

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: P572653

Luminaire Tested: **ARCH-S-PA2-100-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9744 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

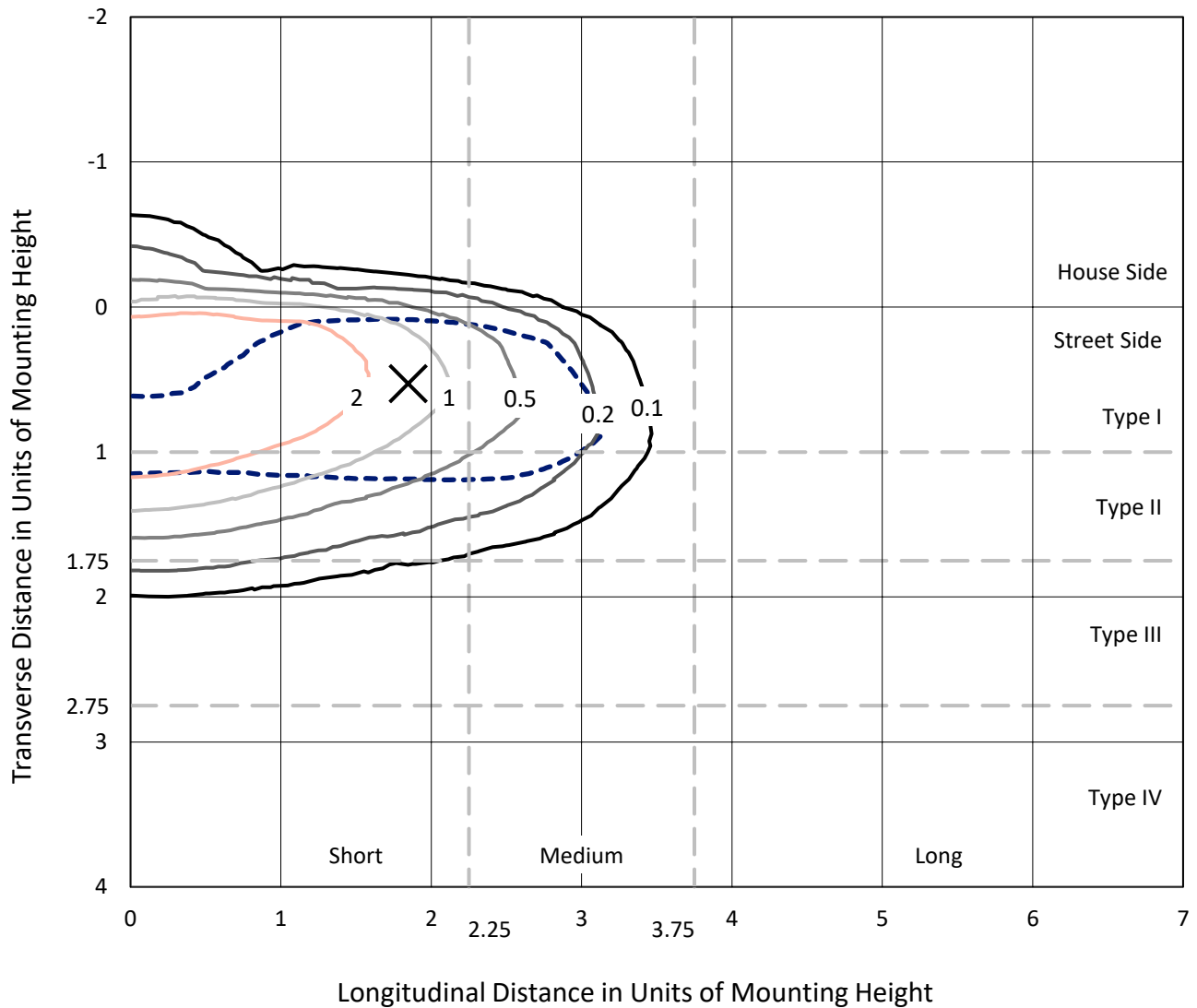
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

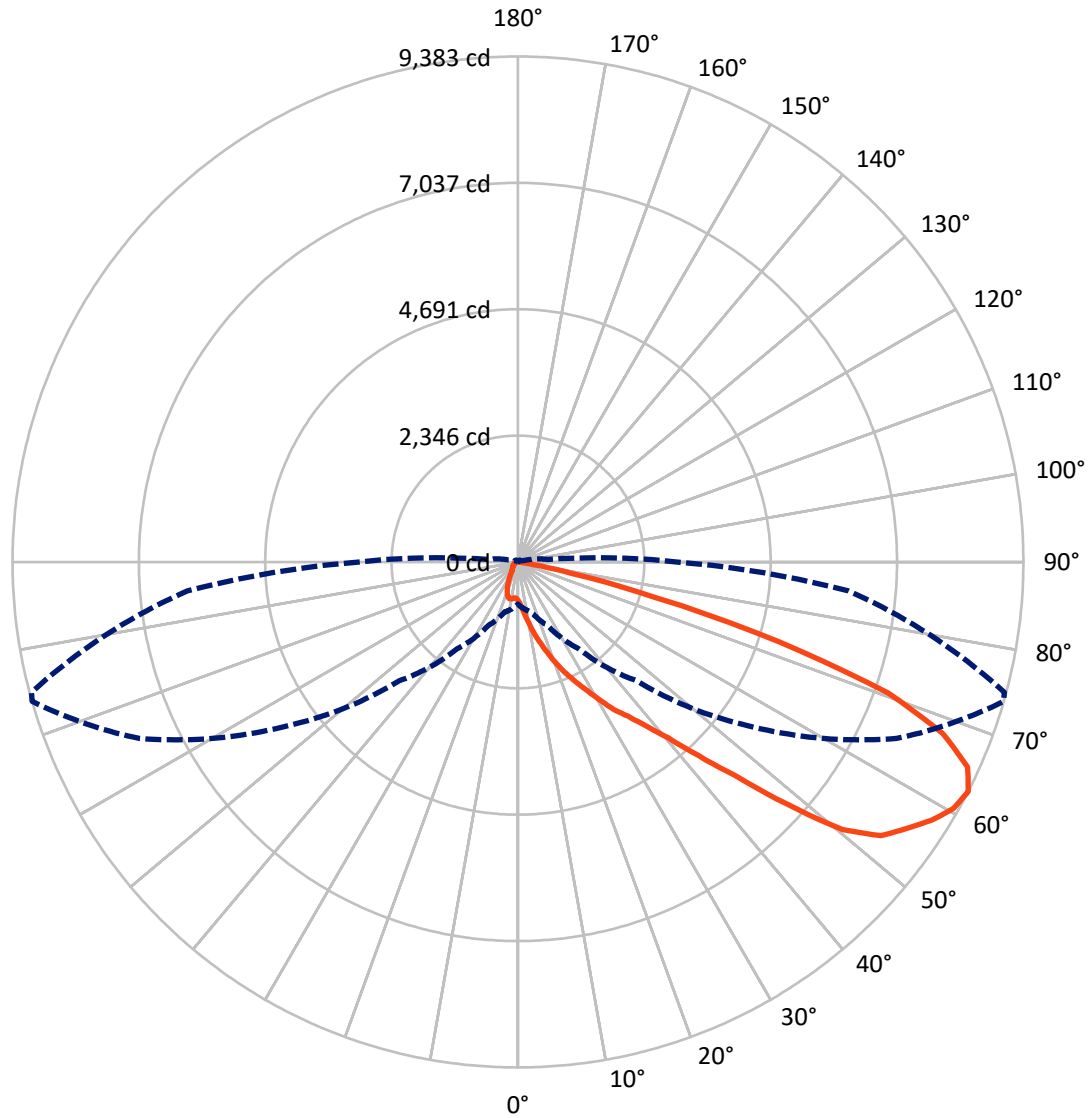
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: ARCH-S-PA2-100-730-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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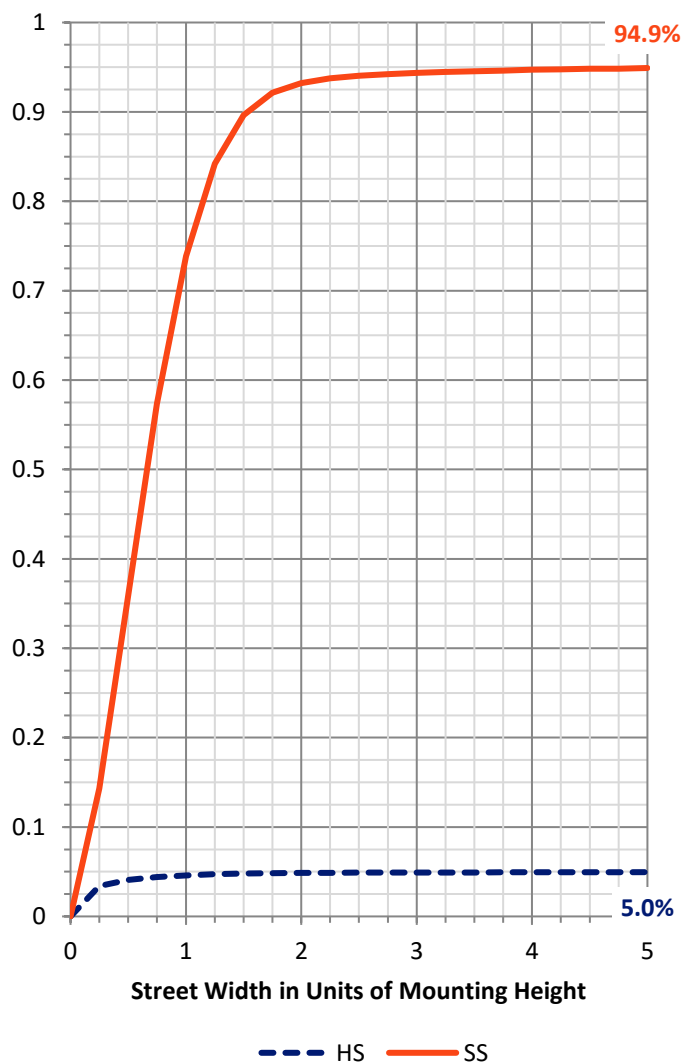
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.0	0.0	486.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9258.0	0.0	9258.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	9744.0	0.0	9744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	0.9
10°-20°	374.7	3.8
20°-30°	804.1	8.3
30°-40°	1410.3	14.5
40°-50°	2186.3	22.4
50°-60°	2520.5	25.9
60°-70°	1770.7	18.2
70°-80°	551.7	5.7
80°-90°	36.5	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°	9744.0	100.0
0°-180°	9744.0	100.0

Coefficient of Utilization

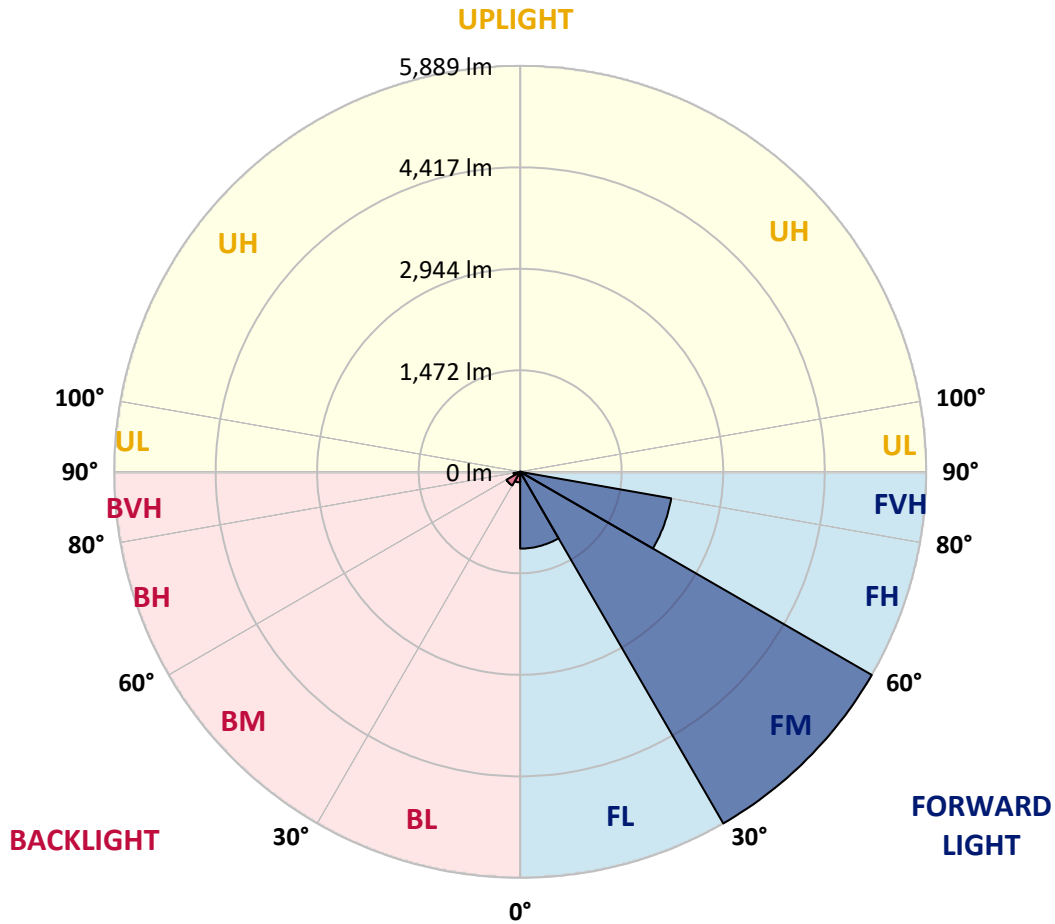


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.8	11.4			
FM (30°-60°)	5888.8	60.4			
FH (60°-80°)	2224.0	22.8			G2/5000
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	154.2	1.6	B1/500		
BM (30°-60°)	228.4	2.3	B1/1000		
BH (60°-80°)	98.4	1.0	B0/110		G0/110
BVH (80°-90°)	5.0	0.1			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	991.1	973.9	953.3	936.2	901.9	877.9	847.0	812.7	775.0	771.6	740.7
5°	1388.9	1337.4	1337.4	1292.8	1241.4	1148.8	1063.1	956.8	877.9	871.0	788.7
7.5°	1796.9	1755.8	1731.8	1663.2	1580.9	1478.0	1340.8	1162.5	1018.5	994.5	860.7
10°	2177.6	2146.7	2102.1	2047.3	1975.3	1807.2	1635.8	1402.6	1172.8	1155.7	946.5
12.5°	2472.5	2434.8	2414.2	2390.2	2297.6	2163.9	1941.0	1646.1	1371.7	1334.0	1032.2
15°	2695.4	2678.3	2657.7	2657.7	2609.7	2479.4	2249.6	1906.7	1563.8	1519.2	1142.0
17.5°	2873.7	2853.2	2849.7	2870.3	2856.6	2764.0	2548.0	2157.0	1762.7	1728.4	1255.1
20°	3072.6	3045.2	3045.2	3062.3	3058.9	3007.5	2818.9	2445.1	1995.8	1934.1	1385.4
22.5°	3353.8	3336.7	3323.0	3295.5	3275.0	3227.0	3062.3	2726.3	2218.7	2160.4	1519.2
25°	3731.1	3710.5	3648.8	3600.7	3511.6	3439.6	3299.0	2976.6	2445.1	2379.9	1649.5
27.5°	4098.0	4056.8	3998.5	3936.8	3837.4	3713.9	3539.0	3213.2	2681.7	2613.1	1783.2
30°	4485.5	4454.6	4382.6	4283.2	4159.7	4022.5	3813.4	3497.9	2952.6	2877.2	1927.3
32.5°	4794.1	4746.1	4681.0	4585.0	4458.1	4362.0	4135.7	3809.9	3264.7	3165.2	2078.1
35°	5041.0	5003.3	4917.6	4825.0	4729.0	4701.5	4454.6	4063.7	3515.0	3422.4	2239.3
37.5°	5198.8	5161.1	5089.1	4996.5	4958.7	5006.8	4845.6	4410.1	3851.1	3734.5	2424.5
40°	5322.2	5277.7	5219.4	5178.2	5164.5	5298.2	5281.1	4859.3	4293.5	4224.9	2678.3
42.5°	5411.4	5366.8	5329.1	5325.7	5414.8	5675.5	5867.5	5486.9	4910.7	4770.1	3004.1
45°	5298.2	5260.5	5281.1	5401.1	5617.2	6028.7	6577.4	6375.0	5654.9	5555.4	3525.3
47.5°	4982.7	4958.7	5051.3	5270.8	5672.0	6244.7	7263.2	7349.0	6718.0	6567.1	4200.9
50°	4488.9	4485.5	4633.0	4931.3	5500.6	6327.0	7609.6	8285.1	7808.5	7654.2	4749.6
52.5°	3820.2	3806.5	4022.5	4437.5	5095.9	6172.7	7674.7	8658.9	8439.5	8257.7	5095.9
55°	3062.3	3031.5	3288.7	3744.8	4499.2	5723.5	7499.8	8741.2	8741.2	8576.6	5353.1
57.5°	2153.6	2201.6	2414.2	2962.9	3761.9	5051.3	7067.8	8665.8	9046.4	8905.8	5699.5
60°	1358.0	1378.6	1611.8	2054.1	2853.2	4152.9	6296.2	8340.0	9289.9	9207.6	5977.2
62.5°	781.9	847.0	963.6	1299.7	1968.4	3120.6	5342.8	7753.6	9382.5	9348.2	6159.0
65°	476.7	483.5	538.4	733.9	1210.5	2129.6	4276.3	6937.4	9173.3	9204.2	6124.7
67.5°	356.6	356.6	373.8	463.0	689.3	1354.6	3154.9	5946.4	8504.6	8604.1	5802.3
70°	308.6	308.6	312.1	339.5	425.2	802.5	2085.0	4794.1	7290.7	7280.4	4794.1
72.5°	243.5	253.8	274.3	288.1	322.4	469.8	1220.8	3350.4	5065.0	5185.1	3086.4
75°	195.5	198.9	226.3	250.3	270.9	318.9	576.1	1862.1	2657.7	2657.7	1358.0
77.5°	150.9	157.7	174.9	198.9	226.3	226.3	240.0	720.1	1028.8	994.5	401.2
80°	96.0	99.4	126.9	157.7	188.6	161.2	130.3	240.0	281.2	270.9	109.7
82.5°	58.3	61.7	82.3	126.9	126.9	89.2	82.3	99.4	89.2	82.3	44.6
85°	17.1	20.6	58.3	82.3	72.0	34.3	41.2	44.6	41.2	37.7	24.0
87.5°	3.4	3.4	17.1	20.6	17.1	17.1	13.7	17.1	17.1	17.1	10.3
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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 CATALOG NUMBER: ARCH-S-PA2-100-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	723.6	709.9	682.4	661.9	644.7	627.6	613.8	610.4	603.6	603.6	600.1
5°	754.4	723.6	672.1	637.8	610.4	586.4	565.8	545.3	538.4	531.5	535.0
7.5°	802.5	754.4	682.4	631.0	583.0	528.1	483.5	445.8	418.4	411.5	401.2
10°	864.2	792.2	699.6	617.3	528.1	432.1	370.4	332.6	318.9	301.8	305.2
12.5°	925.9	836.7	713.3	579.5	435.5	339.5	288.1	264.1	253.8	250.3	253.8
15°	997.9	884.8	706.4	511.0	349.8	274.3	243.5	233.2	226.3	226.3	222.9
17.5°	1069.9	925.9	682.4	421.8	281.2	233.2	219.5	209.2	202.3	198.9	198.9
20°	1148.8	963.6	627.6	336.1	233.2	212.6	198.9	185.2	178.3	178.3	178.3
22.5°	1231.1	991.1	555.5	267.5	209.2	188.6	174.9	164.6	157.7	157.7	157.7
25°	1303.1	1004.8	469.8	222.9	192.0	171.5	157.7	147.5	144.0	140.6	140.6
27.5°	1371.7	1001.4	380.7	195.5	171.5	154.3	140.6	133.7	126.9	126.9	126.9
30°	1440.3	980.8	301.8	178.3	157.7	137.2	126.9	120.0	116.6	113.2	113.2
32.5°	1498.6	946.5	236.6	164.6	144.0	123.5	113.2	106.3	106.3	102.9	102.9
35°	1556.9	895.0	198.9	154.3	130.3	113.2	102.9	99.4	96.0	96.0	96.0
37.5°	1618.6	829.9	174.9	140.6	116.6	102.9	96.0	92.6	89.2	85.7	85.7
40°	1694.1	764.7	164.6	130.3	106.3	92.6	85.7	82.3	78.9	78.9	78.9
42.5°	1814.1	709.9	154.3	116.6	96.0	85.7	78.9	72.0	72.0	68.6	68.6
45°	2040.4	689.3	144.0	106.3	89.2	75.4	72.0	65.2	61.7	61.7	61.7
47.5°	2335.3	692.7	133.7	96.0	82.3	68.6	65.2	61.7	54.9	54.9	54.9
50°	2578.8	675.6	123.5	89.2	72.0	65.2	58.3	54.9	51.4	51.4	51.4
52.5°	2674.8	644.7	113.2	82.3	68.6	58.3	54.9	51.4	48.0	48.0	48.0
55°	2770.9	631.0	102.9	72.0	61.7	58.3	51.4	48.0	44.6	41.2	41.2
57.5°	2945.8	637.8	92.6	68.6	58.3	54.9	48.0	41.2	34.3	30.9	30.9
60°	3038.3	613.8	85.7	61.7	54.9	51.4	41.2	30.9	24.0	20.6	20.6
62.5°	2959.5	545.3	78.9	58.3	51.4	44.6	30.9	24.0	17.1	10.3	10.3
65°	2740.0	449.2	72.0	54.9	44.6	34.3	27.4	17.1	10.3	6.9	6.9
67.5°	2462.2	353.2	65.2	51.4	41.2	30.9	24.0	13.7	6.9	3.4	3.4
70°	1989.0	253.8	61.7	48.0	37.7	27.4	20.6	13.7	6.9	3.4	3.4
72.5°	1282.6	164.6	54.9	44.6	34.3	27.4	17.1	10.3	6.9	3.4	3.4
75°	593.3	109.7	51.4	41.2	34.3	24.0	17.1	13.7	6.9	3.4	3.4
77.5°	174.9	78.9	48.0	37.7	30.9	24.0	17.1	13.7	6.9	3.4	3.4
80°	72.0	54.9	37.7	34.3	30.9	24.0	17.1	13.7	6.9	3.4	3.4
82.5°	34.3	24.0	17.1	13.7	17.1	17.1	13.7	13.7	6.9	3.4	3.4
85°	17.1	10.3	6.9	6.9	6.9	3.4	3.4	6.9	6.9	3.4	3.4
87.5°	10.3	6.9	6.9	6.9	3.4	3.4	3.4	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)