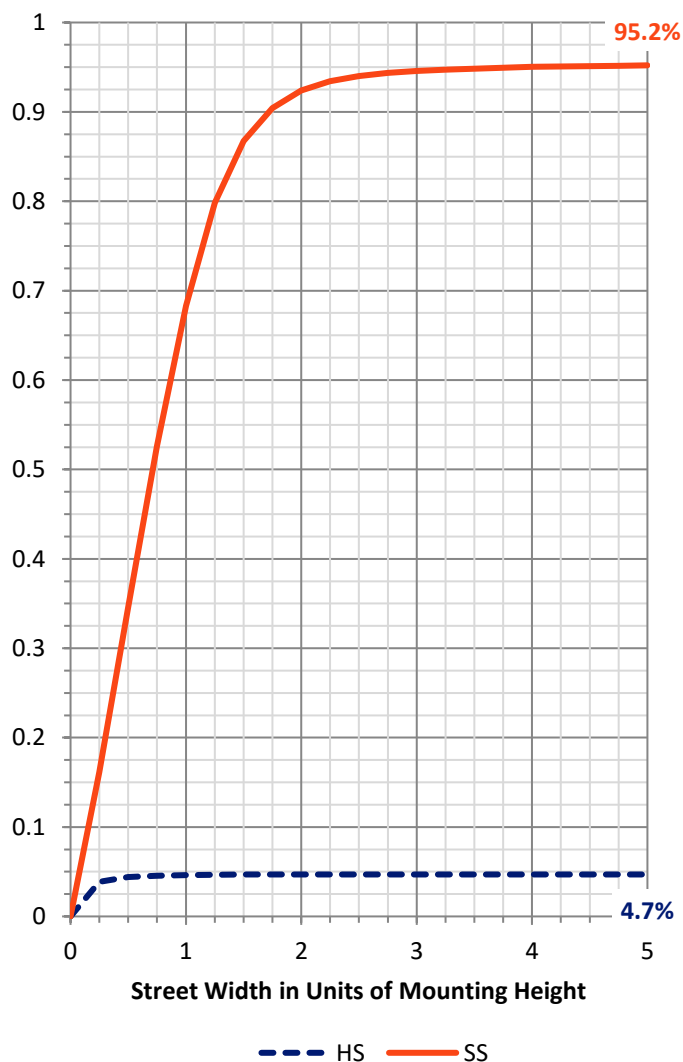
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.1	0.0	724.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14628.9	0.0	14628.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	15353.0	0.0	15353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	1.3
10°-20°	624.9	4.1
20°-30°	1163.7	7.6
30°-40°	2058.4	13.4
40°-50°	3147.7	20.5
50°-60°	3568.8	23.2
60°-70°	3059.3	19.9
70°-80°	1481.7	9.7
80°-90°	55.0	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°	15353.0	100.0
0°-180°	15353.0	100.0

Coefficient of Utilization

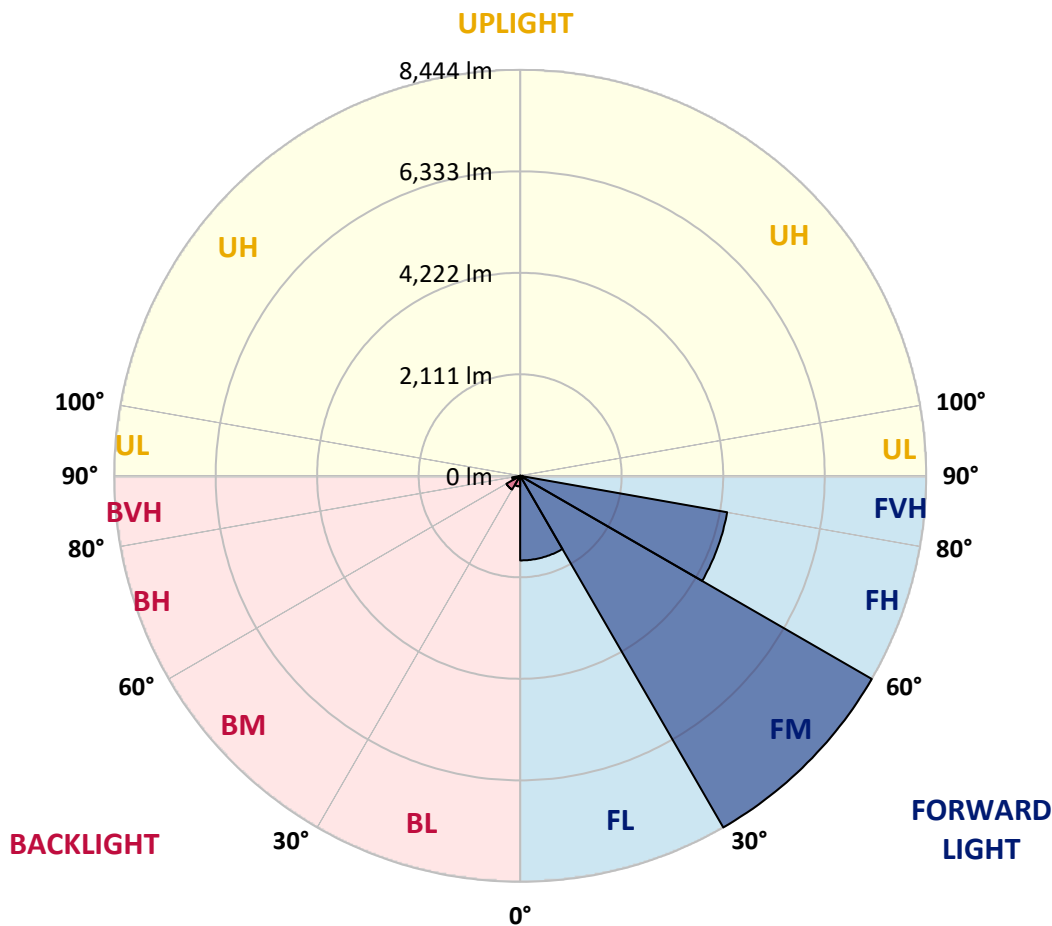


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.0	11.5			
FM (30°-60°)	8444.3	55.0			
FH (60°-80°)	4370.5	28.5			G2/5000
FVH (80°-90°)	54.0	0.4			G1/100
BL (0°-30°)	222.1	1.4	B1/500		
BM (30°-60°)	330.5	2.2	B1/1000		
BH (60°-80°)	170.5	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1
2.5°	2809.1	2793.8	2778.5	2719.7	2666.0	2617.4	2525.4	2405.3	2297.9	2274.9	2149.7
5°	3299.9	3282.0	3259.0	3200.2	3131.2	3049.4	2913.9	2729.9	2540.8	2499.9	2267.3
7.5°	3632.2	3616.9	3583.6	3555.5	3486.5	3407.3	3256.5	3041.7	2781.0	2729.9	2402.7
10°	3859.7	3849.5	3844.4	3821.4	3770.2	3706.3	3555.5	3330.6	3023.9	2965.1	2545.9
12.5°	3941.5	3941.5	3967.1	4005.4	4013.1	3992.6	3854.6	3629.7	3279.5	3218.1	2714.6
15°	3831.6	3844.4	3900.6	4023.3	4151.1	4235.4	4148.5	3938.9	3560.6	3494.2	2913.9
17.5°	3800.9	3813.7	3852.0	3959.4	4130.6	4355.6	4399.0	4238.0	3826.5	3770.2	3118.4
20°	3887.8	3900.6	3933.8	4025.8	4156.2	4383.7	4565.2	4526.8	4107.6	4048.8	3325.5
22.5°	4094.9	4102.5	4102.5	4174.1	4289.1	4457.8	4670.0	4800.3	4396.5	4332.6	3530.0
25°	4539.6	4524.3	4462.9	4427.2	4501.3	4639.3	4802.9	5040.6	4718.5	4631.6	3749.8
27.5°	5122.4	5173.5	5025.3	4854.0	4797.8	4877.0	4989.5	5252.8	5030.4	4938.4	3949.2
30°	5912.2	5891.8	5697.5	5452.1	5209.3	5181.2	5219.5	5434.3	5342.2	5255.3	4171.5
32.5°	6561.5	6599.8	6395.3	6096.3	5733.3	5562.1	5521.2	5651.5	5674.5	5618.3	4434.8
35°	7228.6	7269.5	7070.1	6737.9	6305.9	6019.6	5902.0	5919.9	6086.1	6014.5	4710.9
37.5°	7826.8	7862.5	7665.7	7325.8	6893.8	6543.6	6374.9	6236.9	6484.8	6420.9	5002.3
40°	8281.7	8286.8	8153.9	7849.8	7440.8	7077.8	6886.1	6615.2	6906.6	6863.1	5306.4
42.5°	8603.8	8614.0	8516.9	8256.2	7877.9	7540.5	7384.5	7062.5	7392.2	7353.9	5659.2
45°	8754.6	8772.5	8762.3	8522.0	8207.6	7916.2	7865.1	7537.9	7923.9	7888.1	6065.6
47.5°	8611.5	8611.5	8741.8	8708.6	8419.8	8225.5	8284.3	8033.8	8501.6	8468.3	6479.7
50°	8015.9	8023.6	8289.4	8670.3	8501.6	8458.1	8642.1	8519.5	9025.6	9046.0	6975.6
52.5°	6451.6	6438.8	7336.0	8067.0	8445.3	8562.9	8971.9	9015.3	9654.4	9715.7	7468.9
55°	4820.8	4813.1	5672.0	6998.6	8051.7	8509.2	9155.9	9457.5	10191.1	10229.5	7837.0
57.5°	3816.2	3795.8	4268.7	5641.3	7162.2	8269.0	9163.6	9541.9	10490.2	10556.7	8194.8
60°	2934.4	2916.5	3269.2	4197.1	5902.0	7629.9	8943.8	9547.0	10779.0	10896.6	8675.4
62.5°	2098.6	2119.0	2389.9	3011.1	4539.6	6727.6	8657.5	9618.6	11292.8	11425.7	9357.9
65°	1416.1	1405.9	1630.8	2050.0	3228.3	5513.5	8217.8	9769.4	12218.1	12450.7	10175.8
67.5°	984.1	991.8	1094.0	1334.3	2050.0	4232.9	7486.8	9853.7	13174.1	13355.6	10748.4
70°	710.6	720.8	777.1	897.2	1252.5	2870.5	6328.9	9467.8	13432.3	13590.7	10349.6
72.5°	467.8	488.2	572.6	636.5	800.1	1796.9	4662.3	8156.5	12320.4	12437.9	8683.0
75°	253.1	258.2	368.1	475.4	570.0	1119.6	2781.0	5500.7	9217.3	9178.9	5725.6
77.5°	196.8	204.5	227.5	340.0	383.4	616.0	1099.1	2484.5	4365.8	4248.2	1952.9
80°	120.1	125.2	158.5	201.9	268.4	357.9	322.1	674.8	887.0	830.7	286.3
82.5°	71.6	76.7	94.6	168.7	212.2	168.7	112.5	163.6	166.1	163.6	71.6
85°	12.8	12.8	66.5	117.6	112.5	48.6	66.5	53.7	48.6	51.1	15.3
87.5°	0.0	0.0	25.6	35.8	51.1	17.9	25.6	12.8	12.8	12.8	7.7
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°	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1
2.5°	2073.0	1986.1	1807.2	1651.2	1495.3	1380.3	1293.4	1203.9	1173.2	1134.9	1114.5
5°	2108.8	1937.5	1582.2	1298.5	1058.2	874.2	756.6	685.0	639.0	605.8	598.1
7.5°	2162.5	1899.2	1400.7	1017.3	754.0	570.0	472.9	424.3	398.8	383.4	378.3
10°	2226.4	1865.9	1221.8	792.4	531.7	401.3	347.6	327.2	317.0	311.8	309.3
12.5°	2315.8	1853.2	1071.0	610.9	401.3	329.7	301.6	288.8	281.2	273.5	270.9
15°	2433.4	1858.3	933.0	472.9	332.3	294.0	270.9	258.2	247.9	240.3	240.3
17.5°	2556.1	1865.9	797.5	383.4	301.6	268.4	242.8	224.9	217.3	209.6	207.0
20°	2671.1	1863.4	667.1	327.2	273.5	240.3	214.7	196.8	184.0	176.4	176.4
22.5°	2781.0	1848.1	544.4	294.0	250.5	212.2	184.0	166.1	155.9	148.3	148.3
25°	2898.6	1817.4	444.8	268.4	222.4	186.6	158.5	140.6	132.9	125.2	125.2
27.5°	2990.6	1766.3	363.0	245.4	196.8	161.0	135.5	120.1	112.5	107.4	107.4
30°	3090.3	1692.1	301.6	219.8	171.3	138.0	115.0	102.2	94.6	92.0	92.0
32.5°	3200.2	1610.3	258.2	194.3	145.7	117.6	97.1	89.5	81.8	79.2	79.2
35°	3328.0	1538.8	232.6	168.7	127.8	99.7	84.4	76.7	71.6	71.6	71.6
37.5°	3473.7	1464.6	209.6	148.3	109.9	84.4	71.6	69.0	66.5	63.9	63.9
40°	3632.2	1385.4	189.2	130.4	94.6	71.6	61.3	61.3	58.8	58.8	58.8
42.5°	3811.1	1316.4	171.3	115.0	81.8	61.3	53.7	53.7	51.1	51.1	51.1
45°	4005.4	1252.5	155.9	102.2	71.6	53.7	48.6	46.0	43.5	43.5	43.5
47.5°	4235.4	1216.7	143.1	89.5	61.3	46.0	40.9	38.3	35.8	33.2	33.2
50°	4529.4	1232.0	130.4	74.1	53.7	38.3	33.2	30.7	28.1	25.6	25.6
52.5°	4762.0	1224.4	112.5	63.9	43.5	30.7	25.6	23.0	20.4	17.9	17.9
55°	4930.7	1193.7	97.1	53.7	33.2	25.6	20.4	15.3	12.8	12.8	12.8
57.5°	5096.8	1163.0	81.8	43.5	25.6	17.9	12.8	10.2	10.2	10.2	10.2
60°	5355.0	1119.6	71.6	35.8	20.4	12.8	7.7	7.7	5.1	5.1	5.1
62.5°	5669.4	1065.9	58.8	30.7	15.3	10.2	5.1	5.1	0.0	0.0	0.0
65°	6014.5	971.3	48.6	23.0	12.8	7.7	5.1	0.0	0.0	0.0	0.0
67.5°	5935.2	779.6	40.9	15.3	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5250.2	526.6	33.2	12.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	4112.8	311.8	23.0	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
75°	2632.8	155.9	15.3	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	881.9	76.7	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	125.2	25.6	5.1	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.1	10.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	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)