

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: P400119

Luminaire Tested: **ARCH-L-PA3-240-722-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-240-722-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19244 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

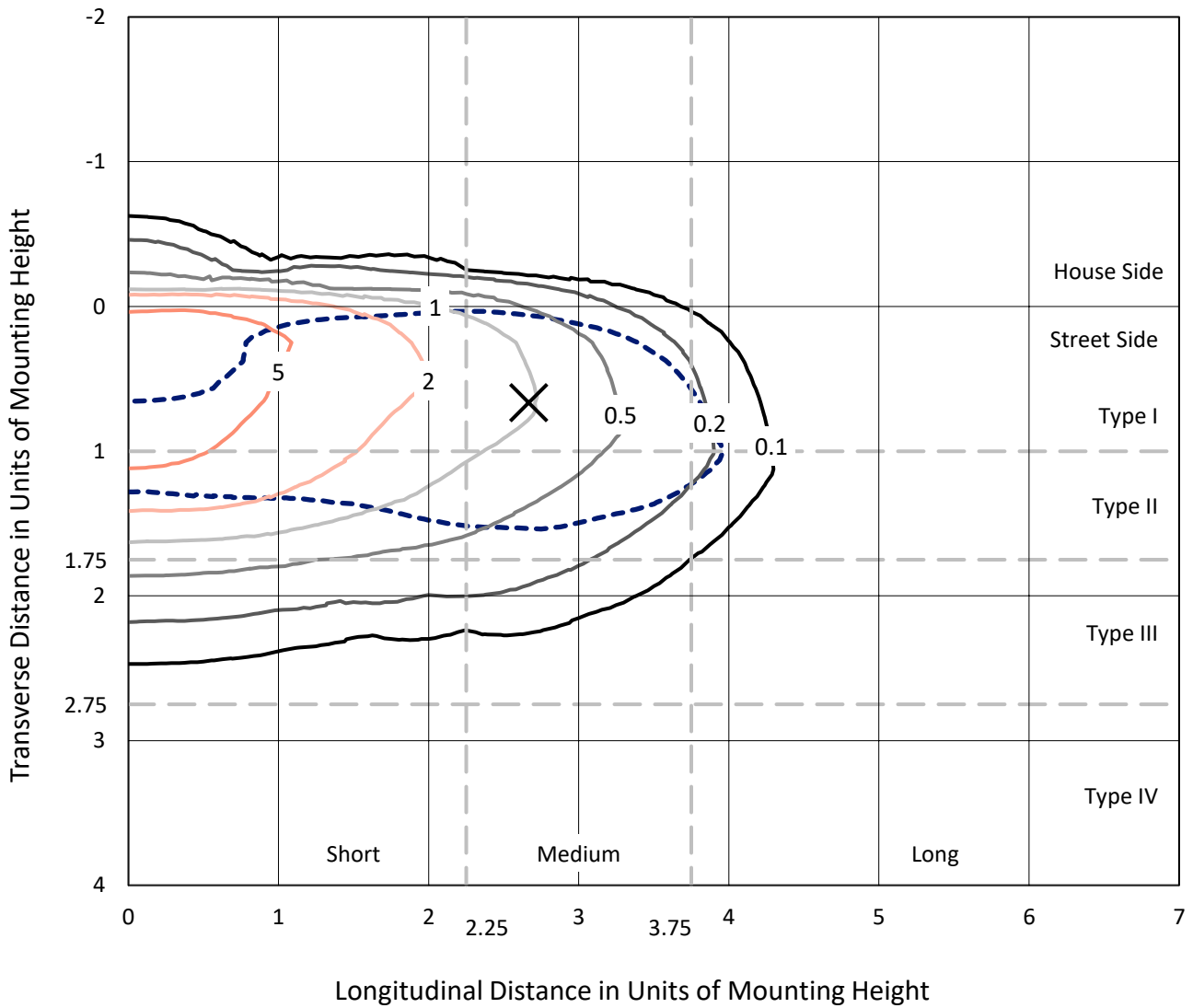
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

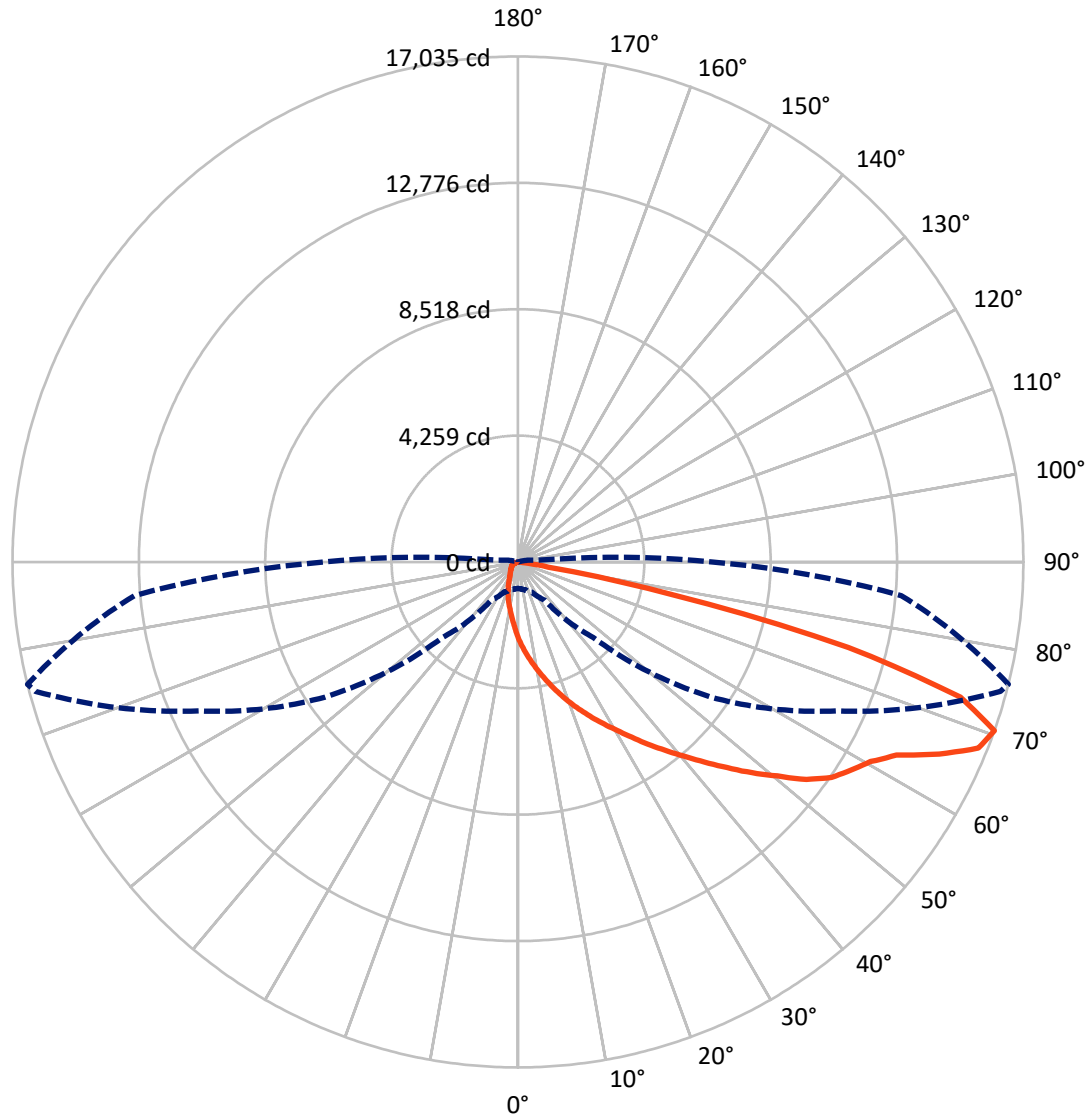
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	907.6	0.0	907.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	18336.4	0.0	18336.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	19244.0	0.0	19244.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.7	1.3
10°-20°	783.2	4.1
20°-30°	1458.6	7.6
30°-40°	2580.0	13.4
40°-50°	3945.5	20.5
50°-60°	4473.2	23.2
60°-70°	3834.6	19.9
70°-80°	1857.3	9.7
80°-90°	68.9	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°	19244.0	100.0
0°-180°	19244.0	100.0

**Coefficient of Utilization**

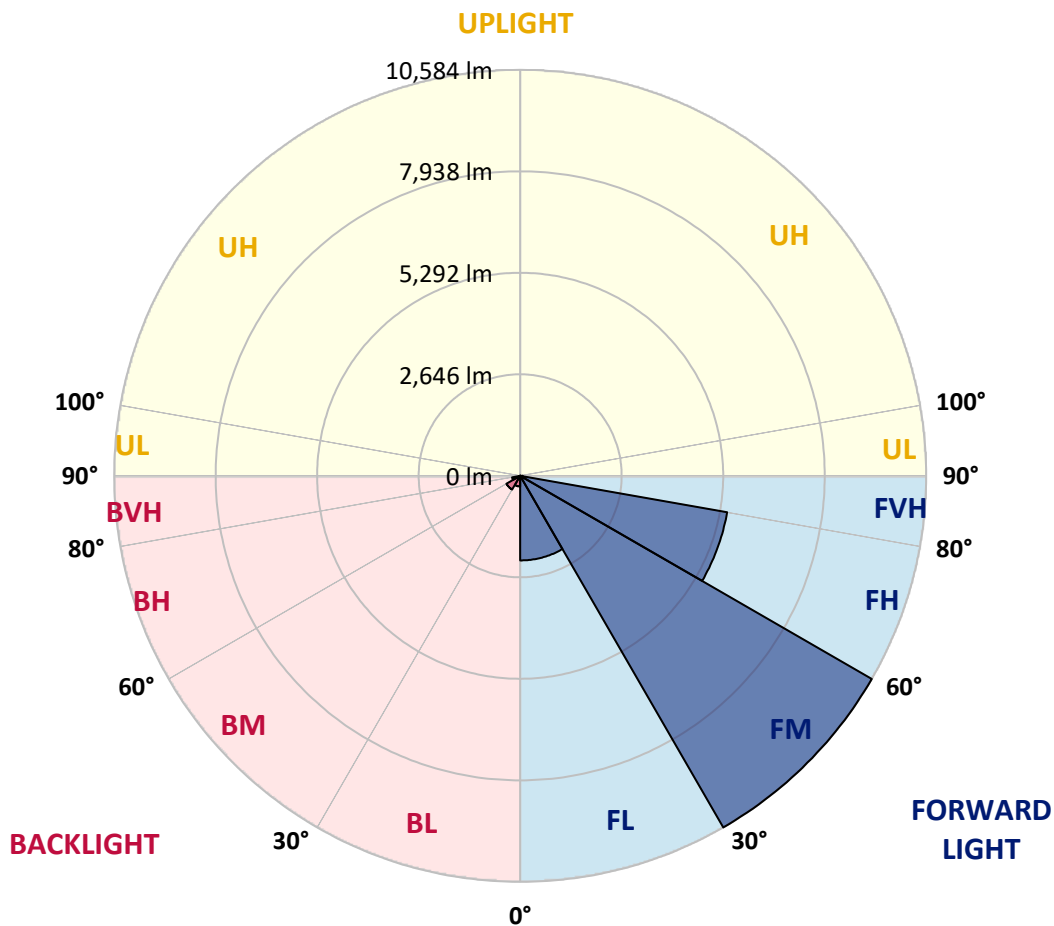


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2206.1	11.5			
FM (30°-60°)	10584.4	55.0			
FH (60°-80°)	5478.2	28.5			G3/7500
FVH (80°-90°)	67.7	0.4			G1/100
BL (0°-30°)	278.4	1.4	B1/500		
BM (30°-60°)	414.3	2.2	B1/1000		
BH (60°-80°)	213.7	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2.5°	3521.1	3501.9	3482.6	3408.9	3341.7	3280.8	3165.4	3014.9	2880.3	2851.5	2694.5
5°	4136.2	4113.8	4085.0	4011.3	3924.8	3822.2	3652.4	3421.8	3184.7	3133.4	2841.9
7.5°	4552.7	4533.5	4491.9	4456.6	4370.1	4270.8	4081.8	3812.6	3485.8	3421.8	3011.7
10°	4837.9	4825.1	4818.7	4789.8	4725.7	4645.7	4456.6	4174.7	3790.2	3716.5	3191.1
12.5°	4940.4	4940.4	4972.4	5020.5	5030.1	5004.5	4831.5	4549.5	4110.6	4033.7	3402.5
15°	4802.6	4818.7	4889.1	5042.9	5203.1	5308.9	5199.9	4937.2	4463.0	4379.7	3652.4
17.5°	4764.2	4780.2	4828.3	4962.8	5177.5	5459.4	5513.9	5312.1	4796.2	4725.7	3908.8
20°	4873.1	4889.1	4930.8	5046.1	5209.5	5494.7	5722.2	5674.1	5148.7	5075.0	4168.3
22.5°	5132.6	5142.3	5142.3	5232.0	5376.1	5587.6	5853.5	6016.9	5510.7	5430.6	4424.6
25°	5690.1	5670.9	5594.0	5549.1	5642.1	5815.1	6020.1	6318.1	5914.4	5805.5	4700.1
27.5°	6420.6	6484.7	6298.9	6084.2	6013.7	6113.0	6254.0	6584.0	6305.3	6189.9	4950.0
30°	7410.6	7385.0	7141.5	6833.9	6529.5	6494.3	6542.4	6811.5	6696.1	6587.2	5228.8
32.5°	8224.4	8272.5	8016.1	7641.3	7186.3	6971.7	6920.4	7083.8	7112.7	7042.2	5558.8
35°	9060.6	9111.9	8862.0	8445.5	7904.0	7545.2	7397.8	7420.2	7628.5	7538.8	5904.8
37.5°	9810.3	9855.2	9608.5	9182.4	8640.9	8202.0	7990.5	7817.5	8128.3	8048.2	6270.0
40°	10380.6	10387.0	10220.4	9839.2	9326.5	8871.6	8631.3	8291.7	8656.9	8602.5	6651.3
42.5°	10784.3	10797.1	10675.4	10348.6	9874.4	9451.5	9256.1	8852.4	9265.7	9217.6	7093.4
45°	10973.3	10995.8	10983.0	10681.8	10287.7	9922.5	9858.4	9448.3	9932.1	9887.2	7602.8
47.5°	10793.9	10793.9	10957.3	10915.7	10553.6	10310.1	10383.8	10069.8	10656.2	10614.5	8121.9
50°	10047.4	10057.0	10390.2	10867.6	10656.2	10601.7	10832.4	10678.6	11313.0	11338.6	8743.4
52.5°	8086.6	8070.6	9195.2	10111.5	10585.7	10733.1	11245.7	11300.1	12101.1	12178.0	9361.8
55°	6042.5	6032.9	7109.4	8772.3	10092.3	10665.8	11476.4	11854.4	12773.9	12822.0	9823.1
57.5°	4783.4	4757.8	5350.5	7071.0	8977.3	10364.6	11486.0	11960.1	13148.8	13232.1	10271.7
60°	3678.1	3655.6	4097.8	5260.8	7397.8	9563.6	11210.4	11966.6	13510.8	13658.2	10874.0
62.5°	2630.4	2656.0	2995.6	3774.2	5690.1	8432.7	10851.6	12056.3	14154.8	14321.4	11729.5
65°	1775.0	1762.1	2044.1	2569.5	4046.5	6910.8	10300.5	12245.3	15314.6	15606.2	12754.7
67.5°	1233.5	1243.1	1371.3	1672.4	2569.5	5305.7	9384.2	12351.0	16512.9	16740.4	13472.4
70°	890.7	903.5	974.0	1124.6	1569.9	3598.0	7932.8	11867.2	16836.5	17035.1	12972.6
72.5°	586.3	611.9	717.7	797.8	1002.8	2252.3	5843.9	10223.6	15442.8	15590.2	10883.6
75°	317.2	323.6	461.4	595.9	714.5	1403.3	3485.8	6894.8	11553.3	11505.2	7176.7
77.5°	246.7	256.3	285.1	426.1	480.6	772.1	1377.7	3114.2	5472.3	5324.9	2447.8
80°	150.6	157.0	198.6	253.1	336.4	448.5	403.7	845.8	1111.8	1041.3	358.8
82.5°	89.7	96.1	118.5	211.5	265.9	211.5	141.0	205.0	208.3	205.0	89.7
85°	16.0	16.0	83.3	147.4	141.0	60.9	83.3	67.3	60.9	64.1	19.2
87.5°	0.0	0.0	32.0	44.9	64.1	22.4	32.0	16.0	16.0	16.0	9.6
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°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2.5°	2598.4	2489.4	2265.2	2069.7	1874.3	1730.1	1621.2	1509.0	1470.6	1422.5	1396.9
5°	2643.2	2428.6	1983.2	1627.6	1326.4	1095.7	948.4	858.6	801.0	759.3	749.7
7.5°	2710.5	2380.5	1755.7	1275.2	945.1	714.5	592.7	531.8	499.8	480.6	474.2
10°	2790.6	2338.8	1531.5	993.2	666.4	503.0	435.7	410.1	397.3	390.9	387.7
12.5°	2902.7	2322.8	1342.4	765.7	503.0	413.3	378.1	362.0	352.4	342.8	339.6
15°	3050.1	2329.2	1169.4	592.7	416.5	368.4	339.6	323.6	310.8	301.2	301.2
17.5°	3203.9	2338.8	999.6	480.6	378.1	336.4	304.4	281.9	272.3	262.7	259.5
20°	3348.1	2335.6	836.2	410.1	342.8	301.2	269.1	246.7	230.7	221.1	221.1
22.5°	3485.8	2316.4	682.4	368.4	314.0	265.9	230.7	208.3	195.4	185.8	185.8
25°	3633.2	2278.0	557.5	336.4	278.7	233.9	198.6	176.2	166.6	157.0	157.0
27.5°	3748.6	2213.9	455.0	307.6	246.7	201.8	169.8	150.6	141.0	134.6	134.6
30°	3873.5	2121.0	378.1	275.5	214.7	173.0	144.2	128.2	118.5	115.3	115.3
32.5°	4011.3	2018.5	323.6	243.5	182.6	147.4	121.7	112.1	102.5	99.3	99.3
35°	4171.5	1928.7	291.6	211.5	160.2	125.0	105.7	96.1	89.7	89.7	89.7
37.5°	4354.1	1835.8	262.7	185.8	137.8	105.7	89.7	86.5	83.3	80.1	80.1
40°	4552.7	1736.5	237.1	163.4	118.5	89.7	76.9	76.9	73.7	73.7	73.7
42.5°	4777.0	1650.0	214.7	144.2	102.5	76.9	67.3	67.3	64.1	64.1	64.1
45°	5020.5	1569.9	195.4	128.2	89.7	67.3	60.9	57.7	54.5	54.5	54.5
47.5°	5308.9	1525.1	179.4	112.1	76.9	57.7	51.3	48.1	44.9	41.7	41.7
50°	5677.3	1544.3	163.4	92.9	67.3	48.1	41.7	38.4	35.2	32.0	32.0
52.5°	5968.9	1534.7	141.0	80.1	54.5	38.4	32.0	28.8	25.6	22.4	22.4
55°	6180.3	1496.2	121.7	67.3	41.7	32.0	25.6	19.2	16.0	16.0	16.0
57.5°	6388.6	1457.8	102.5	54.5	32.0	22.4	16.0	12.8	12.8	12.8	12.8
60°	6712.2	1403.3	89.7	44.9	25.6	16.0	9.6	9.6	6.4	6.4	6.4
62.5°	7106.2	1336.0	73.7	38.4	19.2	12.8	6.4	6.4	0.0	0.0	0.0
65°	7538.8	1217.5	60.9	28.8	16.0	9.6	6.4	0.0	0.0	0.0	0.0
67.5°	7439.4	977.2	51.3	19.2	12.8	6.4	3.2	0.0	0.0	0.0	0.0
70°	6580.8	660.0	41.7	16.0	9.6	6.4	3.2	0.0	0.0	0.0	0.0
72.5°	5155.1	390.9	28.8	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0
75°	3300.0	195.4	19.2	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1105.3	96.1	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	157.0	32.0	6.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.2	12.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	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)