

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: P400474

Luminaire Tested: **ARCH-L-PA3-280-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400474
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-PA3-280-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA 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: 20784 lumens
Efficiency: N/A
Efficacy: 74.5 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

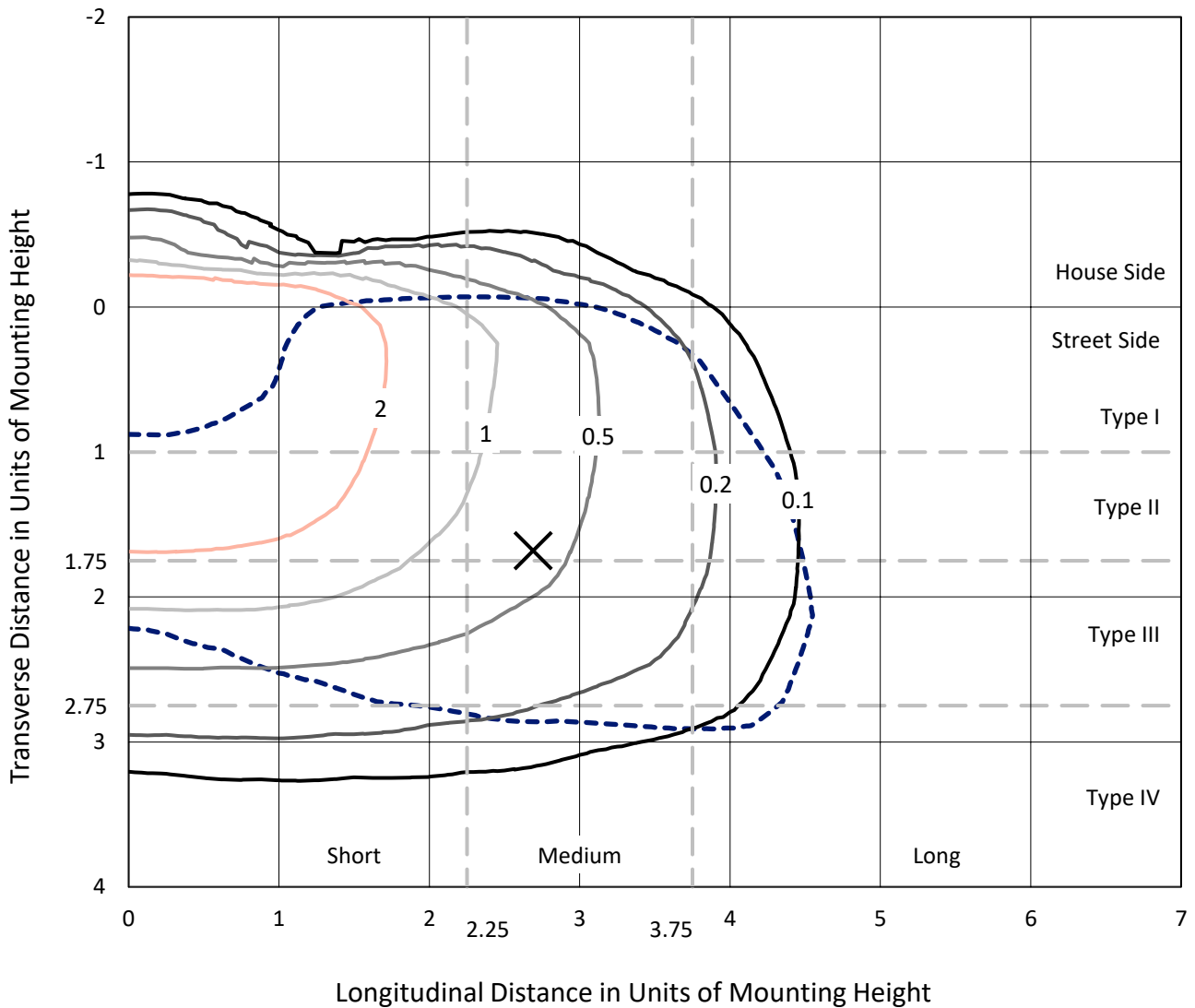
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

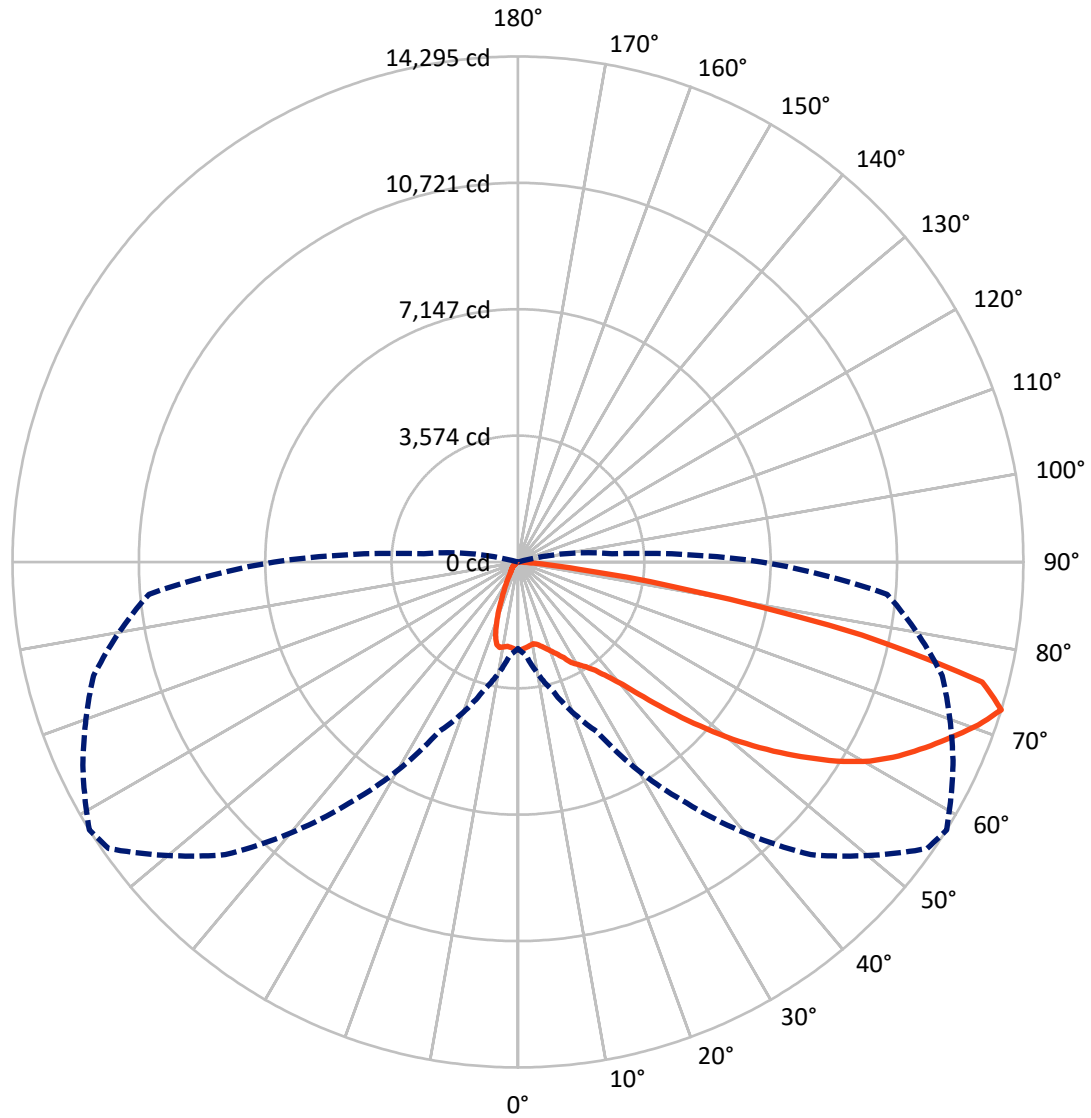
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2021.1	0.0	2021.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18762.9	0.0	18762.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	20784.0	0.0	20784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	1.1
10°-20°	596.1	2.9
20°-30°	936.5	4.5
30°-40°	1615.1	7.8
40°-50°	3072.8	14.8
50°-60°	4866.3	23.4
60°-70°	5678.4	27.3
70°-80°	3556.4	17.1
80°-90°	233.4	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°	20784.0	100.0
0°-180°	20784.0	100.0

Coefficient of Utilization



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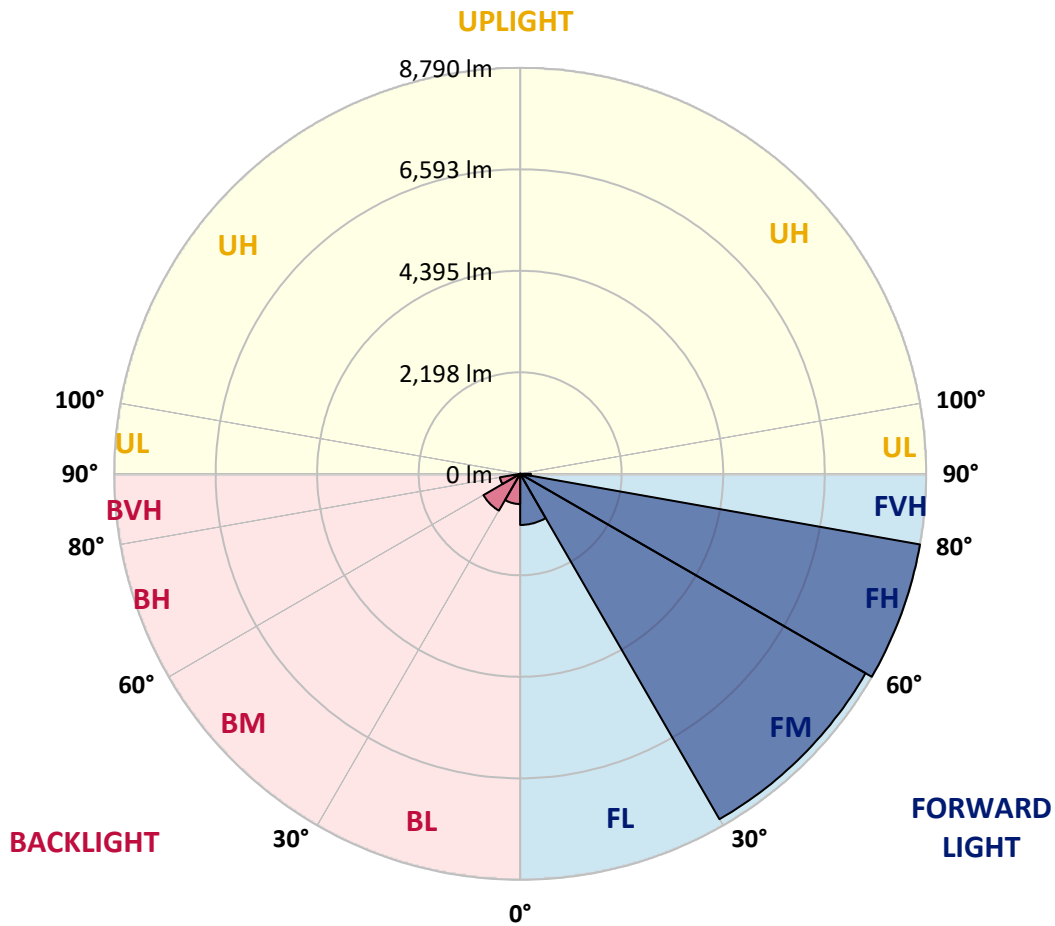
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.0	5.3			
FM (30°-60°)	8634.5	41.5			
FH (60°-80°)	8790.1	42.3			G4/12000
FVH (80°-90°)	231.2	1.1			G3/500
BL (0°-30°)	654.5	3.1	B2/1000		
BM (30°-60°)	919.6	4.4	B1/1000		
BH (60°-80°)	444.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	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°	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0
2.5°	2482.8	2471.7	2467.9	2464.2	2467.9	2471.7	2460.5	2471.7	2464.2	2467.9	2475.4
5°	2393.6	2382.5	2378.7	2382.5	2393.6	2412.2	2419.6	2430.8	2430.8	2441.9	2445.6
7.5°	2293.2	2285.8	2282.1	2289.5	2311.8	2352.7	2375.0	2389.9	2404.8	2427.1	2449.4
10°	2237.5	2233.8	2230.1	2241.2	2263.5	2300.7	2330.4	2352.7	2408.5	2471.7	2512.5
12.5°	2200.3	2200.3	2207.8	2230.1	2259.8	2289.5	2360.1	2389.9	2475.4	2572.0	2627.8
15°	2170.6	2170.6	2181.7	2222.6	2263.5	2334.1	2438.2	2471.7	2572.0	2690.9	2765.3
17.5°	2148.3	2155.7	2163.2	2204.0	2282.1	2401.0	2523.7	2572.0	2694.7	2824.7	2906.5
20°	2152.0	2159.4	2163.2	2204.0	2315.5	2479.1	2635.2	2690.9	2832.2	2969.7	3051.5
22.5°	2174.3	2185.5	2189.2	2244.9	2375.0	2560.9	2761.6	2824.7	2977.1	3122.1	3185.3
25°	2267.2	2274.7	2252.4	2300.7	2460.5	2687.2	2925.1	2992.0	3144.4	3278.2	3330.2
27.5°	2583.2	2590.6	2467.9	2412.2	2527.4	2791.3	3125.8	3218.7	3408.3	3497.5	3504.9
30°	3267.0	3274.5	3032.9	2769.0	2687.2	2880.5	3237.3	3367.4	3612.7	3713.1	3668.5
32.5°	4147.9	4140.5	3809.7	3419.4	3066.3	3036.6	3397.1	3534.6	3802.3	3898.9	3865.4
35°	5032.5	5043.7	4761.2	4173.9	3668.5	3330.2	3601.6	3761.4	4084.7	4222.3	4162.8
37.5°	5638.3	5712.7	5590.0	4954.5	4408.1	3872.9	3932.3	4103.3	4508.4	4694.3	4567.9
40°	6493.2	6474.6	6177.3	5709.0	5225.8	4675.7	4467.6	4549.3	5013.9	5262.9	5066.0
42.5°	7641.7	7604.5	7099.0	6641.9	6102.9	5653.2	5229.5	5214.6	5593.7	5883.6	5597.5
45°	8682.4	8626.6	8281.0	7838.7	7247.7	6731.1	6158.7	6028.6	6292.5	6537.8	6203.3
47.5°	9511.2	9418.3	9173.0	8938.8	8793.9	7991.1	7132.5	6935.5	7069.3	7251.4	6779.4
50°	10492.4	10236.0	9879.2	9737.9	10039.0	9418.3	8069.1	7879.6	7872.1	7976.2	7374.1
52.5°	10938.5	10473.9	10273.2	10392.1	10923.6	10745.2	9080.1	8808.7	8701.0	8712.1	7927.9
55°	10399.5	10347.5	10455.3	10827.0	11522.0	11417.9	10050.1	9715.6	9555.8	9355.1	8459.4
57.5°	9786.3	9946.1	10373.5	11083.4	12280.2	12120.4	11005.4	10626.2	10332.6	9871.7	9050.3
60°	9221.3	9384.8	10091.0	11142.9	12696.5	12796.8	11800.7	11440.2	11005.4	10399.5	9700.8
62.5°	8362.7	8489.1	9481.5	11057.4	12514.4	13190.8	12354.5	12083.2	11678.1	10901.3	10447.8
65°	7396.4	7478.1	8459.4	10373.5	12157.6	13146.2	12811.7	12659.3	12265.3	11425.4	11187.5
67.5°	6337.1	6433.7	7251.4	9143.3	11458.8	12938.1	13242.9	13228.0	12778.3	12005.2	11722.7
70°	5118.0	5125.4	5801.9	7582.2	10239.7	12521.8	13778.1	13811.5	13268.9	12440.0	11745.0
72.5°	2449.4	2650.1	3761.4	5292.7	8321.9	11704.1	14127.4	14294.7	13577.4	12425.2	10477.6
75°	561.2	579.8	1096.4	2516.3	4880.1	8983.4	13254.0	13566.2	12826.6	10745.2	7381.5
77.5°	204.4	215.6	308.5	735.9	1877.0	4642.2	9485.2	9942.4	9481.5	6946.6	3490.0
80°	137.5	133.8	159.8	327.1	862.3	1315.7	4850.4	5121.7	4675.7	2371.3	836.3
82.5°	70.6	74.3	111.5	182.1	579.8	457.2	1620.5	1761.7	1449.5	475.7	156.1
85°	33.5	33.5	63.2	115.2	245.3	159.8	360.5	434.9	390.3	208.1	52.0
87.5°	33.5	33.5	59.5	74.3	126.4	66.9	89.2	111.5	104.1	111.5	18.6
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°	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0	2494.0
2.5°	2475.4	2471.7	2467.9	2475.4	2471.7	2479.1	2479.1	2486.5	2486.5	2479.1	2475.4
5°	2441.9	2434.5	2427.1	2427.1	2423.3	2430.8	2453.1	2471.7	2475.4	2464.2	2460.5
7.5°	2445.6	2445.6	2438.2	2423.3	2397.3	2397.3	2397.3	2419.6	2430.8	2423.3	2419.6
10°	2512.5	2516.3	2497.7	2464.2	2419.6	2378.7	2300.7	2185.5	2077.7	2047.9	2036.8
12.5°	2627.8	2631.5	2594.3	2534.8	2441.9	2200.3	1903.0	1627.9	1416.1	1356.6	1345.5
15°	2765.3	2769.0	2702.1	2605.5	2323.0	1761.7	1319.5	1007.2	821.4	776.8	773.1
17.5°	2906.5	2899.1	2798.7	2612.9	1969.9	1248.8	802.8	643.0	594.7	583.5	587.2
20°	3044.0	3021.7	2884.2	2475.4	1516.4	817.7	587.2	550.1	538.9	531.5	531.5
22.5°	3170.4	3125.8	2954.8	2204.0	1063.0	587.2	524.1	516.6	501.8	490.6	486.9
25°	3296.8	3233.6	2999.4	1851.0	713.6	512.9	494.3	479.5	460.9	446.0	442.3
27.5°	3449.2	3360.0	2977.1	1404.9	535.2	475.7	460.9	438.6	412.6	390.3	382.8
30°	3594.1	3493.8	2850.8	970.1	457.2	438.6	416.3	382.8	349.4	323.4	315.9
32.5°	3776.2	3661.0	2624.0	635.6	397.7	382.8	360.5	319.6	275.0	245.3	237.9
35°	4036.4	3906.3	2334.1	446.0	349.4	323.4	293.6	249.0	200.7	178.4	174.7
37.5°	4400.7	4226.0	1969.9	360.5	308.5	271.3	226.7	182.1	148.7	130.1	126.4
40°	4846.7	4579.1	1564.8	319.6	275.0	226.7	171.0	130.1	107.8	92.9	92.9
42.5°	5329.8	4909.9	1152.2	293.6	241.6	185.8	126.4	92.9	78.1	70.6	66.9
45°	5827.9	5203.5	776.8	271.3	211.9	141.2	89.2	63.2	52.0	52.0	48.3
47.5°	6344.5	5400.5	501.8	245.3	178.4	104.1	59.5	44.6	37.2	37.2	37.2
50°	6857.4	5504.5	356.8	223.0	145.0	70.6	44.6	33.5	29.7	29.7	29.7
52.5°	7229.1	5437.6	286.2	193.3	111.5	52.0	33.5	26.0	22.3	22.3	22.3
55°	7552.5	5322.4	249.0	167.3	81.8	37.2	26.0	22.3	18.6	18.6	18.6
57.5°	7883.3	5173.7	223.0	141.2	59.5	26.0	18.6	14.9	14.9	14.9	14.9
60°	8184.3	4921.0	193.3	111.5	40.9	18.6	14.9	11.2	11.2	11.2	11.2
62.5°	8478.0	4705.4	167.3	85.5	29.7	14.9	7.4	7.4	3.7	3.7	3.7
65°	8645.2	4415.5	133.8	55.8	18.6	11.2	3.7	3.7	0.0	0.0	0.0
67.5°	8593.2	4069.9	92.9	33.5	11.2	7.4	3.7	0.0	0.0	0.0	0.0
70°	8232.6	3605.3	55.8	18.6	11.2	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	6894.6	2668.6	33.5	14.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0
75°	4605.1	1226.5	18.6	11.2	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	2107.4	368.0	11.2	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	423.7	96.6	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.2	18.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.7	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)