

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: P399844

Luminaire Tested: **ARCH-L-PA3-200-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17721 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

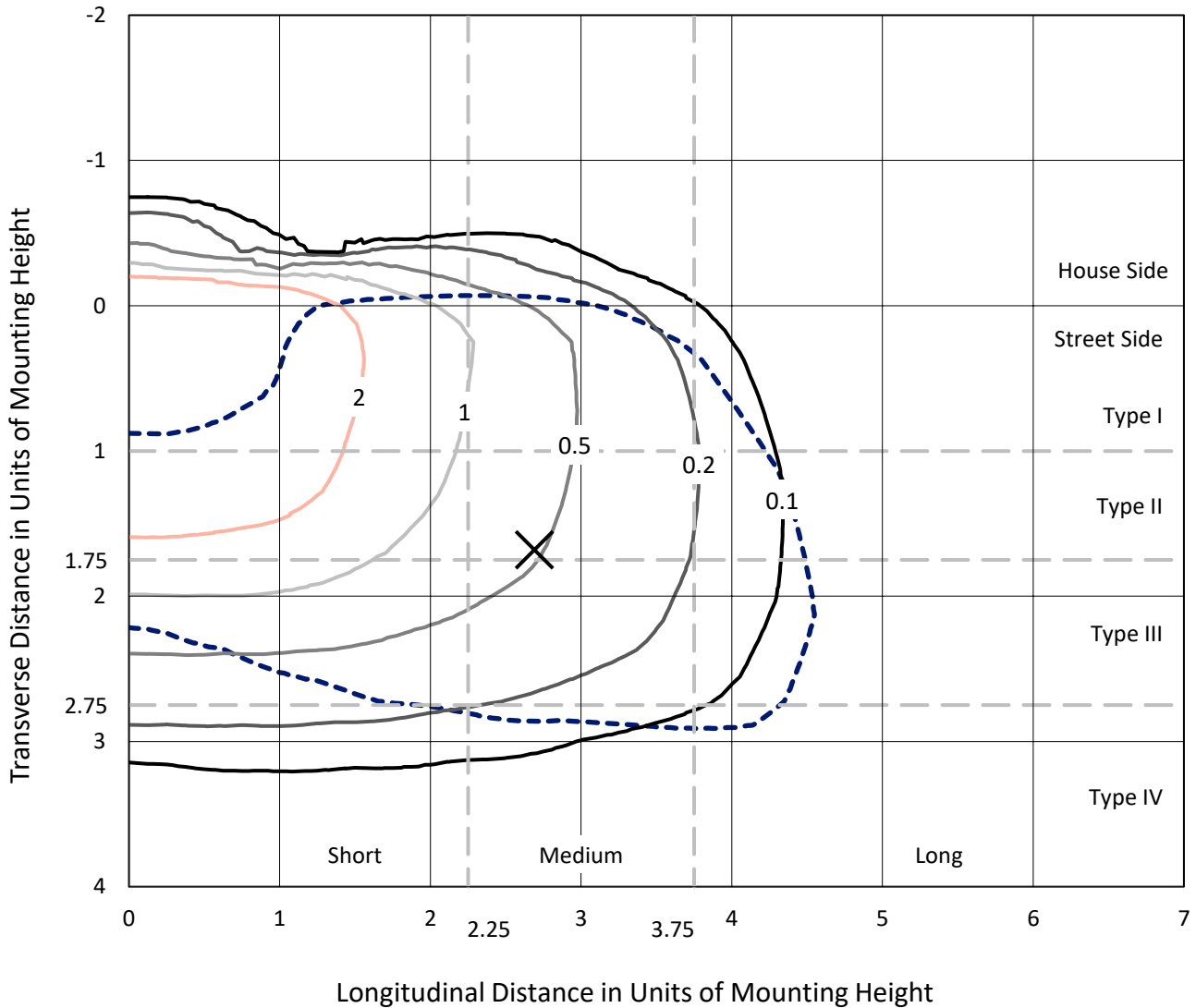
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

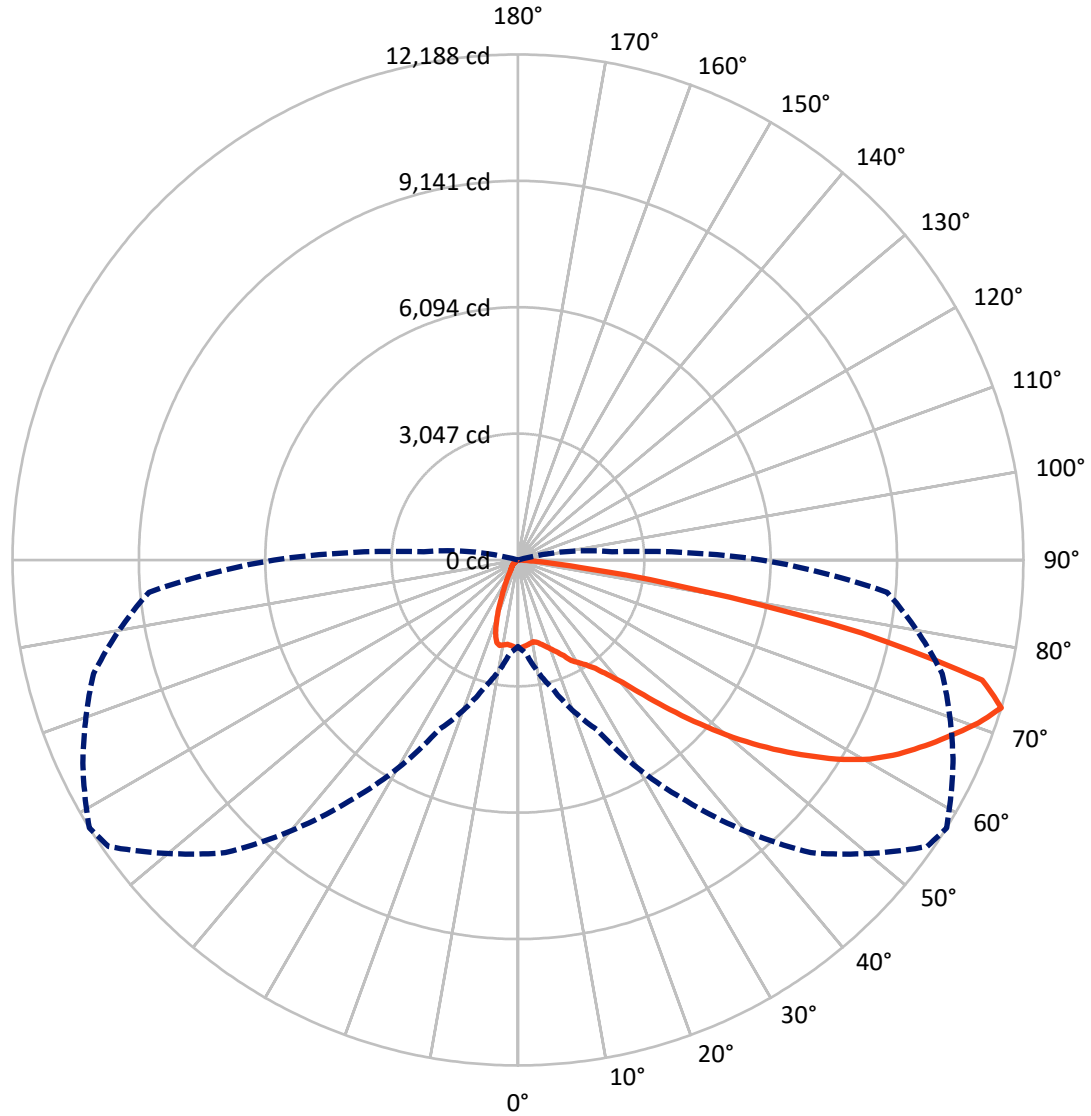
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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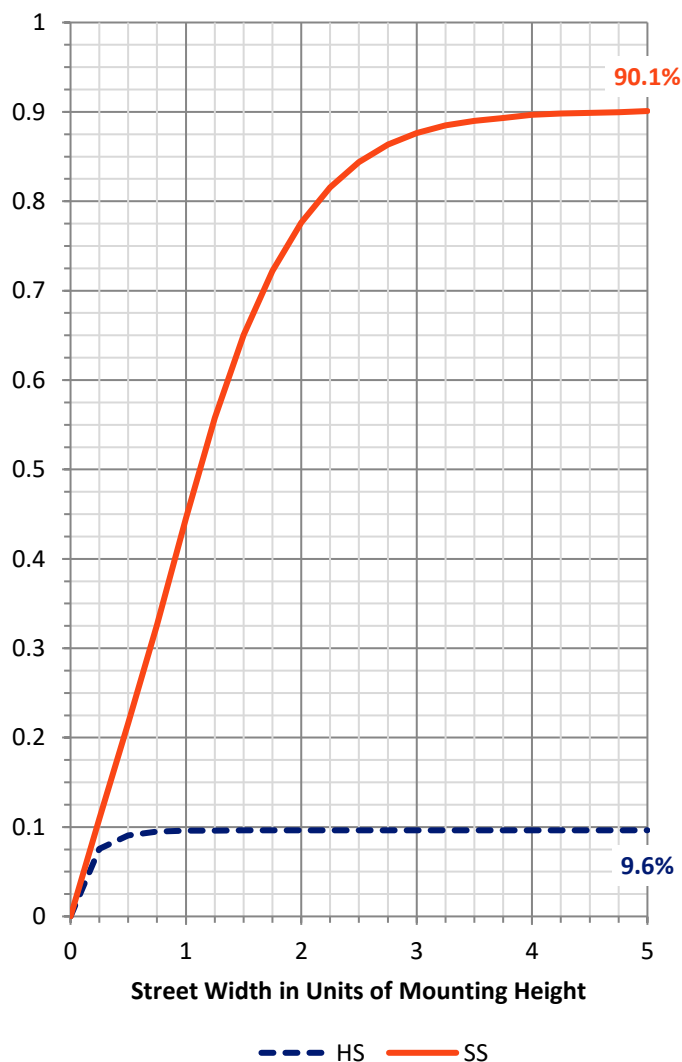
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1723.2	0.0	1723.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15997.8	0.0	15997.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	17721.0	0.0	17721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.1
10°-20°	508.3	2.9
20°-30°	798.5	4.5
30°-40°	1377.0	7.8
40°-50°	2619.9	14.8
50°-60°	4149.2	23.4
60°-70°	4841.6	27.3
70°-80°	3032.3	17.1
80°-90°	199.0	1.1
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°	17721.0	100.0
0°-180°	17721.0	100.0

Coefficient of Utilization



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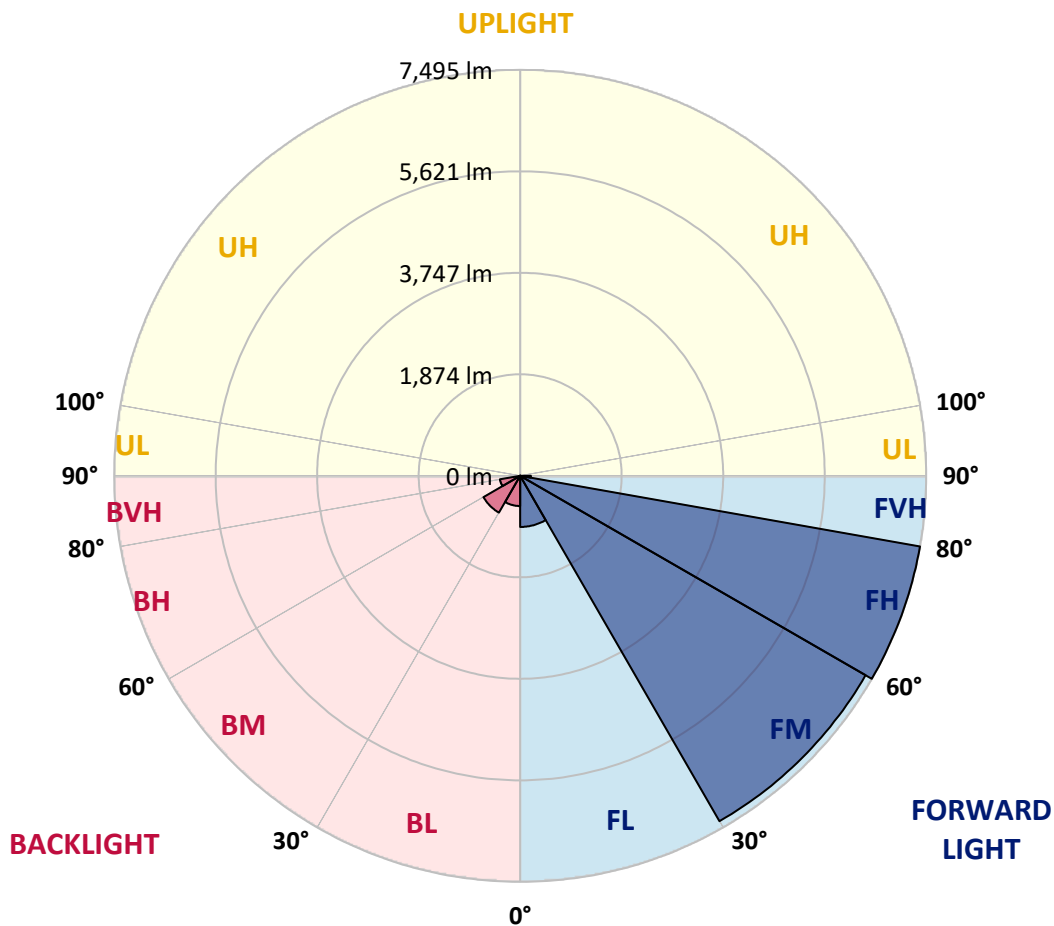
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.9	5.3			
FM (30°-60°)	7362.0	41.5			
FH (60°-80°)	7494.7	42.3			G3/7500
FVH (80°-90°)	197.1	1.1			G2/225
BL (0°-30°)	558.0	3.1	B2/1000		
BM (30°-60°)	784.1	4.4	B1/1000		
BH (60°-80°)	379.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4
2.5°	2116.9	2107.4	2104.2	2101.1	2104.2	2107.4	2097.9	2107.4	2101.1	2104.2	2110.6
5°	2040.8	2031.3	2028.2	2031.3	2040.8	2056.7	2063.0	2072.5	2072.5	2082.0	2085.2
7.5°	1955.3	1948.9	1945.8	1952.1	1971.1	2006.0	2025.0	2037.7	2050.4	2069.4	2088.4
10°	1907.7	1904.6	1901.4	1910.9	1929.9	1961.6	1987.0	2006.0	2053.5	2107.4	2142.3
12.5°	1876.1	1876.1	1882.4	1901.4	1926.8	1952.1	2012.3	2037.7	2110.6	2193.0	2240.5
15°	1850.7	1850.7	1860.2	1895.1	1929.9	1990.1	2078.9	2107.4	2193.0	2294.4	2357.8
17.5°	1831.7	1838.0	1844.4	1879.2	1945.8	2047.2	2151.8	2193.0	2297.5	2408.5	2478.2
20°	1834.9	1841.2	1844.4	1879.2	1974.3	2113.7	2246.8	2294.4	2414.8	2532.0	2601.8
22.5°	1853.9	1863.4	1866.6	1914.1	2025.0	2183.5	2354.6	2408.5	2538.4	2662.0	2715.8
25°	1933.1	1939.4	1920.4	1961.6	2097.9	2291.2	2494.0	2551.1	2681.0	2795.1	2839.4
27.5°	2202.5	2208.8	2104.2	2056.7	2154.9	2379.9	2665.1	2744.4	2906.0	2982.0	2988.4
30°	2785.6	2791.9	2585.9	2360.9	2291.2	2456.0	2760.2	2871.1	3080.3	3165.9	3127.8
32.5°	3536.6	3530.3	3248.2	2915.5	2614.4	2589.1	2896.5	3013.7	3241.9	3324.3	3295.8
35°	4290.9	4300.4	4059.5	3558.8	3127.8	2839.4	3070.8	3207.0	3482.8	3600.0	3549.3
37.5°	4807.4	4870.8	4766.2	4224.3	3758.5	3302.1	3352.8	3498.6	3844.0	4002.5	3894.7
40°	5536.3	5520.4	5266.9	4867.6	4455.6	3986.6	3809.2	3878.9	4275.0	4487.3	4319.4
42.5°	6515.5	6483.8	6052.8	5663.0	5203.5	4820.1	4458.8	4446.1	4769.4	5016.6	4772.5
45°	7402.8	7355.3	7060.6	6683.5	6179.6	5739.1	5251.1	5140.1	5365.1	5574.3	5289.1
47.5°	8109.5	8030.3	7821.1	7621.5	7497.9	6813.4	6081.3	5913.4	6027.5	6182.8	5780.3
50°	8946.1	8727.5	8423.3	8302.8	8559.5	8030.3	6879.9	6718.3	6712.0	6800.7	6287.3
52.5°	9326.4	8930.3	8759.2	8860.6	9313.7	9161.6	7741.9	7510.6	7418.7	7428.2	6759.5
55°	8866.9	8822.5	8914.5	9231.4	9824.0	9735.2	8569.0	8283.8	8147.5	7976.4	7212.7
57.5°	8344.0	8480.3	8844.7	9450.0	10470.4	10334.2	9383.5	9060.2	8809.9	8416.9	7716.6
60°	7862.3	8001.8	8603.9	9500.7	10825.4	10910.9	10061.6	9754.2	9383.5	8866.9	8271.1
62.5°	7130.3	7238.0	8084.2	9427.8	10670.1	11246.8	10533.8	10302.5	9957.1	9294.7	8908.1
65°	6306.3	6376.1	7212.7	8844.7	10365.9	11208.8	10923.6	10793.7	10457.8	9741.6	9538.7
67.5°	5403.2	5485.6	6182.8	7795.8	9770.1	11031.4	11291.2	11278.5	10895.1	10235.9	9995.1
70°	4363.7	4370.1	4946.8	6464.8	8730.6	10676.4	11747.6	11776.1	11313.4	10606.7	10014.1
72.5°	2088.4	2259.5	3207.0	4512.7	7095.4	9979.2	12045.4	12188.0	11576.4	10594.0	8933.5
75°	478.5	494.4	934.9	2145.4	4160.9	7659.5	11300.7	11566.9	10936.3	9161.6	6293.7
77.5°	174.3	183.8	263.0	627.5	1600.4	3958.1	8087.3	8477.1	8084.2	5922.9	2975.7
80°	117.3	114.1	136.3	278.9	735.2	1121.8	4135.6	4366.9	3986.6	2021.8	713.0
82.5°	60.2	63.4	95.1	155.3	494.4	389.8	1381.7	1502.1	1235.9	405.6	133.1
85°	28.5	28.5	53.9	98.2	209.2	136.3	307.4	370.8	332.7	177.5	44.4
87.5°	28.5	28.5	50.7	63.4	107.7	57.0	76.1	95.1	88.7	95.1	15.8
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°	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4	2126.4
2.5°	2110.6	2107.4	2104.2	2110.6	2107.4	2113.7	2113.7	2120.1	2120.1	2113.7	2110.6
5°	2082.0	2075.7	2069.4	2069.4	2066.2	2072.5	2091.6	2107.4	2110.6	2101.1	2097.9
7.5°	2085.2	2085.2	2078.9	2066.2	2044.0	2044.0	2044.0	2063.0	2072.5	2066.2	2063.0
10°	2142.3	2145.4	2129.6	2101.1	2063.0	2028.2	1961.6	1863.4	1771.5	1746.1	1736.6
12.5°	2240.5	2243.7	2212.0	2161.3	2082.0	1876.1	1622.5	1388.0	1207.4	1156.7	1147.2
15°	2357.8	2360.9	2303.9	2221.5	1980.6	1502.1	1125.0	858.8	700.4	662.3	659.2
17.5°	2478.2	2471.8	2386.3	2227.8	1679.6	1064.8	684.5	548.2	507.0	497.5	500.7
20°	2595.4	2576.4	2459.2	2110.6	1293.0	697.2	500.7	469.0	459.5	453.2	453.2
22.5°	2703.2	2665.1	2519.4	1879.2	906.3	500.7	446.8	440.5	427.8	418.3	415.1
25°	2810.9	2757.0	2557.4	1578.2	608.5	437.3	421.5	408.8	393.0	380.3	377.1
27.5°	2940.8	2864.8	2538.4	1197.9	456.3	405.6	393.0	373.9	351.8	332.7	326.4
30°	3064.4	2978.9	2430.6	827.1	389.8	373.9	354.9	326.4	297.9	275.7	269.4
32.5°	3219.7	3121.5	2237.3	541.9	339.1	326.4	307.4	272.5	234.5	209.2	202.8
35°	3441.6	3330.6	1990.1	380.3	297.9	275.7	250.4	212.3	171.1	152.1	148.9
37.5°	3752.1	3603.2	1679.6	307.4	263.0	231.3	193.3	155.3	126.8	110.9	107.7
40°	4132.4	3904.2	1334.2	272.5	234.5	193.3	145.8	110.9	91.9	79.2	79.2
42.5°	4544.4	4186.3	982.4	250.4	206.0	158.5	107.7	79.2	66.5	60.2	57.0
45°	4969.0	4436.6	662.3	231.3	180.6	120.4	76.1	53.9	44.4	44.4	41.2
47.5°	5409.5	4604.6	427.8	209.2	152.1	88.7	50.7	38.0	31.7	31.7	31.7
50°	5846.8	4693.3	304.2	190.1	123.6	60.2	38.0	28.5	25.4	25.4	25.4
52.5°	6163.7	4636.3	244.0	164.8	95.1	44.4	28.5	22.2	19.0	19.0	19.0
55°	6439.4	4538.0	212.3	142.6	69.7	31.7	22.2	19.0	15.8	15.8	15.8
57.5°	6721.5	4411.3	190.1	120.4	50.7	22.2	15.8	12.7	12.7	12.7	12.7
60°	6978.2	4195.8	164.8	95.1	34.9	15.8	12.7	9.5	9.5	9.5	9.5
62.5°	7228.5	4012.0	142.6	72.9	25.4	12.7	6.3	6.3	3.2	3.2	3.2
65°	7371.1	3764.8	114.1	47.5	15.8	9.5	3.2	3.2	0.0	0.0	0.0
67.5°	7326.8	3470.1	79.2	28.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0
70°	7019.4	3073.9	47.5	15.8	9.5	6.3	3.2	0.0	0.0	0.0	0.0
72.5°	5878.5	2275.4	28.5	12.7	6.3	3.2	0.0	0.0	0.0	0.0	0.0
75°	3926.4	1045.8	15.8	9.5	3.2	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1796.8	313.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	361.3	82.4	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.1	15.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	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)