

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: P399887

Luminaire Tested: **ARCH-L-PA3-200-827-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-200-827-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14738 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

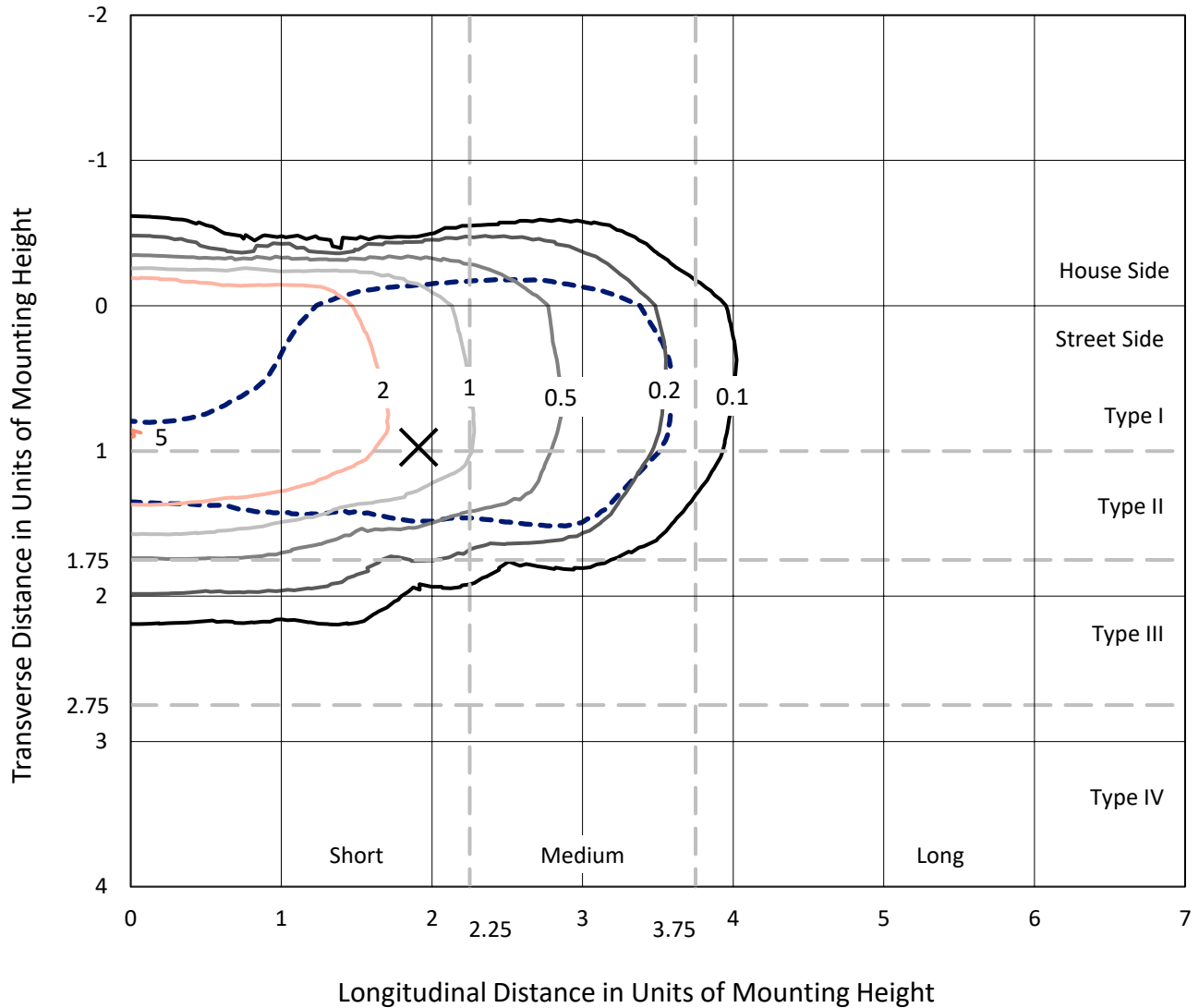
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

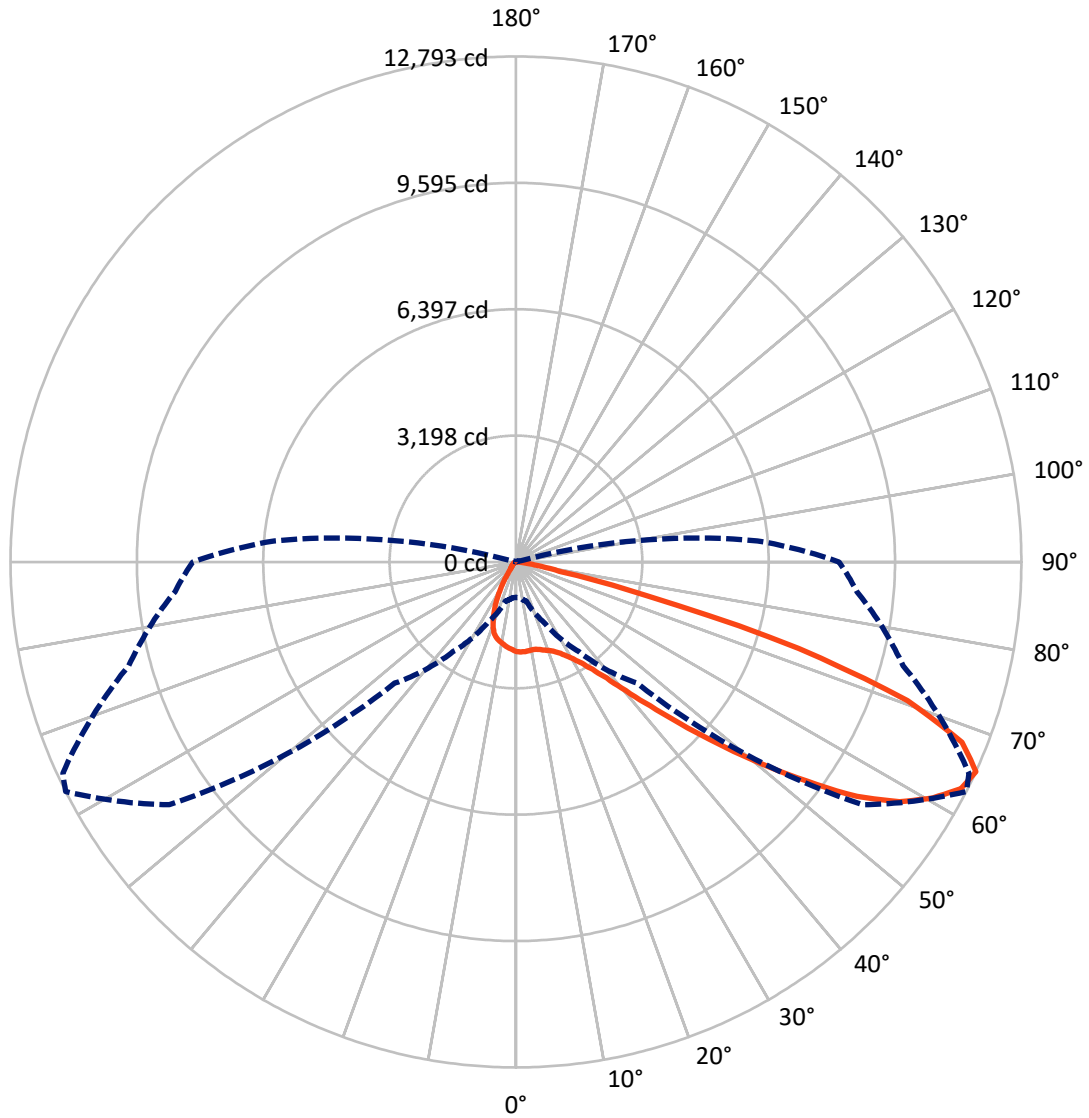
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1896.8	0.0	1896.8
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	12841.2	0.0	12841.2
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	14738.0	0.0	14738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.2	1.4
10°-20°	511.1	3.5
20°-30°	757.5	5.1
30°-40°	1406.5	9.5
40°-50°	2979.5	20.2
50°-60°	4119.9	28.0
60°-70°	3298.1	22.4
70°-80°	1370.3	9.3
80°-90°	88.0	0.6
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°	14738.0	100.0
0°-180°	14738.0	100.0

**Coefficient of Utilization**



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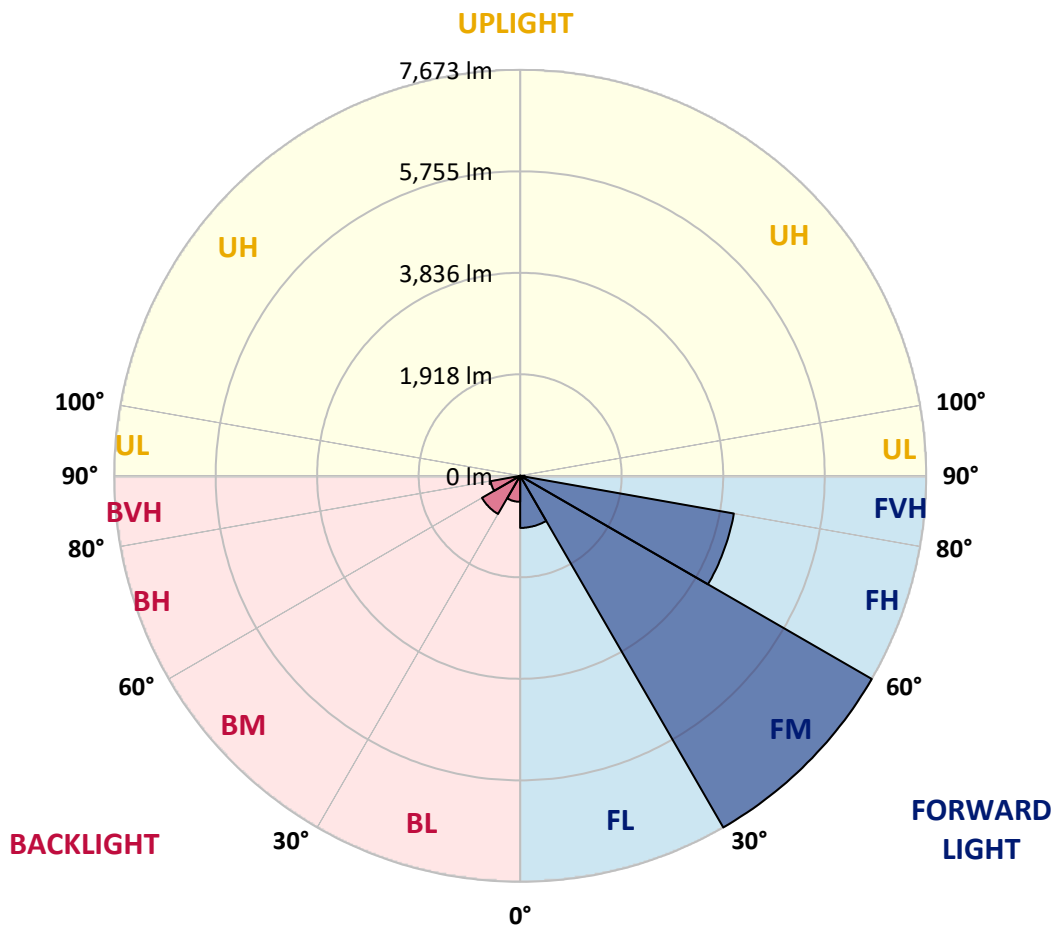
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.1	6.7			
FM (30°-60°)	7672.7	52.1			
FH (60°-80°)	4100.4	27.8			G2/5000
FVH (80°-90°)	84.0	0.6			G1/100
BL (0°-30°)	491.6	3.3	B1/500		
BM (30°-60°)	833.2	5.7	B1/1000		
BH (60°-80°)	568.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4
2.5°	2309.3	2303.8	2298.2	2295.4	2295.4	2292.7	2281.5	2278.7	2273.2	2267.6	2262.0
5°	2287.1	2278.7	2276.0	2278.7	2281.5	2287.1	2281.5	2281.5	2276.0	2270.4	2259.3
7.5°	2231.4	2225.9	2228.7	2237.0	2239.8	2259.3	2262.0	2270.4	2270.4	2264.8	2256.5
10°	2164.7	2161.9	2161.9	2175.8	2189.7	2217.5	2237.0	2259.3	2262.0	2262.0	2248.1
12.5°	2114.6	2111.8	2120.1	2136.8	2164.7	2200.8	2234.2	2267.6	2273.2	2276.0	2253.7
15°	2084.0	2084.0	2095.1	2128.5	2167.4	2217.5	2256.5	2301.0	2306.6	2303.8	2273.2
17.5°	2056.2	2058.9	2081.2	2136.8	2181.4	2248.1	2295.4	2345.5	2348.3	2345.5	2295.4
20°	2045.0	2050.6	2084.0	2156.3	2206.4	2281.5	2342.7	2392.8	2395.6	2384.5	2317.7
22.5°	2075.6	2078.4	2120.1	2198.1	2245.4	2328.8	2406.7	2454.0	2456.8	2440.1	2351.1
25°	2181.4	2181.4	2217.5	2284.3	2326.0	2409.5	2493.0	2548.6	2548.6	2529.2	2426.2
27.5°	2429.0	2406.7	2398.4	2417.9	2431.8	2520.8	2609.8	2679.4	2676.6	2648.8	2523.6
30°	2907.6	2851.9	2762.9	2662.7	2612.6	2673.8	2757.3	2846.3	2843.6	2799.0	2643.2
32.5°	3711.7	3631.0	3419.5	3155.2	2940.9	2871.4	2949.3	3046.7	3049.5	2996.6	2835.2
35°	4838.5	4710.5	4332.1	3964.8	3475.2	3210.8	3233.1	3338.8	3372.2	3344.4	3158.0
37.5°	5923.6	5806.8	5445.1	4935.9	4270.9	3731.1	3636.5	3728.3	3767.3	3767.3	3569.8
40°	7017.1	6880.7	6560.8	6048.8	5347.7	4543.6	4204.1	4279.3	4321.0	4329.3	4070.6
42.5°	7893.5	7804.5	7559.6	7161.8	6505.1	5968.1	5022.1	4980.4	5019.4	4988.8	4652.1
45°	8500.1	8430.5	8260.8	8110.5	7790.6	7520.7	6115.6	5834.6	5859.6	5753.9	5305.9
47.5°	8625.3	8547.4	8511.2	8719.9	8948.0	9014.8	7459.5	6850.1	6825.1	6591.4	5984.8
50°	8079.9	8088.3	8221.8	8817.3	9768.8	10369.8	9017.6	7996.5	7904.7	7384.4	6616.4
52.5°	6903.0	7036.6	7373.2	8338.7	10019.2	11354.8	10575.7	9212.4	9070.5	8155.1	7089.4
55°	5400.5	5573.0	6126.7	7236.9	9496.2	11794.4	11889.0	10475.5	10152.8	8733.8	7456.7
57.5°	4014.9	4067.8	4713.3	5726.1	8258.0	11363.1	12562.3	11449.4	11034.8	9195.7	7821.2
60°	2501.3	2534.7	3216.4	4359.9	6254.7	9768.8	12562.3	12119.9	11724.8	9610.2	8155.1
62.5°	1555.3	1566.5	1822.4	2988.2	4251.4	7245.2	12042.0	12640.2	12323.0	9907.9	8441.6
65°	895.9	907.0	1026.7	1688.9	2765.7	4337.7	10712.0	12793.2	12651.3	10144.4	8664.2
67.5°	653.9	659.4	706.7	948.8	1808.5	2228.7	8046.6	12178.3	12356.4	10261.3	8658.7
70°	567.6	575.9	637.2	740.1	1304.9	1368.9	4095.6	10517.3	11015.3	10094.4	8399.9
72.5°	436.8	448.0	539.8	695.6	957.1	985.0	1483.0	7484.5	8238.5	9051.0	7690.4
75°	300.5	311.6	403.4	573.2	790.2	737.3	815.2	3444.5	4346.0	6071.1	5854.1
77.5°	192.0	194.8	253.2	417.4	681.7	523.1	559.3	1124.1	1577.6	2746.2	2762.9
80°	128.0	130.8	155.8	269.9	467.4	484.1	345.0	520.3	570.4	801.3	556.5
82.5°	77.9	77.9	105.7	169.7	283.8	400.7	225.4	272.7	292.1	308.8	144.7
85°	30.6	30.6	64.0	111.3	178.1	186.4	141.9	158.6	166.9	180.9	66.8
87.5°	8.3	8.3	36.2	61.2	77.9	86.3	86.3	77.9	83.5	102.9	33.4
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°	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4	2270.4
2.5°	2259.3	2250.9	2239.8	2228.7	2217.5	2209.2	2200.8	2200.8	2195.3	2186.9	2181.4
5°	2253.7	2239.8	2214.7	2195.3	2164.7	2142.4	2125.7	2111.8	2103.5	2084.0	2081.2
7.5°	2245.4	2228.7	2192.5	2153.5	2103.5	2064.5	2025.6	1997.7	1969.9	1947.6	1942.1
10°	2231.4	2212.0	2159.1	2103.5	2033.9	1961.6	1869.7	1764.0	1666.6	1611.0	1594.3
12.5°	2231.4	2206.4	2136.8	2061.7	1961.6	1783.5	1549.8	1316.1	1135.2	1054.5	1032.3
15°	2245.4	2212.0	2120.1	2017.2	1830.8	1469.1	1090.7	781.8	584.3	523.1	509.2
17.5°	2259.3	2212.0	2095.1	1956.0	1591.5	1065.6	620.5	411.8	347.8	333.9	333.9
20°	2264.8	2206.4	2061.7	1841.9	1271.5	662.2	370.1	308.8	283.8	275.5	275.5
22.5°	2287.1	2209.2	2036.7	1677.8	923.7	389.5	292.1	258.8	233.7	225.4	225.4
25°	2342.7	2242.6	2042.2	1469.1	592.6	294.9	247.6	214.2	189.2	178.1	178.1
27.5°	2431.8	2317.7	2072.9	1227.0	372.8	253.2	208.7	172.5	153.0	141.9	141.9
30°	2531.9	2401.2	2086.8	948.8	278.2	214.2	169.7	136.3	122.4	114.1	111.3
32.5°	2707.2	2545.8	2075.6	651.1	228.2	180.9	136.3	108.5	97.4	94.6	94.6
35°	2988.2	2799.0	2053.4	409.0	189.2	144.7	108.5	89.0	80.7	77.9	75.1
37.5°	3369.4	3169.1	1986.6	269.9	155.8	114.1	89.0	75.1	66.8	64.0	64.0
40°	3834.1	3592.0	1858.6	205.9	133.6	91.8	75.1	64.0	58.4	55.6	55.6
42.5°	4365.5	4062.2	1655.5	178.1	111.3	77.9	64.0	52.9	50.1	47.3	47.3
45°	4947.0	4554.7	1374.5	158.6	94.6	64.0	52.9	47.3	41.7	41.7	39.0
47.5°	5564.7	5050.0	1057.3	139.1	80.7	55.6	47.3	39.0	36.2	33.4	33.4
50°	6160.1	5492.4	742.9	119.6	66.8	47.3	39.0	33.4	30.6	27.8	27.8
52.5°	6580.3	5759.5	525.9	102.9	55.6	41.7	30.6	25.0	22.3	22.3	22.3
55°	6916.9	5926.4	367.3	86.3	47.3	36.2	25.0	19.5	19.5	16.7	16.7
57.5°	7234.1	6034.9	269.9	72.3	39.0	27.8	19.5	13.9	13.9	11.1	11.1
60°	7562.4	6093.3	205.9	58.4	33.4	22.3	13.9	11.1	8.3	8.3	8.3
62.5°	7893.5	6129.5	158.6	47.3	27.8	16.7	11.1	8.3	5.6	2.8	2.8
65°	8182.9	6140.6	122.4	36.2	22.3	11.1	8.3	2.8	0.0	0.0	0.0
67.5°	8269.1	6012.7	94.6	27.8	16.7	8.3	5.6	0.0	0.0	0.0	0.0
70°	8035.4	5673.2	72.3	22.3	13.9	5.6	2.8	0.0	0.0	0.0	0.0
72.5°	7131.2	4757.8	55.6	13.9	11.1	5.6	2.8	0.0	0.0	0.0	0.0
75°	5102.8	2537.5	39.0	11.1	8.3	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	2348.3	982.2	27.8	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	459.1	244.8	11.1	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	105.7	41.7	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.2	13.9	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.6	2.8	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)