

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: P400236

Luminaire Tested: **ARCH-L-PA3-250-760-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400236  
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-PA3-250-760-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1070mA 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: 26778 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

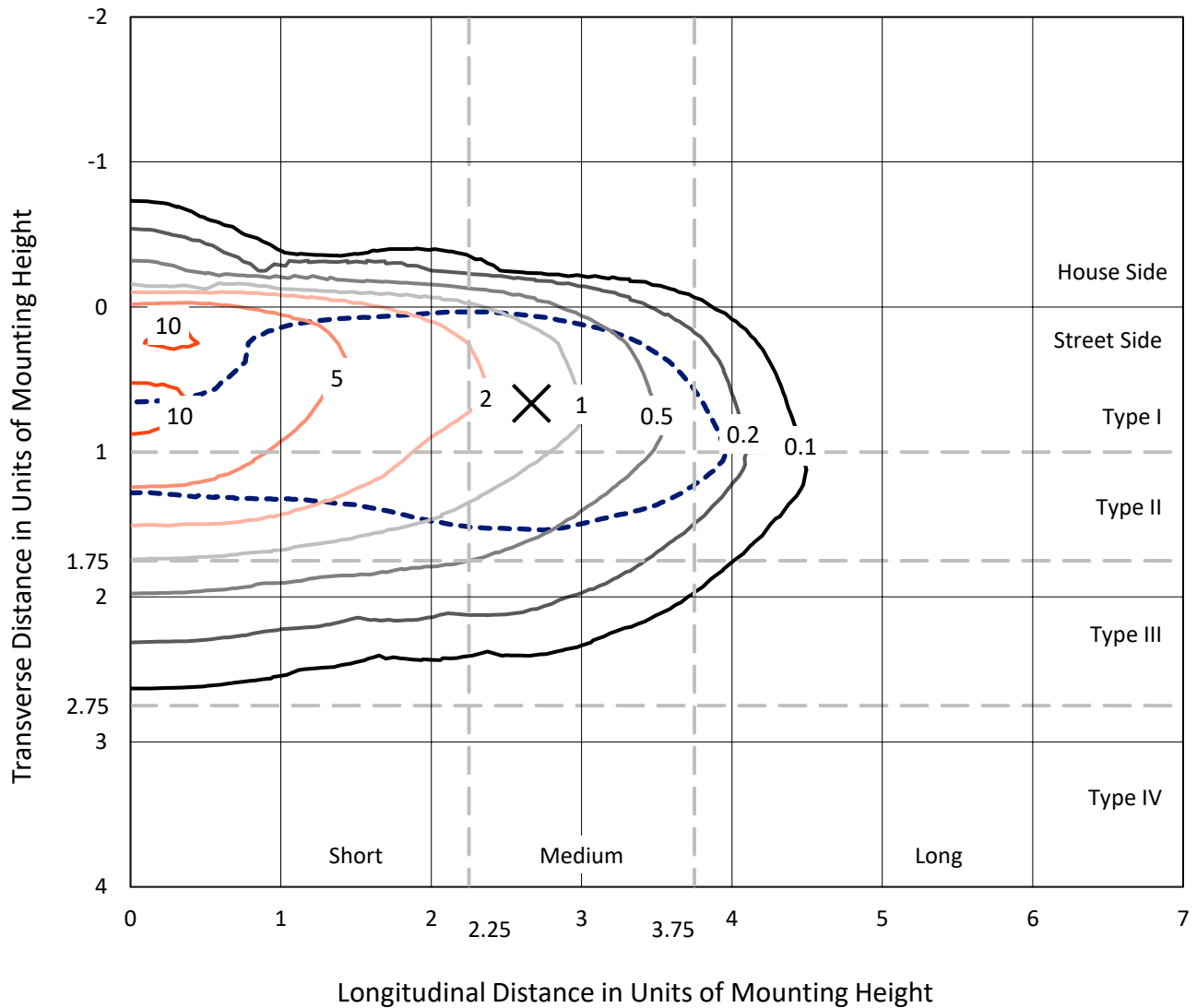
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P400236  
 CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

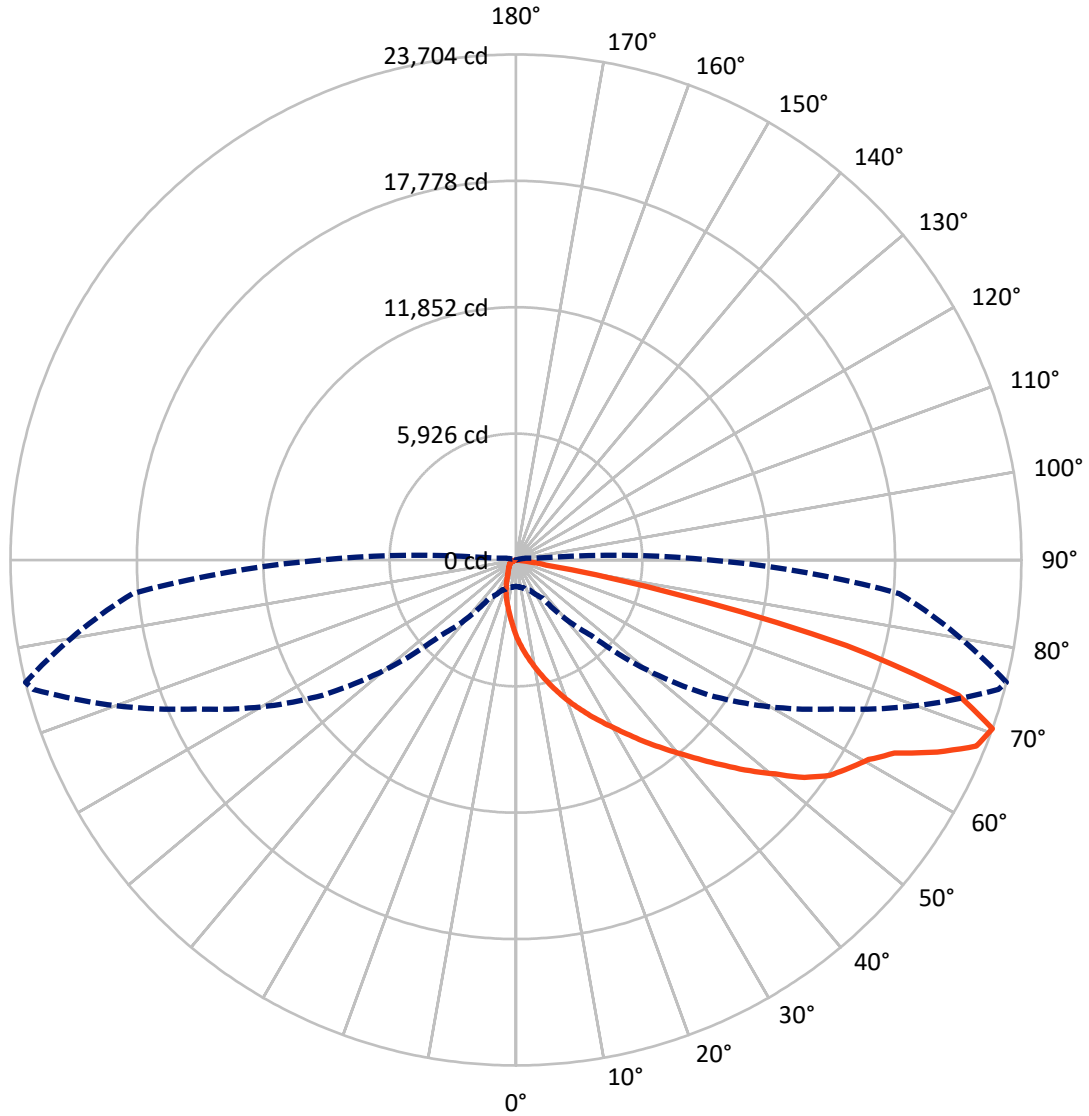
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

REPORT NUMBER: P400236  
CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P400236  
 CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1262.9	0.0	1262.9
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	25515.1	0.0	25515.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	26778.0	0.0	26778.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.7	1.3
10°-20°	1089.8	4.1
20°-30°	2029.7	7.6
30°-40°	3590.1	13.4
40°-50°	5490.1	20.5
50°-60°	6224.4	23.2
60°-70°	5335.9	19.9
70°-80°	2584.4	9.7
80°-90°	95.9	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°	26778.0	100.0
0°-180°	26778.0	100.0

**Coefficient of Utilization**

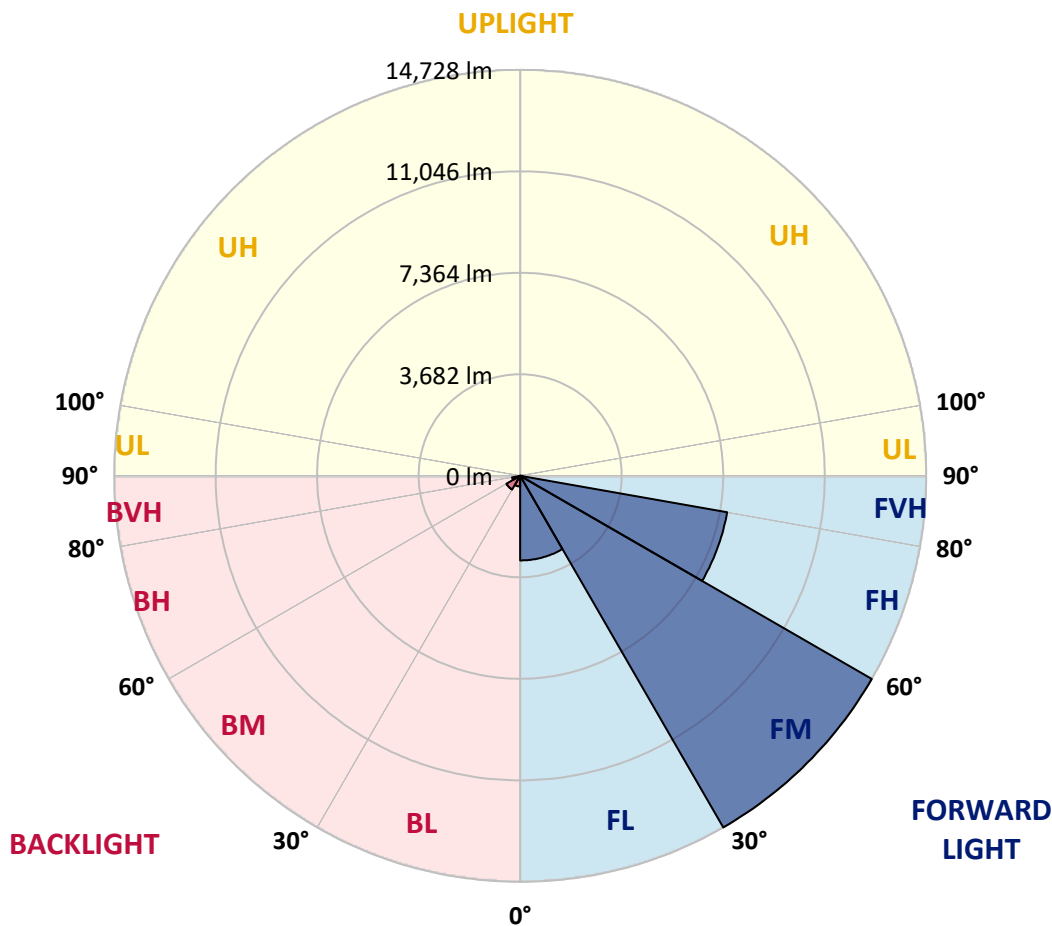


REPORT NUMBER: P400236  
 CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.8	11.5			
FM (30°-60°)	14728.1	55.0			
FH (60°-80°)	7622.9	28.5			G4/12000
FVH (80°-90°)	94.2	0.4			G1/100
BL (0°-30°)	387.4	1.4	B1/500		
BM (30°-60°)	576.5	2.2	B1/1000		
BH (60°-80°)	297.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4**  
 Type II Medium





REPORT NUMBER: P400236

CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
2.5°	4899.6	4872.8	4846.1	4743.5	4649.9	4565.2	4404.7	4195.2	4007.9	3967.8	3749.4
5°	5755.6	5724.4	5684.2	5581.7	5461.3	5318.7	5082.4	4761.4	4431.5	4360.1	3954.4
7.5°	6335.1	6308.4	6250.4	6201.4	6081.0	5942.8	5679.8	5305.3	4850.5	4761.4	4190.7
10°	6731.9	6714.1	6705.2	6665.0	6575.9	6464.4	6201.4	5809.1	5274.1	5171.5	4440.4
12.5°	6874.6	6874.6	6919.2	6986.0	6999.4	6963.7	6723.0	6330.7	5719.9	5612.9	4734.6
15°	6682.9	6705.2	6803.2	7017.2	7240.1	7387.3	7235.7	6870.1	6210.3	6094.4	5082.4
17.5°	6629.4	6651.7	6718.5	6905.8	7204.5	7596.8	7672.6	7391.7	6674.0	6575.9	5439.0
20°	6780.9	6803.2	6861.2	7021.7	7249.1	7645.8	7962.4	7895.5	7164.4	7061.8	5800.1
22.5°	7142.1	7155.4	7155.4	7280.3	7480.9	7775.1	8145.2	8372.5	7668.1	7556.7	6156.8
25°	7917.8	7891.0	7784.0	7721.6	7850.9	8091.7	8377.0	8791.6	8229.9	8078.3	6540.2
27.5°	8934.3	9023.4	8764.9	8466.2	8368.1	8506.3	8702.4	9161.6	8773.8	8613.3	6887.9
30°	10311.9	10276.2	9937.4	9509.4	9085.8	9036.8	9103.7	9478.2	9317.7	9166.1	7275.8
32.5°	11444.2	11511.1	11154.5	10632.8	9999.8	9701.1	9629.8	9857.1	9897.2	9799.2	7735.0
35°	12607.8	12679.2	12331.4	11751.9	10998.4	10499.1	10294.0	10325.2	10615.0	10490.2	8216.5
37.5°	13651.1	13713.5	13370.2	12777.3	12023.8	11413.0	11118.8	10878.1	11310.5	11199.0	8724.7
40°	14444.6	14453.5	14221.7	13691.2	12977.9	12344.8	12010.4	11537.9	12046.1	11970.3	9255.3
42.5°	15006.4	15024.2	14854.8	14400.0	13740.2	13151.7	12879.8	12318.1	12893.2	12826.3	9870.5
45°	15269.4	15300.6	15282.8	14863.7	14315.3	13807.1	13717.9	13147.3	13820.5	13758.1	10579.4
47.5°	15019.7	15019.7	15247.1	15189.1	14685.4	14346.5	14449.1	14012.2	14828.0	14770.1	11301.6
50°	13981.0	13994.3	14458.0	15122.3	14828.0	14752.2	15073.2	14859.2	15742.0	15777.6	12166.5
52.5°	11252.5	11230.3	12795.1	14070.1	14730.0	14935.0	15648.3	15724.1	16838.7	16945.7	13026.9
55°	8408.2	8394.8	9892.8	12206.6	14043.4	14841.4	15969.3	16495.4	17774.9	17841.8	13668.9
57.5°	6656.1	6620.5	7445.2	9839.3	12491.9	14422.3	15982.7	16642.5	18296.5	18412.4	14293.0
60°	5118.0	5086.8	5702.1	7320.4	10294.0	13307.8	15599.3	16651.4	18800.3	19005.4	15131.2
62.5°	3660.2	3695.9	4168.4	5251.8	7917.8	11734.0	15100.0	16776.3	19696.4	19928.2	16321.5
65°	2469.9	2452.0	2844.3	3575.5	5630.7	9616.4	14333.2	17039.3	21310.3	21716.0	17748.2
67.5°	1716.4	1729.8	1908.1	2327.2	3575.5	7382.8	13058.1	17186.4	22977.7	23294.2	18746.8
70°	1239.4	1257.2	1355.3	1564.8	2184.5	5006.6	11038.5	16513.2	23427.9	23704.3	18051.3
72.5°	815.9	851.5	998.6	1110.1	1395.4	3134.1	8131.8	14226.2	21488.6	21693.7	15144.6
75°	441.4	450.3	642.0	829.2	994.2	1952.7	4850.5	9594.1	16076.3	16009.5	9986.4
77.5°	343.3	356.7	396.8	592.9	668.7	1074.4	1917.0	4333.4	7614.6	7409.6	3406.1
80°	209.5	218.5	276.4	352.2	468.1	624.2	561.7	1177.0	1547.0	1448.9	499.3
82.5°	124.8	133.7	165.0	294.2	370.0	294.2	196.2	285.3	289.8	285.3	124.8
85°	22.3	22.3	115.9	205.1	196.2	84.7	115.9	93.6	84.7	89.2	26.7
87.5°	0.0	0.0	44.6	62.4	89.2	31.2	44.6	22.3	22.3	22.3	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400236

CATALOG NUMBER: ARCH-L-PA3-250-760-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
2.5°	3615.6	3464.0	3152.0	2880.0	2608.1	2407.4	2255.9	2099.8	2046.3	1979.4	1943.8
5°	3678.0	3379.3	2759.6	2264.8	1845.7	1524.7	1319.6	1194.8	1114.6	1056.6	1043.2
7.5°	3771.7	3312.5	2443.1	1774.4	1315.2	994.2	824.8	740.1	695.5	668.7	659.8
10°	3883.1	3254.5	2131.0	1382.0	927.3	699.9	606.3	570.7	552.8	543.9	539.4
12.5°	4039.1	3232.2	1868.0	1065.5	699.9	575.1	526.1	503.8	490.4	477.0	472.6
15°	4244.2	3241.1	1627.2	824.8	579.6	512.7	472.6	450.3	432.4	419.1	419.1
17.5°	4458.2	3254.5	1391.0	668.7	526.1	468.1	423.5	392.3	378.9	365.6	361.1
20°	4658.8	3250.0	1163.6	570.7	477.0	419.1	374.5	343.3	321.0	307.6	307.6
22.5°	4850.5	3223.3	949.6	512.7	436.9	370.0	321.0	289.8	272.0	258.6	258.6
25°	5055.6	3169.8	775.7	468.1	387.9	325.4	276.4	245.2	231.8	218.5	218.5
27.5°	5216.1	3080.6	633.1	428.0	343.3	280.9	236.3	209.5	196.2	187.2	187.2
30°	5390.0	2951.3	526.1	383.4	298.7	240.7	200.6	178.3	165.0	160.5	160.5
32.5°	5581.7	2808.7	450.3	338.8	254.1	205.1	169.4	156.0	142.7	138.2	138.2
35°	5804.6	2683.8	405.7	294.2	222.9	173.9	147.1	133.7	124.8	124.8	124.8
37.5°	6058.7	2554.6	365.6	258.6	191.7	147.1	124.8	120.4	115.9	111.5	111.5
40°	6335.1	2416.4	329.9	227.4	165.0	124.8	107.0	107.0	102.5	102.5	102.5
42.5°	6647.2	2296.0	298.7	200.6	142.7	107.0	93.6	93.6	89.2	89.2	89.2
45°	6986.0	2184.5	272.0	178.3	124.8	93.6	84.7	80.2	75.8	75.8	75.8
47.5°	7387.3	2122.1	249.7	156.0	107.0	80.2	71.3	66.9	62.4	58.0	58.0
50°	7900.0	2148.9	227.4	129.3	93.6	66.9	58.0	53.5	49.0	44.6	44.6
52.5°	8305.7	2135.5	196.2	111.5	75.8	53.5	44.6	40.1	35.7	31.2	31.2
55°	8599.9	2082.0	169.4	93.6	58.0	44.6	35.7	26.7	22.3	22.3	22.3
57.5°	8889.7	2028.5	142.7	75.8	44.6	31.2	22.3	17.8	17.8	17.8	17.8
60°	9340.0	1952.7	124.8	62.4	35.7	22.3	13.4	13.4	8.9	8.9	8.9
62.5°	9888.3	1859.1	102.5	53.5	26.7	17.8	8.9	8.9	0.0	0.0	0.0
65°	10490.2	1694.1	84.7	40.1	22.3	13.4	8.9	0.0	0.0	0.0	0.0
67.5°	10352.0	1359.8	71.3	26.7	17.8	8.9	4.5	0.0	0.0	0.0	0.0
70°	9157.2	918.4	58.0	22.3	13.4	8.9	4.5	0.0	0.0	0.0	0.0
72.5°	7173.3	543.9	40.1	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0
75°	4592.0	272.0	26.7	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	1538.1	133.7	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.5	44.6	8.9	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.0	17.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	4.5	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)