

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: P399374

Luminaire Tested: **ARCH-L-PA3-130-760-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399374  
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-PA3-130-760-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 575mA 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: 14597 lumens  
Efficiency: N/A  
Efficacy: 109.8 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

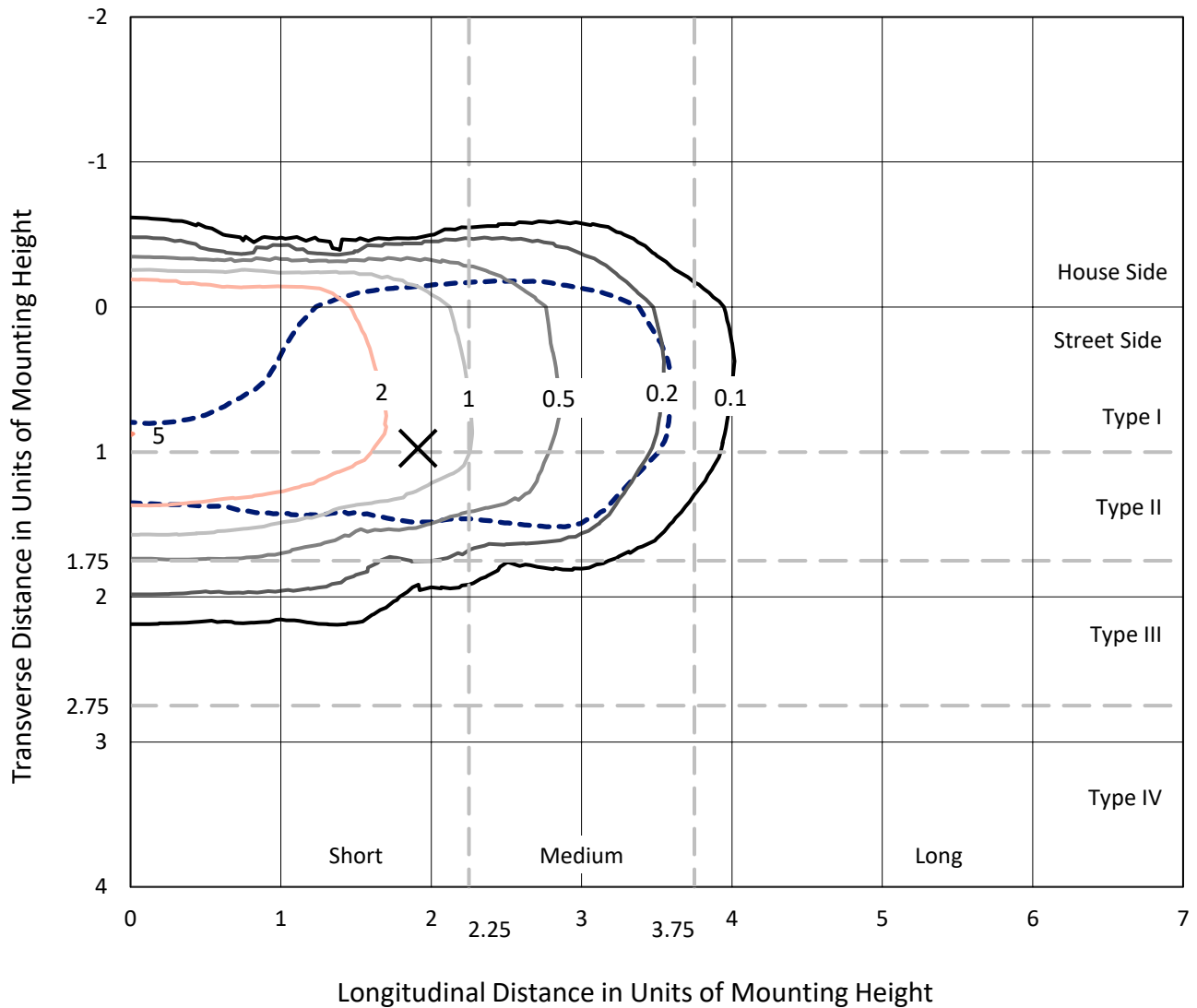
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

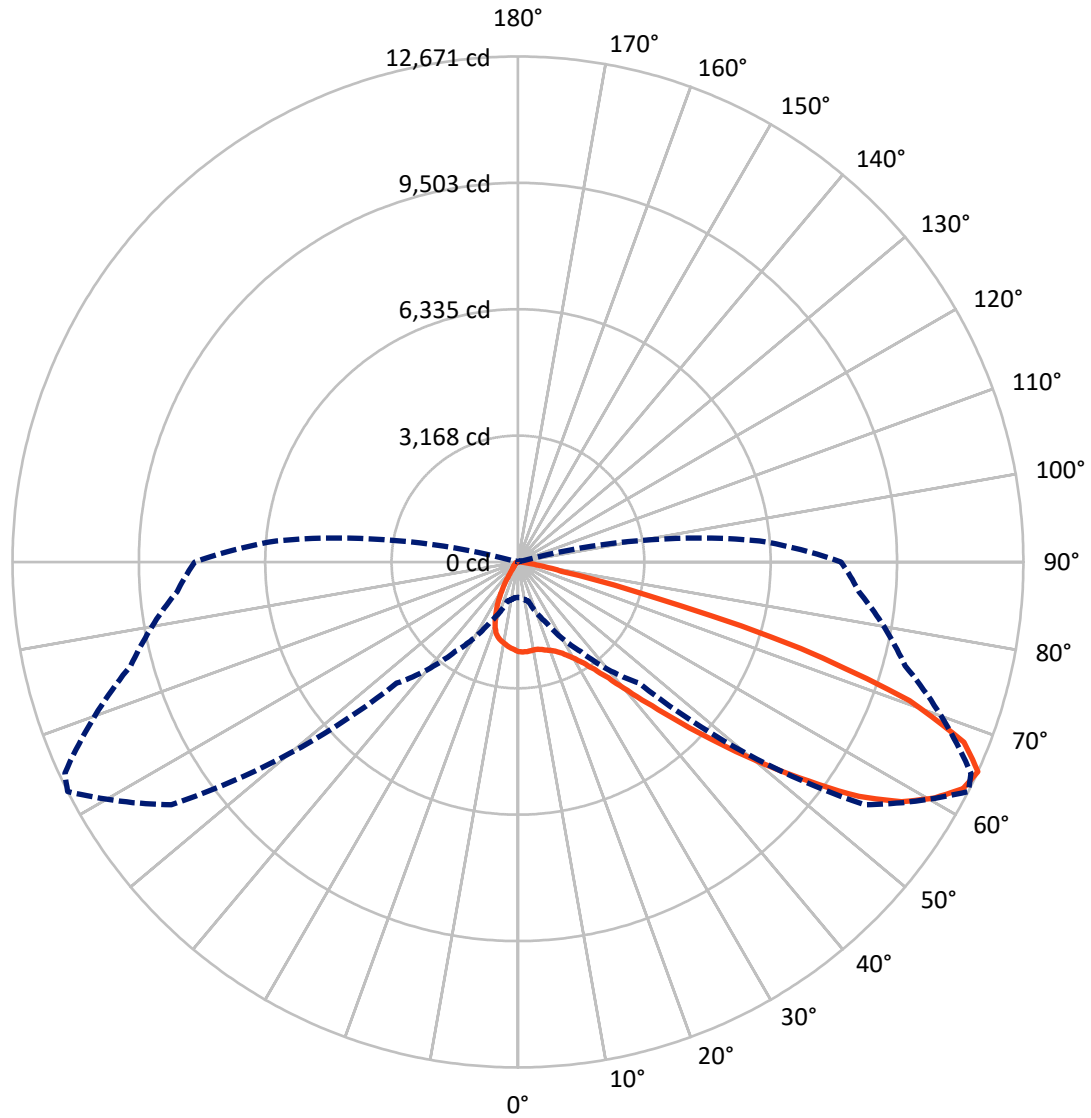
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1878.6	0.0	1878.6
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	12718.4	0.0	12718.4
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	14597.0	0.0	14597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	1.4
10°-20°	506.2	3.5
20°-30°	750.2	5.1
30°-40°	1393.0	9.5
40°-50°	2951.0	20.2
50°-60°	4080.5	28.0
60°-70°	3266.6	22.4
70°-80°	1357.2	9.3
80°-90°	87.1	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°	14597.0	100.0
0°-180°	14597.0	100.0

**Coefficient of Utilization**



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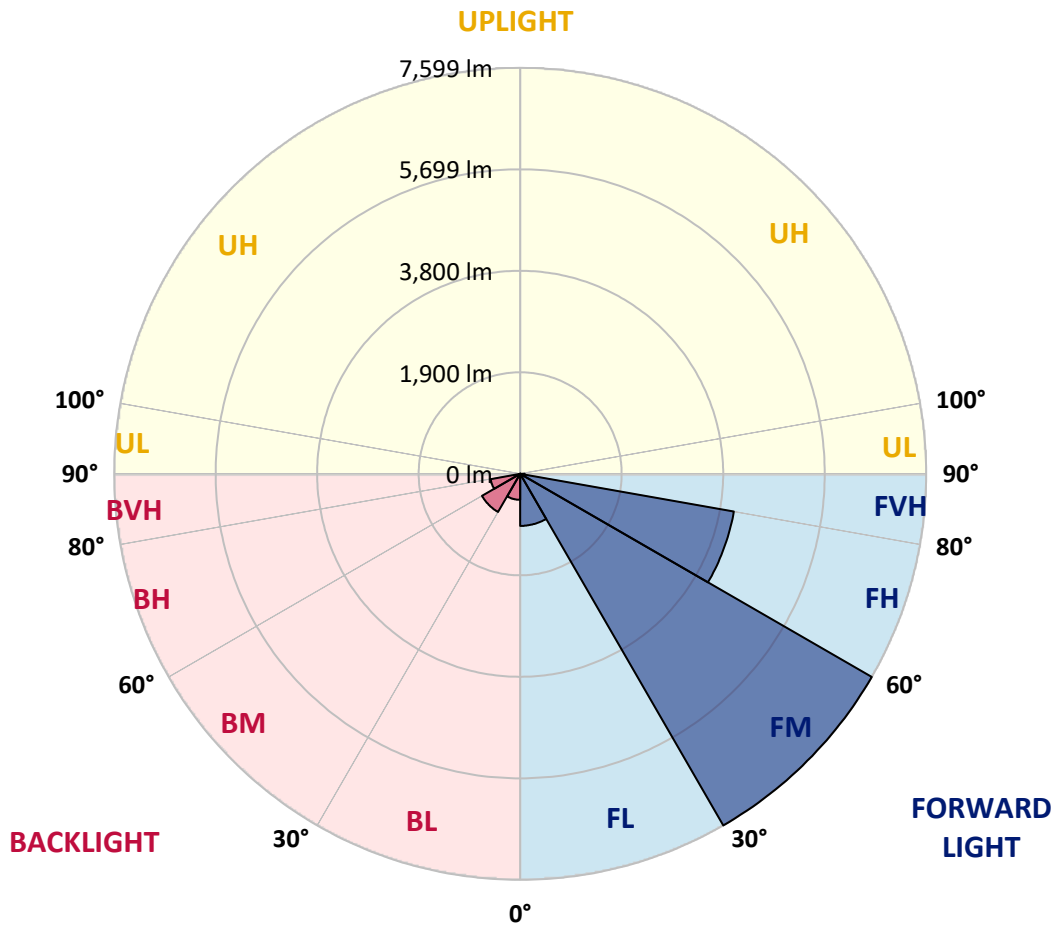
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.7	6.7			
FM (30°-60°)	7599.3	52.1			
FH (60°-80°)	4061.2	27.8			G2/5000
FVH (80°-90°)	83.2	0.6			G1/100
BL (0°-30°)	486.9	3.3	B1/500		
BM (30°-60°)	825.2	5.7	B1/1000		
BH (60°-80°)	562.5	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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2287.3	2281.7	2276.2	2273.5	2273.5	2270.7	2259.7	2256.9	2251.4	2245.9	2240.4
5°	2265.2	2256.9	2254.2	2256.9	2259.7	2265.2	2259.7	2259.7	2254.2	2248.7	2237.7
7.5°	2210.1	2204.6	2207.3	2215.6	2218.4	2237.7	2240.4	2248.7	2248.7	2243.2	2234.9
10°	2144.0	2141.2	2141.2	2155.0	2168.8	2196.3	2215.6	2237.7	2240.4	2240.4	2226.6
12.5°	2094.4	2091.6	2099.9	2116.4	2144.0	2179.8	2212.9	2245.9	2251.4	2254.2	2232.1
15°	2064.0	2064.0	2075.1	2108.1	2146.7	2196.3	2234.9	2279.0	2284.5	2281.7	2251.4
17.5°	2036.5	2039.2	2061.3	2116.4	2160.5	2226.6	2273.5	2323.1	2325.8	2323.1	2273.5
20°	2025.5	2031.0	2064.0	2135.7	2185.3	2259.7	2320.3	2369.9	2372.7	2361.7	2295.5
22.5°	2055.8	2058.5	2099.9	2177.0	2223.9	2306.5	2383.7	2430.6	2433.3	2416.8	2328.6
25°	2160.5	2160.5	2196.3	2262.5	2303.8	2386.5	2469.1	2524.2	2524.2	2505.0	2403.0
27.5°	2405.8	2383.7	2375.4	2394.7	2408.5	2496.7	2584.9	2653.8	2651.0	2623.5	2499.4
30°	2879.7	2824.6	2736.4	2637.2	2587.6	2648.3	2730.9	2819.1	2816.4	2772.3	2617.9
32.5°	3676.1	3596.2	3386.8	3125.0	2912.8	2843.9	2921.1	3017.5	3020.3	2967.9	2808.1
35°	4792.2	4665.5	4290.7	3926.9	3441.9	3180.1	3202.2	3306.9	3339.9	3312.4	3127.8
37.5°	5866.9	5751.2	5393.0	4888.7	4230.0	3695.4	3601.7	3692.7	3731.3	3731.3	3535.6
40°	6950.0	6814.9	6498.0	5991.0	5296.5	4500.1	4163.9	4238.3	4279.6	4287.9	4031.6
42.5°	7818.0	7729.8	7487.3	7093.2	6442.9	5911.0	4974.1	4932.8	4971.3	4941.0	4607.6
45°	8418.8	8349.9	8181.8	8033.0	7716.0	7448.7	6057.1	5778.8	5803.6	5698.8	5255.2
47.5°	8542.8	8465.6	8429.8	8636.5	8862.4	8928.6	7388.1	6784.6	6759.8	6528.3	5927.6
50°	8002.6	8010.9	8143.2	8732.9	9675.4	10270.6	8931.3	7920.0	7829.0	7313.7	6553.1
52.5°	6837.0	6969.2	7302.7	8258.9	9923.4	11246.1	10474.5	9124.2	8983.7	8077.0	7021.6
55°	5348.9	5519.7	6068.1	7167.7	9405.3	11681.5	11775.2	10375.3	10055.7	8650.2	7385.4
57.5°	3976.5	4028.9	4668.2	5671.3	8179.0	11254.4	12442.1	11339.8	10929.2	9107.7	7746.4
60°	2477.4	2510.5	3185.6	4318.2	6194.9	9675.4	12442.1	12004.0	11612.6	9518.3	8077.0
62.5°	1540.5	1551.5	1805.0	2959.7	4210.8	7175.9	11926.8	12519.3	12205.1	9813.2	8360.9
65°	887.3	898.4	1016.9	1672.7	2739.2	4296.2	10609.6	12670.8	12530.3	10047.4	8581.3
67.5°	647.6	653.1	700.0	939.7	1791.2	2207.3	7969.6	12061.8	12238.2	10163.1	8575.8
70°	562.2	570.4	631.1	733.0	1292.4	1355.8	4056.4	10416.7	10909.9	9997.8	8319.5
72.5°	432.6	443.7	534.6	688.9	948.0	975.5	1468.8	7412.9	8159.7	8964.4	7616.8
75°	297.6	308.6	399.6	567.7	782.6	730.3	807.4	3411.6	4304.5	6013.0	5798.1
77.5°	190.1	192.9	250.8	413.4	675.2	518.1	553.9	1113.3	1562.5	2719.9	2736.4
80°	126.8	129.5	154.3	267.3	463.0	479.5	341.7	515.3	564.9	793.7	551.1
82.5°	77.2	77.2	104.7	168.1	281.1	396.8	223.2	270.1	289.4	305.9	143.3
85°	30.3	30.3	63.4	110.2	176.4	184.6	140.5	157.1	165.3	179.1	66.1
87.5°	8.3	8.3	35.8	60.6	77.2	85.4	85.4	77.2	82.7	102.0	33.1
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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2237.7	2229.4	2218.4	2207.3	2196.3	2188.0	2179.8	2179.8	2174.3	2166.0	2160.5
5°	2232.1	2218.4	2193.6	2174.3	2144.0	2121.9	2105.4	2091.6	2083.3	2064.0	2061.3
7.5°	2223.9	2207.3	2171.5	2132.9	2083.3	2044.8	2006.2	1978.6	1951.1	1929.0	1923.5
10°	2210.1	2190.8	2138.4	2083.3	2014.4	1942.8	1851.9	1747.1	1650.7	1595.6	1579.0
12.5°	2210.1	2185.3	2116.4	2042.0	1942.8	1766.4	1534.9	1303.5	1124.3	1044.4	1022.4
15°	2223.9	2190.8	2099.9	1997.9	1813.3	1455.0	1080.2	774.4	578.7	518.1	504.3
17.5°	2237.7	2190.8	2075.1	1937.3	1576.3	1055.4	614.5	407.8	344.5	330.7	330.7
20°	2243.2	2185.3	2042.0	1824.3	1259.4	655.9	366.5	305.9	281.1	272.8	272.8
22.5°	2265.2	2188.0	2017.2	1661.7	914.9	385.8	289.4	256.3	231.5	223.2	223.2
25°	2320.3	2221.1	2022.7	1455.0	587.0	292.1	245.3	212.2	187.4	176.4	176.4
27.5°	2408.5	2295.5	2053.0	1215.3	369.3	250.8	206.7	170.9	151.6	140.5	140.5
30°	2507.7	2378.2	2066.8	939.7	275.6	212.2	168.1	135.0	121.3	113.0	110.2
32.5°	2681.3	2521.5	2055.8	644.8	226.0	179.1	135.0	107.5	96.5	93.7	93.7
35°	2959.7	2772.3	2033.7	405.1	187.4	143.3	107.5	88.2	79.9	77.2	74.4
37.5°	3337.2	3138.8	1967.6	267.3	154.3	113.0	88.2	74.4	66.1	63.4	63.4
40°	3797.4	3557.6	1840.8	203.9	132.3	90.9	74.4	63.4	57.9	55.1	55.1
42.5°	4323.7	4023.4	1639.7	176.4	110.2	77.2	63.4	52.4	49.6	46.8	46.8
45°	4899.7	4511.1	1361.3	157.1	93.7	63.4	52.4	46.8	41.3	41.3	38.6
47.5°	5511.5	5001.6	1047.2	137.8	79.9	55.1	46.8	38.6	35.8	33.1	33.1
50°	6101.2	5439.8	735.8	118.5	66.1	46.8	38.6	33.1	30.3	27.6	27.6
52.5°	6517.3	5704.4	520.8	102.0	55.1	41.3	30.3	24.8	22.0	22.0	22.0
55°	6850.7	5869.7	363.8	85.4	46.8	35.8	24.8	19.3	19.3	16.5	16.5
57.5°	7164.9	5977.2	267.3	71.6	38.6	27.6	19.3	13.8	13.8	11.0	11.0
60°	7490.1	6035.0	203.9	57.9	33.1	22.0	13.8	11.0	8.3	8.3	8.3
62.5°	7818.0	6070.9	157.1	46.8	27.6	16.5	11.0	8.3	5.5	2.8	2.8
65°	8104.6	6081.9	121.3	35.8	22.0	11.0	8.3	2.8	0.0	0.0	0.0
67.5°	8190.0	5955.1	93.7	27.6	16.5	8.3	5.5	0.0	0.0	0.0	0.0
70°	7958.5	5618.9	71.6	22.0	13.8	5.5	2.8	0.0	0.0	0.0	0.0
72.5°	7062.9	4712.3	55.1	13.8	11.0	5.5	2.8	0.0	0.0	0.0	0.0
75°	5054.0	2513.2	38.6	11.0	8.3	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	2325.8	972.8	27.6	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
80°	454.7	242.5	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	104.7	41.3	5.5	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.8	13.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	5.5	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)