

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: P400330

Luminaire Tested: **ARCH-L-PA3-260-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400330
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-PA3-260-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1110mA 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: 19933 lumens
Efficiency: N/A
Efficacy: 76.4 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

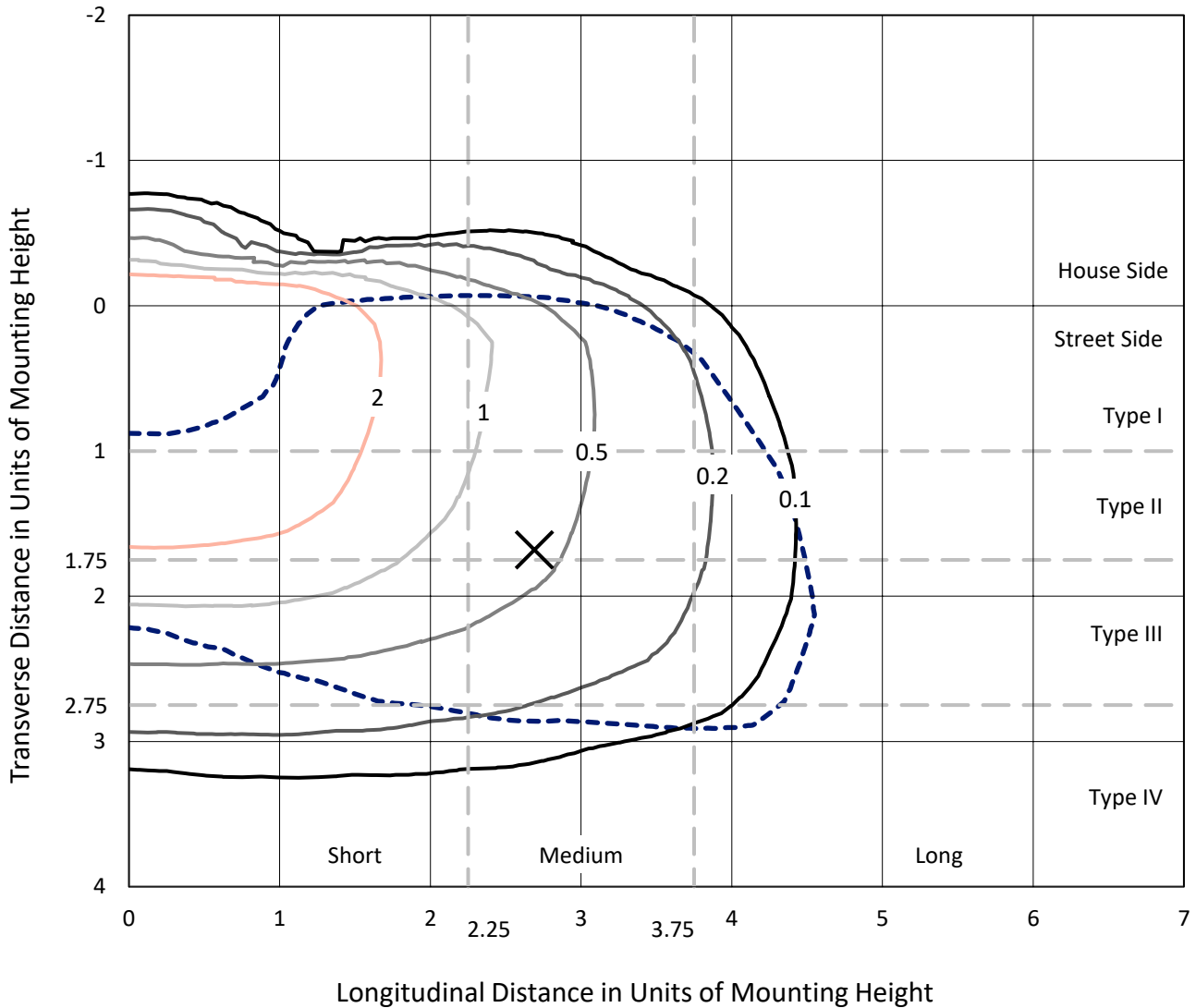
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

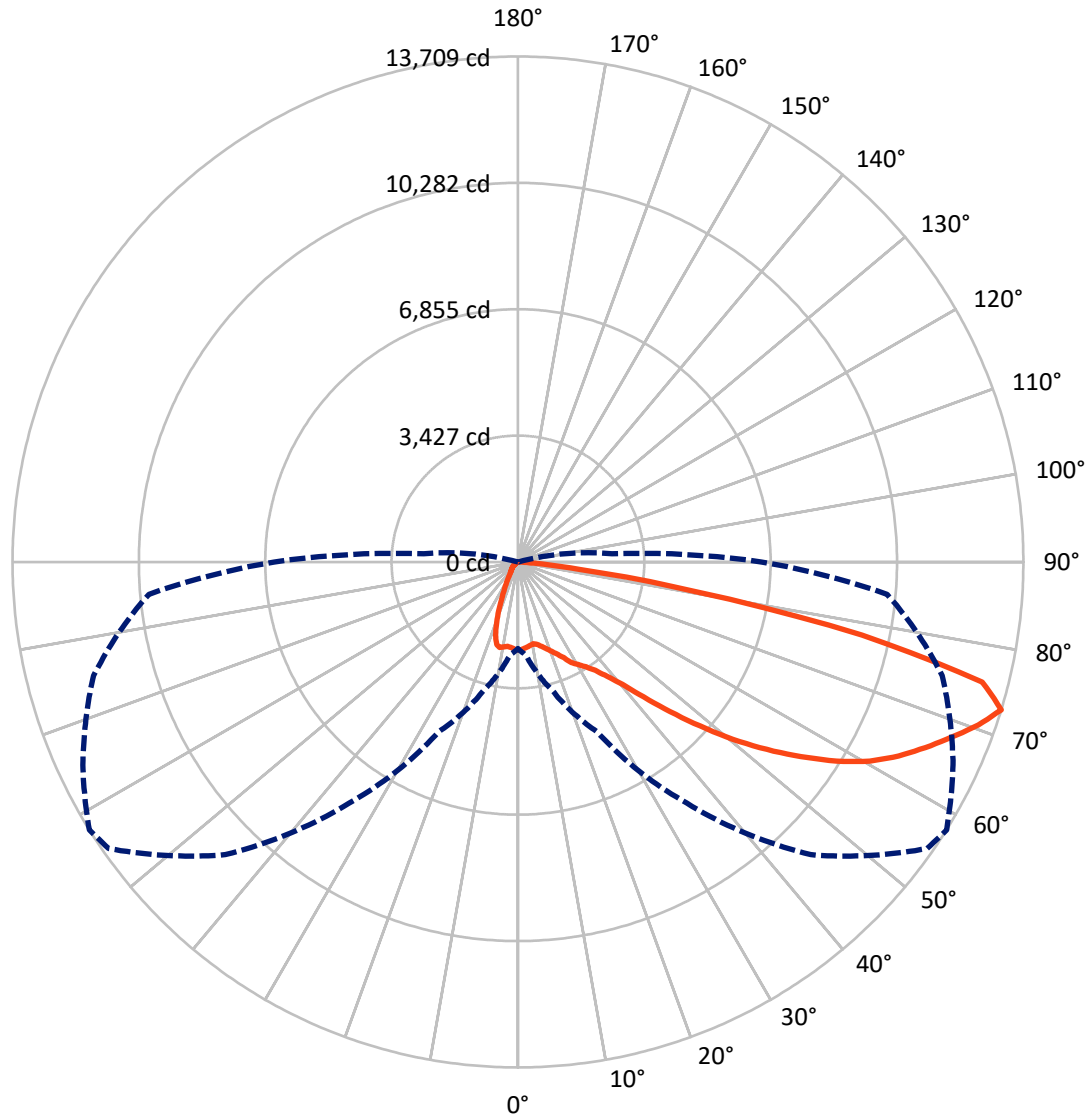
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
House Side	Lumens	1938.4	0.0	1938.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17994.7	0.0	17994.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	19933.0	0.0	19933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.1
10°-20°	571.7	2.9
20°-30°	898.2	4.5
30°-40°	1548.9	7.8
40°-50°	2947.0	14.8
50°-60°	4667.1	23.4
60°-70°	5445.9	27.3
70°-80°	3410.8	17.1
80°-90°	223.9	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°	19933.0	100.0
0°-180°	19933.0	100.0

Coefficient of Utilization



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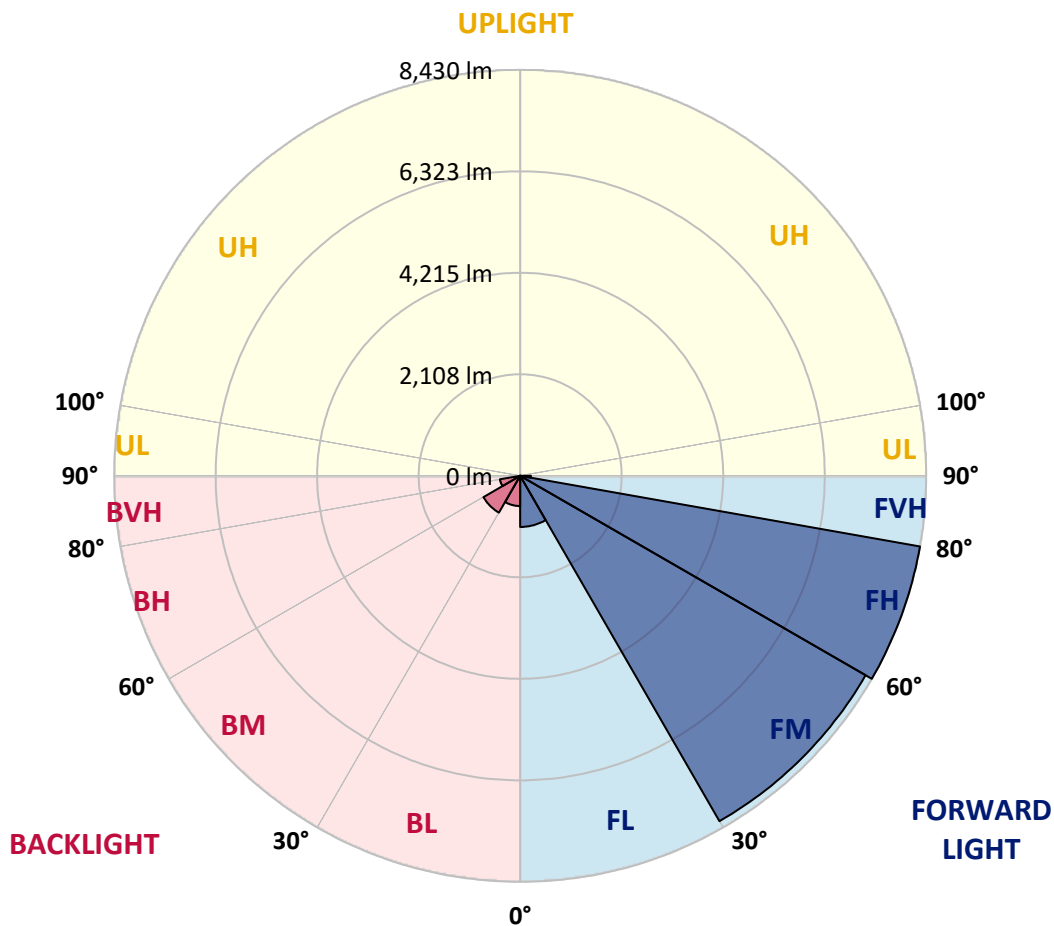
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.7	5.3			
FM (30°-60°)	8281.0	41.5			
FH (60°-80°)	8430.2	42.3			G4/12000
FVH (80°-90°)	221.7	1.1			G2/225
BL (0°-30°)	627.7	3.1	B2/1000		
BM (30°-60°)	882.0	4.4	B1/1000		
BH (60°-80°)	426.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8
2.5°	2381.1	2370.5	2366.9	2363.3	2366.9	2370.5	2359.8	2370.5	2363.3	2366.9	2374.0
5°	2295.6	2284.9	2281.3	2284.9	2295.6	2313.4	2320.5	2331.2	2331.2	2341.9	2345.5
7.5°	2199.4	2192.2	2188.7	2195.8	2217.2	2256.4	2277.8	2292.0	2306.3	2327.7	2349.1
10°	2145.9	2142.3	2138.8	2149.4	2170.8	2206.5	2235.0	2256.4	2309.9	2370.5	2409.7
12.5°	2110.2	2110.2	2117.4	2138.8	2167.3	2195.8	2263.5	2292.0	2374.0	2466.7	2520.2
15°	2081.7	2081.7	2092.4	2131.6	2170.8	2238.6	2338.4	2370.5	2466.7	2580.8	2652.1
17.5°	2060.3	2067.5	2074.6	2113.8	2188.7	2302.7	2420.4	2466.7	2584.3	2709.1	2787.5
20°	2063.9	2071.0	2074.6	2113.8	2220.7	2377.6	2527.3	2580.8	2716.2	2848.1	2926.5
22.5°	2085.3	2096.0	2099.5	2153.0	2277.8	2456.0	2648.5	2709.1	2855.2	2994.3	3054.9
25°	2174.4	2181.5	2160.1	2206.5	2359.8	2577.2	2805.3	2869.5	3015.6	3144.0	3193.9
27.5°	2477.4	2484.5	2366.9	2313.4	2423.9	2677.0	2997.8	3086.9	3268.7	3354.3	3361.4
30°	3133.3	3140.4	2908.7	2655.6	2577.2	2762.6	3104.8	3229.5	3464.8	3561.0	3518.2
32.5°	3978.1	3971.0	3653.7	3279.4	2940.8	2912.3	3258.0	3389.9	3646.6	3739.3	3707.2
35°	4826.5	4837.1	4566.2	4003.0	3518.2	3193.9	3454.1	3607.4	3917.5	4049.4	3992.3
37.5°	5407.5	5478.8	5361.1	4751.6	4227.6	3714.3	3771.3	3935.3	4323.8	4502.1	4380.9
40°	6227.3	6209.5	5924.3	5475.2	5011.8	4484.3	4284.6	4363.1	4808.6	5047.5	4858.5
42.5°	7328.8	7293.1	6808.4	6369.9	5853.1	5421.7	5015.4	5001.1	5364.7	5642.7	5368.3
45°	8326.9	8273.4	7941.9	7517.7	6950.9	6455.5	5906.5	5781.8	6034.8	6270.1	5949.3
47.5°	9121.8	9032.7	8797.4	8572.8	8433.8	7663.9	6840.4	6651.5	6779.8	6954.5	6501.8
50°	10062.8	9816.9	9474.7	9339.2	9628.0	9032.7	7738.7	7556.9	7549.8	7649.6	7072.1
52.5°	10490.6	10045.0	9852.5	9966.6	10476.3	10305.2	8708.3	8448.1	8344.7	8355.4	7603.3
55°	9973.7	9923.8	10027.2	10383.6	11050.2	10950.4	9638.6	9317.8	9164.6	8972.1	8113.0
57.5°	9385.6	9538.8	9948.8	10629.6	11777.4	11624.1	10554.7	10191.2	9909.6	9467.5	8679.8
60°	8843.7	9000.6	9677.9	10686.6	12176.6	12272.9	11317.6	10971.8	10554.7	9973.7	9303.6
62.5°	8020.3	8141.5	9093.3	10604.6	12002.0	12650.7	11848.7	11588.5	11199.9	10454.9	10020.1
65°	7093.5	7172.0	8113.0	9948.8	11659.8	12607.9	12287.1	12141.0	11763.1	10957.5	10729.4
67.5°	6077.6	6170.3	6954.5	8768.9	10989.6	12408.3	12700.6	12686.4	12255.1	11513.6	11242.7
70°	4908.4	4915.6	5564.3	7271.8	9820.4	12009.1	13213.9	13246.0	12725.6	11930.7	11264.1
72.5°	2349.1	2541.6	3607.4	5076.0	7981.1	11224.9	13549.0	13709.4	13021.4	11916.4	10048.6
75°	538.3	556.1	1051.6	2413.2	4680.3	8615.6	12711.3	13010.7	12301.4	10305.2	7079.3
77.5°	196.1	206.7	295.9	705.8	1800.1	4452.2	9096.8	9535.3	9093.3	6662.2	3347.1
80°	131.9	128.3	153.3	313.7	827.0	1261.9	4651.8	4912.0	4484.3	2274.2	802.0
82.5°	67.7	71.3	106.9	174.7	556.1	438.4	1554.2	1689.6	1390.2	456.3	149.7
85°	32.1	32.1	60.6	110.5	235.3	153.3	345.8	417.1	374.3	199.6	49.9
87.5°	32.1	32.1	57.0	71.3	121.2	64.2	85.6	106.9	99.8	106.9	17.8
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°	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8	2391.8
2.5°	2374.0	2370.5	2366.9	2374.0	2370.5	2377.6	2377.6	2384.7	2384.7	2377.6	2374.0
5°	2341.9	2334.8	2327.7	2327.7	2324.1	2331.2	2352.6	2370.5	2374.0	2363.3	2359.8
7.5°	2345.5	2345.5	2338.4	2324.1	2299.2	2299.2	2299.2	2320.5	2331.2	2324.1	2320.5
10°	2409.7	2413.2	2395.4	2363.3	2320.5	2281.3	2206.5	2096.0	1992.6	1964.1	1953.4
12.5°	2520.2	2523.7	2488.1	2431.0	2341.9	2110.2	1825.1	1561.3	1358.1	1301.1	1290.4
15°	2652.1	2655.6	2591.5	2498.8	2227.9	1689.6	1265.4	966.0	787.8	745.0	741.4
17.5°	2787.5	2780.4	2684.1	2505.9	1889.2	1197.7	770.0	616.7	570.3	559.6	563.2
20°	2919.4	2898.0	2766.1	2374.0	1454.4	784.2	563.2	527.6	516.9	509.7	509.7
22.5°	3040.6	2997.8	2833.8	2113.8	1019.5	563.2	502.6	495.5	481.2	470.5	467.0
25°	3161.8	3101.2	2876.6	1775.2	684.4	491.9	474.1	459.8	442.0	427.8	424.2
27.5°	3307.9	3222.4	2855.2	1347.4	513.3	456.3	442.0	420.6	395.7	374.3	367.2
30°	3447.0	3350.7	2734.0	930.4	438.4	420.6	399.2	367.2	335.1	310.1	303.0
32.5°	3621.6	3511.1	2516.6	609.5	381.4	367.2	345.8	306.6	263.8	235.3	228.1
35°	3871.1	3746.4	2238.6	427.8	335.1	310.1	281.6	238.8	192.5	171.1	167.5
37.5°	4220.5	4052.9	1889.2	345.8	295.9	260.2	217.4	174.7	142.6	124.8	121.2
40°	4648.2	4391.6	1500.7	306.6	263.8	217.4	164.0	124.8	103.4	89.1	89.1
42.5°	5111.6	4708.8	1105.0	281.6	231.7	178.2	121.2	89.1	74.9	67.7	64.2
45°	5589.3	4990.4	745.0	260.2	203.2	135.5	85.6	60.6	49.9	49.9	46.3
47.5°	6084.8	5179.3	481.2	235.3	171.1	99.8	57.0	42.8	35.6	35.6	35.6
50°	6576.7	5279.2	342.2	213.9	139.0	67.7	42.8	32.1	28.5	28.5	28.5
52.5°	6933.1	5215.0	274.5	185.4	106.9	49.9	32.1	25.0	21.4	21.4	21.4
55°	7243.2	5104.5	238.8	160.4	78.4	35.6	25.0	21.4	17.8	17.8	17.8
57.5°	7560.5	4961.9	213.9	135.5	57.0	25.0	17.8	14.3	14.3	14.3	14.3
60°	7849.2	4719.5	185.4	106.9	39.2	17.8	14.3	10.7	10.7	10.7	10.7
62.5°	8130.8	4512.8	160.4	82.0	28.5	14.3	7.1	7.1	3.6	3.6	3.6
65°	8291.2	4234.7	128.3	53.5	17.8	10.7	3.6	3.6	0.0	0.0	0.0
67.5°	8241.3	3903.2	89.1	32.1	10.7	7.1	3.6	0.0	0.0	0.0	0.0
70°	7895.6	3457.7	53.5	17.8	10.7	7.1	3.6	0.0	0.0	0.0	0.0
72.5°	6612.3	2559.4	32.1	14.3	7.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	4416.5	1176.3	17.8	10.7	3.6	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	2021.1	352.9	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	406.4	92.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.6	17.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	3.6	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)