

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: P399592

Luminaire Tested: **ARCH-L-PA3-160-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399592  
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-PA3-160-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 705mA 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: 18200 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

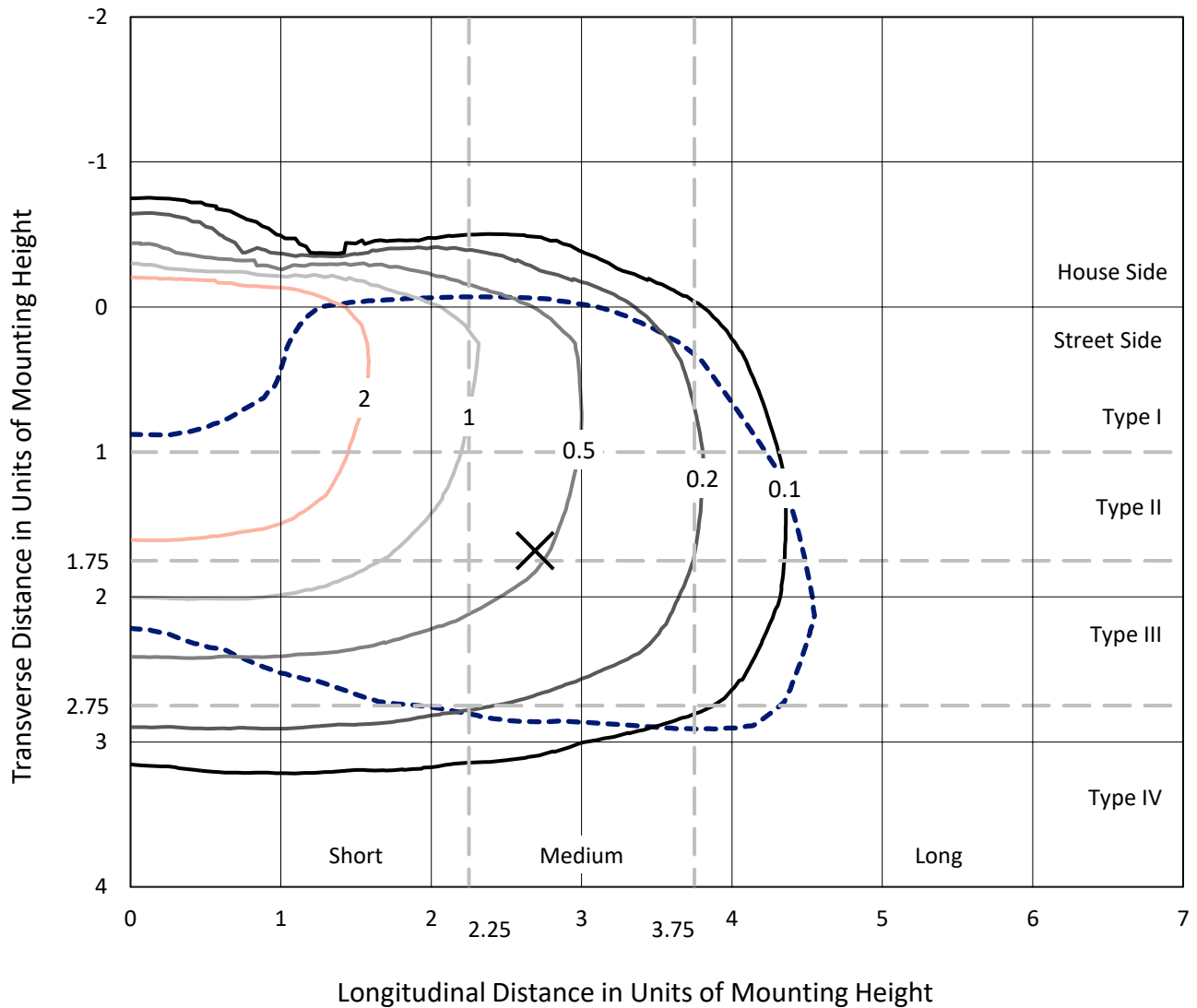
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

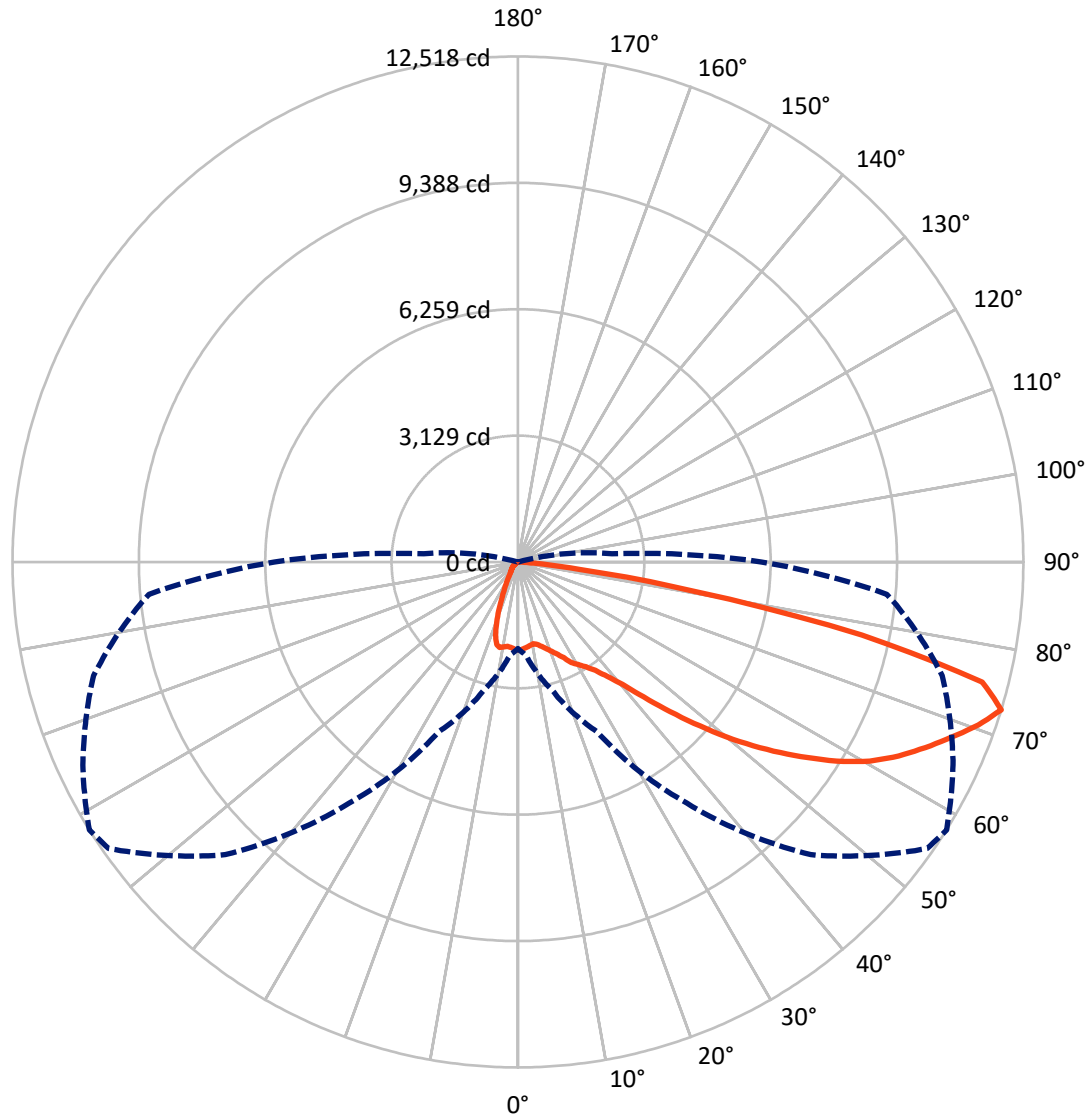
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	1769.8	0.0	1769.8
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	16430.2	0.0	16430.2
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	18200.0	0.0	18200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	1.1
10°-20°	522.0	2.9
20°-30°	820.1	4.5
30°-40°	1414.3	7.8
40°-50°	2690.7	14.8
50°-60°	4261.3	23.4
60°-70°	4972.5	27.3
70°-80°	3114.3	17.1
80°-90°	204.4	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°	18200.0	100.0
0°-180°	18200.0	100.0

**Coefficient of Utilization**

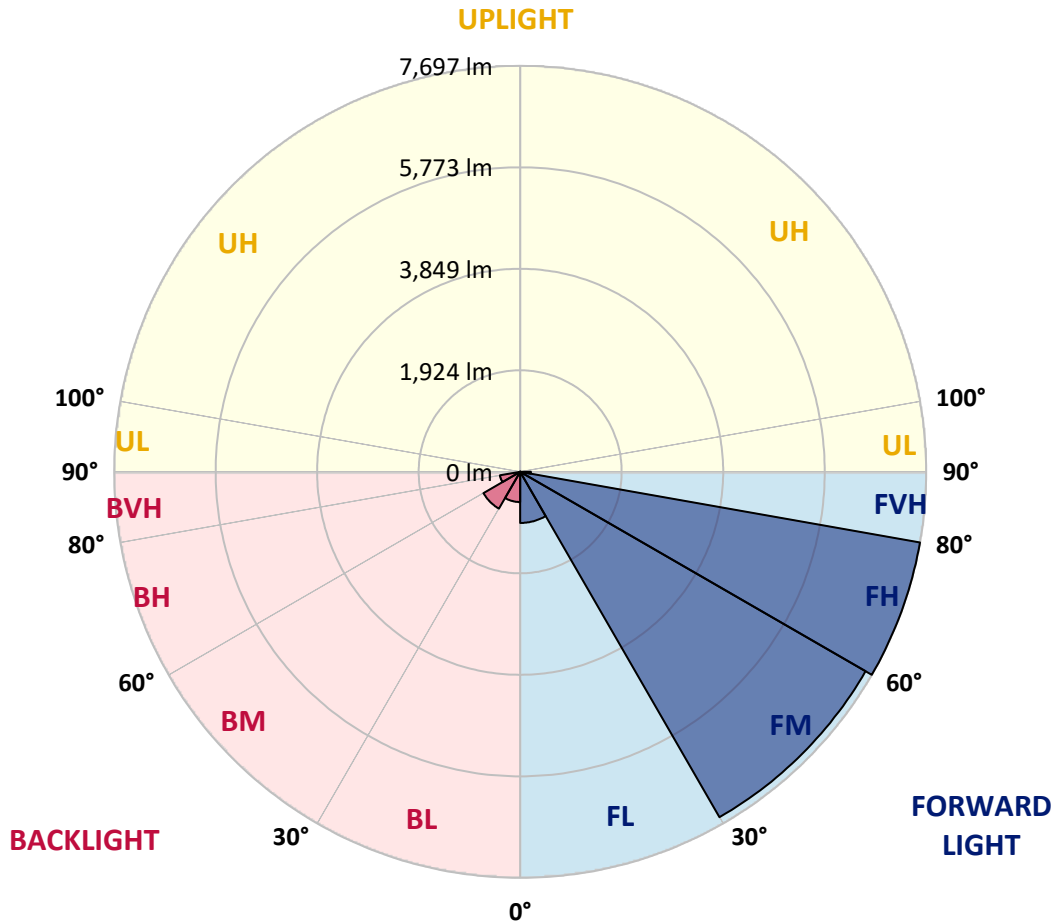


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.4	5.3			
FM (30°-60°)	7561.0	41.5			
FH (60°-80°)	7697.3	42.3			G4/12000
FVH (80°-90°)	202.4	1.1			G2/225
BL (0°-30°)	573.1	3.1	B2/1000		
BM (30°-60°)	805.3	4.4	B1/1000		
BH (60°-80°)	389.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9
2.5°	2174.1	2164.4	2161.1	2157.9	2161.1	2164.4	2154.6	2164.4	2157.9	2161.1	2167.6
5°	2096.0	2086.2	2083.0	2086.2	2096.0	2112.3	2118.8	2128.6	2128.6	2138.3	2141.6
7.5°	2008.1	2001.6	1998.4	2004.9	2024.4	2060.2	2079.7	2092.8	2105.8	2125.3	2144.8
10°	1959.3	1956.1	1952.8	1962.6	1982.1	2014.6	2040.7	2060.2	2109.0	2164.4	2200.2
12.5°	1926.8	1926.8	1933.3	1952.8	1978.8	2004.9	2066.7	2092.8	2167.6	2252.2	2301.1
15°	1900.7	1900.7	1910.5	1946.3	1982.1	2043.9	2135.1	2164.4	2252.2	2356.4	2421.5
17.5°	1881.2	1887.7	1894.2	1930.0	1998.4	2102.5	2209.9	2252.2	2359.6	2473.6	2545.2
20°	1884.5	1891.0	1894.2	1930.0	2027.7	2170.9	2307.6	2356.4	2480.1	2600.5	2672.1
22.5°	1904.0	1913.8	1917.0	1965.8	2079.7	2242.5	2418.2	2473.6	2607.0	2733.9	2789.3
25°	1985.4	1991.9	1972.3	2014.6	2154.6	2353.1	2561.4	2620.0	2753.5	2870.6	2916.2
27.5°	2262.0	2268.5	2161.1	2112.3	2213.2	2444.3	2737.2	2818.6	2984.5	3062.7	3069.2
30°	2860.9	2867.4	2655.8	2424.7	2353.1	2522.4	2834.8	2948.7	3163.5	3251.4	3212.4
32.5°	3632.2	3625.7	3336.0	2994.3	2685.1	2659.1	2974.8	3095.2	3329.5	3414.2	3384.9
35°	4406.8	4416.6	4169.2	3655.0	3212.4	2916.2	3153.8	3293.7	3576.9	3697.3	3645.2
37.5°	4937.3	5002.4	4895.0	4338.5	3860.0	3391.4	3443.4	3593.2	3947.9	4110.7	4000.0
40°	5685.9	5669.6	5409.3	4999.2	4576.1	4094.4	3912.1	3983.7	4390.6	4608.6	4436.1
42.5°	6691.6	6659.1	6216.4	5816.1	5344.2	4950.4	4579.3	4566.3	4898.3	5152.2	4901.5
45°	7602.9	7554.1	7251.4	6864.1	6346.6	5894.2	5393.0	5279.1	5510.2	5725.0	5432.1
47.5°	8328.7	8247.4	8032.5	7827.5	7700.6	6997.6	6245.7	6073.2	6190.4	6349.9	5936.5
50°	9188.0	8963.4	8650.9	8527.3	8790.9	8247.4	7065.9	6899.9	6893.4	6984.5	6457.3
52.5°	9578.5	9171.7	8995.9	9100.1	9565.5	9409.3	7951.2	7713.6	7619.2	7629.0	6942.2
55°	9106.6	9061.0	9155.4	9480.9	10089.5	9998.4	8800.6	8507.7	8367.8	8192.0	7407.6
57.5°	8569.6	8709.5	9083.8	9705.5	10753.5	10613.5	9637.1	9305.1	9048.0	8644.4	7925.1
60°	8074.9	8218.1	8836.5	9757.5	11118.0	11205.9	10333.6	10017.9	9637.1	9106.6	8494.7
62.5°	7323.0	7433.7	8302.7	9682.7	10958.5	11550.9	10818.6	10581.0	10226.2	9546.0	9148.9
65°	6476.8	6548.4	7407.6	9083.8	10646.1	11511.8	11218.9	11085.4	10740.4	10004.9	9796.6
67.5°	5549.2	5633.8	6349.9	8006.5	10034.2	11329.5	11596.4	11583.4	11189.6	10512.6	10265.3
70°	4481.7	4488.2	5080.6	6639.5	8966.6	10965.0	12065.1	12094.4	11619.2	10893.4	10284.8
72.5°	2144.8	2320.6	3293.7	4634.7	7287.2	10249.0	12371.0	12517.5	11889.3	10880.4	9174.9
75°	491.5	507.7	960.1	2203.4	4273.4	7866.6	11606.2	11879.6	11231.9	9409.3	6463.8
77.5°	179.0	188.8	270.1	644.4	1643.6	4065.1	8305.9	8706.3	8302.7	6083.0	3056.1
80°	120.4	117.2	140.0	286.4	755.1	1152.2	4247.4	4484.9	4094.4	2076.5	732.3
82.5°	61.8	65.1	97.6	159.5	507.7	400.3	1419.0	1542.7	1269.3	416.6	136.7
85°	29.3	29.3	55.3	100.9	214.8	140.0	315.7	380.8	341.7	182.3	45.6
87.5°	29.3	29.3	52.1	65.1	110.7	58.6	78.1	97.6	91.1	97.6	16.3
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9
2.5°	2167.6	2164.4	2161.1	2167.6	2164.4	2170.9	2170.9	2177.4	2177.4	2170.9	2167.6
5°	2138.3	2131.8	2125.3	2125.3	2122.1	2128.6	2148.1	2164.4	2167.6	2157.9	2154.6
7.5°	2141.6	2141.6	2135.1	2122.1	2099.3	2099.3	2099.3	2118.8	2128.6	2122.1	2118.8
10°	2200.2	2203.4	2187.1	2157.9	2118.8	2083.0	2014.6	1913.8	1819.4	1793.3	1783.6
12.5°	2301.1	2304.3	2271.8	2219.7	2138.3	1926.8	1666.4	1425.5	1240.0	1188.0	1178.2
15°	2421.5	2424.7	2366.2	2281.5	2034.2	1542.7	1155.4	882.0	719.3	680.2	677.0
17.5°	2545.2	2538.6	2450.8	2288.0	1725.0	1093.6	703.0	563.1	520.7	511.0	514.2
20°	2665.6	2646.1	2525.6	2167.6	1327.9	716.0	514.2	481.7	471.9	465.4	465.4
22.5°	2776.2	2737.2	2587.5	1930.0	930.8	514.2	458.9	452.4	439.4	429.6	426.4
25°	2886.9	2831.6	2626.5	1620.8	624.9	449.1	432.9	419.9	403.6	390.6	387.3
27.5°	3020.3	2942.2	2607.0	1230.3	468.7	416.6	403.6	384.1	361.3	341.7	335.2
30°	3147.3	3059.4	2496.3	849.5	400.3	384.1	364.5	335.2	305.9	283.2	276.6
32.5°	3306.8	3205.9	2297.8	556.5	348.3	335.2	315.7	279.9	240.8	214.8	208.3
35°	3534.6	3420.7	2043.9	390.6	305.9	283.2	257.1	218.1	175.8	156.2	153.0
37.5°	3853.5	3700.6	1725.0	315.7	270.1	237.6	198.5	159.5	130.2	113.9	110.7
40°	4244.1	4009.8	1370.2	279.9	240.8	198.5	149.7	113.9	94.4	81.4	81.4
42.5°	4667.2	4299.4	1009.0	257.1	211.6	162.7	110.7	81.4	68.3	61.8	58.6
45°	5103.3	4556.5	680.2	237.6	185.5	123.7	78.1	55.3	45.6	45.6	42.3
47.5°	5555.7	4729.0	439.4	214.8	156.2	91.1	52.1	39.1	32.5	32.5	32.5
50°	6004.9	4820.2	312.4	195.3	126.9	61.8	39.1	29.3	26.0	26.0	26.0
52.5°	6330.3	4761.6	250.6	169.2	97.6	45.6	29.3	22.8	19.5	19.5	19.5
55°	6613.5	4660.7	218.1	146.5	71.6	32.5	22.8	19.5	16.3	16.3	16.3
57.5°	6903.2	4530.5	195.3	123.7	52.1	22.8	16.3	13.0	13.0	13.0	13.0
60°	7166.8	4309.2	169.2	97.6	35.8	16.3	13.0	9.8	9.8	9.8	9.8
62.5°	7423.9	4120.4	146.5	74.9	26.0	13.0	6.5	6.5	3.3	3.3	3.3
65°	7570.4	3866.6	117.2	48.8	16.3	9.8	3.3	3.3	0.0	0.0	0.0
67.5°	7524.8	3563.9	81.4	29.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
70°	7209.1	3157.0	48.8	16.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	6037.4	2336.9	29.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	4032.5	1074.0	16.3	9.8	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1845.4	322.2	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	371.0	84.6	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.1	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	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)