

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: P400177

Luminaire Tested: **ARCH-L-PA3-240-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400177
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-PA3-240-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1030mA 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: 17609 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

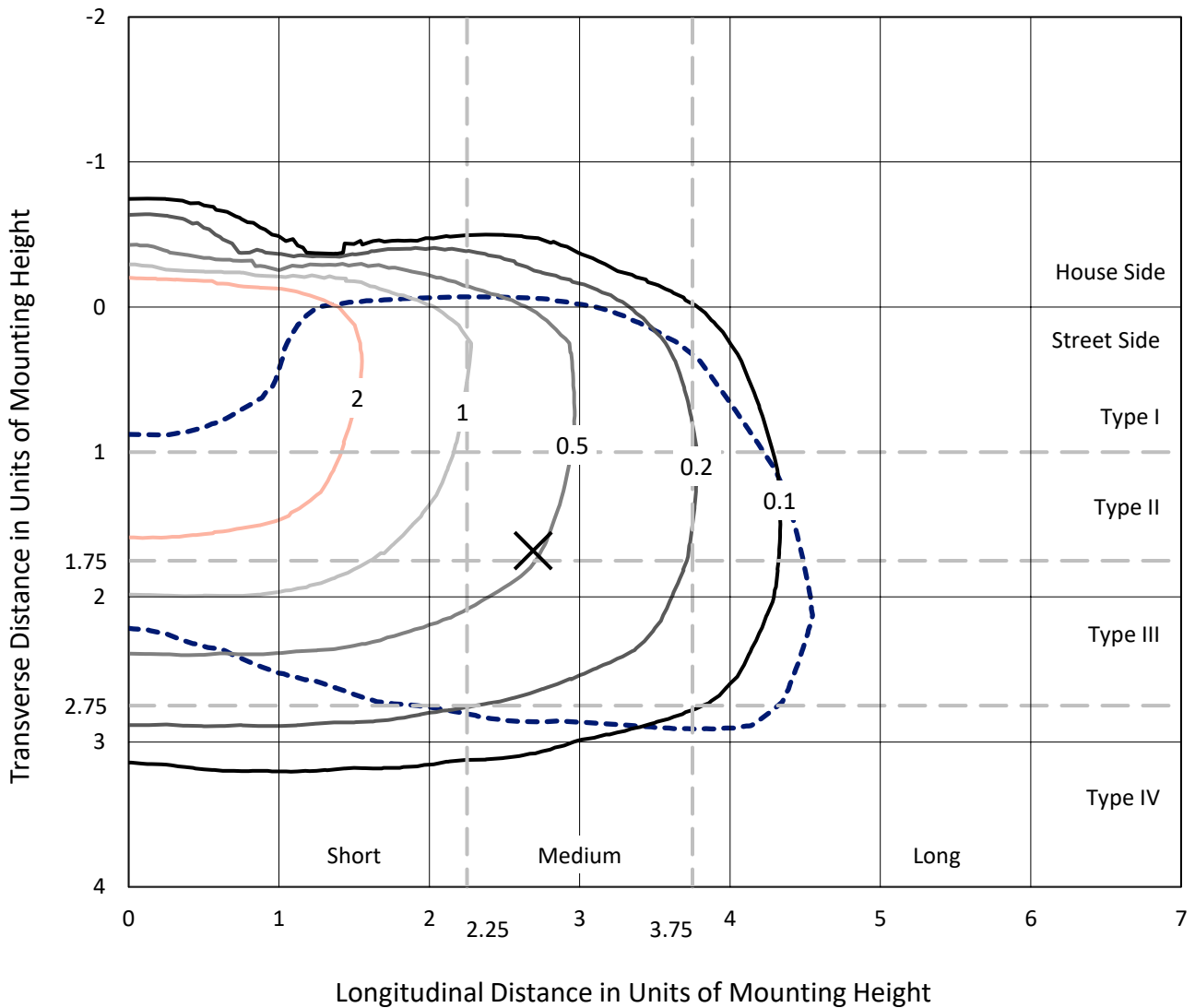
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

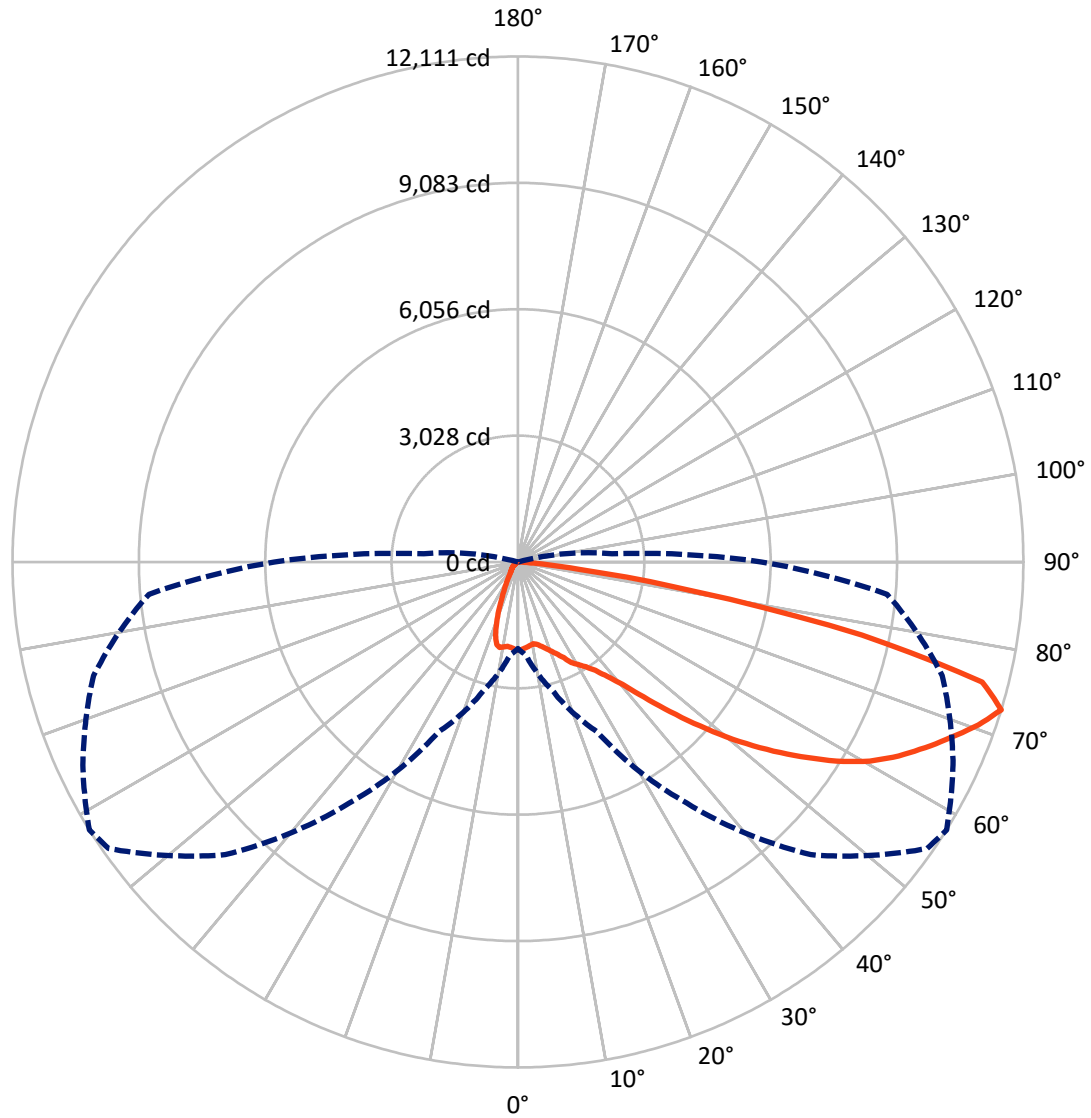
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-240-827-U-T3-HSS

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	1712.3	0.0	1712.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15896.7	0.0	15896.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	17609.0	0.0	17609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.1
10°-20°	505.1	2.9
20°-30°	793.4	4.5
30°-40°	1368.4	7.8
40°-50°	2603.4	14.8
50°-60°	4122.9	23.4
60°-70°	4811.0	27.3
70°-80°	3013.1	17.1
80°-90°	197.8	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°	17609.0	100.0
0°-180°	17609.0	100.0

Coefficient of Utilization



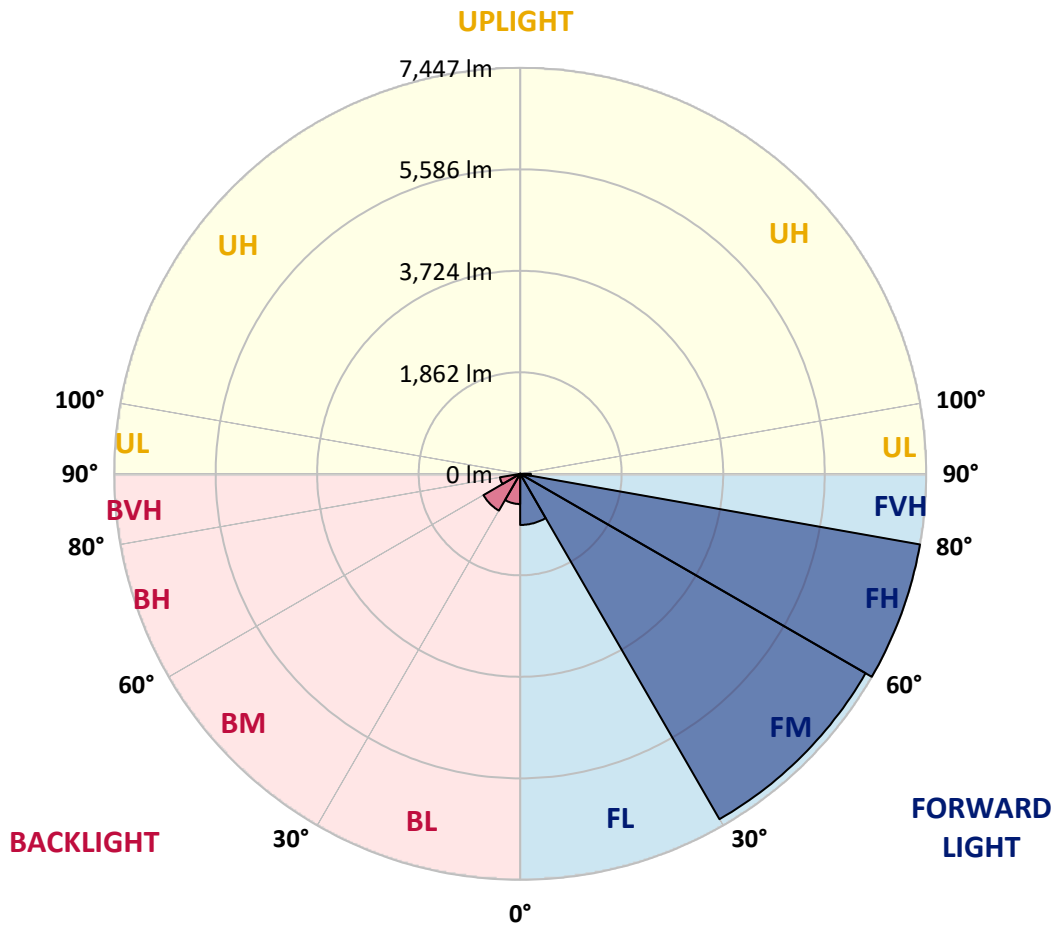
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.9	5.3			
FM (30°-60°)	7315.5	41.5			
FH (60°-80°)	7447.3	42.3			G3/7500
FVH (80°-90°)	195.9	1.1			G2/225
BL (0°-30°)	554.5	3.1	B2/1000		
BM (30°-60°)	779.1	4.4	B1/1000		
BH (60°-80°)	376.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type IV Medium





REPORT NUMBER: P400177

CATALOG NUMBER: ARCH-L-PA3-240-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0
2.5°	2103.5	2094.1	2090.9	2087.8	2090.9	2094.1	2084.6	2094.1	2087.8	2090.9	2097.2
5°	2027.9	2018.5	2015.4	2018.5	2027.9	2043.7	2050.0	2059.4	2059.4	2068.9	2072.0
7.5°	1942.9	1936.6	1933.5	1939.8	1958.7	1993.3	2012.2	2024.8	2037.4	2056.3	2075.2
10°	1895.7	1892.5	1889.4	1898.8	1917.7	1949.2	1974.4	1993.3	2040.5	2094.1	2128.7
12.5°	1864.2	1864.2	1870.5	1889.4	1914.6	1939.8	1999.6	2024.8	2097.2	2179.1	2226.3
15°	1839.0	1839.0	1848.5	1883.1	1917.7	1977.6	2065.7	2094.1	2179.1	2279.9	2342.8
17.5°	1820.1	1826.4	1832.7	1867.4	1933.5	2034.2	2138.2	2179.1	2283.0	2393.2	2462.5
20°	1823.3	1829.6	1832.7	1867.4	1961.8	2100.4	2232.6	2279.9	2399.5	2516.0	2585.3
22.5°	1842.2	1851.6	1854.8	1902.0	2012.2	2169.7	2339.7	2393.2	2522.3	2645.2	2698.7
25°	1920.9	1927.2	1908.3	1949.2	2084.6	2276.7	2478.3	2534.9	2664.0	2777.4	2821.5
27.5°	2188.5	2194.8	2090.9	2043.7	2141.3	2364.9	2648.3	2727.0	2887.6	2963.2	2969.5
30°	2768.0	2774.3	2569.6	2346.0	2276.7	2440.5	2742.8	2853.0	3060.8	3145.8	3108.1
32.5°	3514.3	3508.0	3227.7	2897.1	2597.9	2572.7	2878.2	2994.7	3221.4	3303.3	3275.0
35°	4263.7	4273.2	4033.9	3536.3	3108.1	2821.5	3051.4	3186.8	3460.7	3577.3	3526.9
37.5°	4777.0	4840.0	4736.1	4197.6	3734.7	3281.2	3331.6	3476.5	3819.7	3977.2	3870.1
40°	5501.3	5485.5	5233.6	4836.8	4427.5	3961.4	3785.1	3854.4	4248.0	4459.0	4292.1
42.5°	6474.3	6442.8	6014.6	5627.2	5170.6	4789.6	4430.6	4418.0	4739.2	4984.9	4742.4
45°	7356.0	7308.8	7016.0	6641.2	6140.5	5702.8	5217.9	5107.7	5331.2	5539.1	5255.7
47.5°	8058.3	7979.5	7771.7	7573.3	7450.5	6770.3	6042.9	5876.0	5989.4	6143.7	5743.8
50°	8889.6	8672.3	8370.0	8250.4	8505.4	7979.5	6836.5	6675.9	6669.6	6757.7	6247.6
52.5°	9267.5	8873.9	8703.8	8804.6	9254.9	9103.7	7693.0	7463.1	7371.8	7381.2	6716.8
55°	8810.9	8766.8	8858.1	9173.0	9761.9	9673.7	8514.9	8231.5	8096.1	7926.0	7167.1
57.5°	8291.3	8426.7	8788.8	9390.3	10404.3	10268.9	9324.2	9003.0	8754.2	8363.7	7667.8
60°	7812.6	7951.2	8549.5	9440.7	10757.0	10842.0	9998.0	9692.6	9324.2	8810.9	8218.9
62.5°	7085.2	7192.3	8033.1	9368.2	10602.7	11175.8	10467.2	10237.4	9894.1	9236.0	8851.8
65°	6266.5	6335.8	7167.1	8788.8	10300.3	11138.0	10854.6	10725.5	10391.7	9680.0	9478.5
67.5°	5369.0	5450.9	6143.7	7746.5	9708.3	10961.6	11219.9	11207.3	10826.2	10171.2	9931.9
70°	4336.2	4342.5	4915.6	6423.9	8675.5	10608.9	11673.3	11701.6	11241.9	10539.7	9950.8
72.5°	2075.2	2245.2	3186.8	4484.2	7050.6	9916.2	11969.3	12111.0	11503.3	10527.1	8877.0
75°	475.5	491.2	929.0	2131.9	4134.6	7611.1	11229.3	11493.8	10867.2	9103.7	6253.9
77.5°	173.2	182.6	261.4	623.5	1590.2	3933.1	8036.2	8423.5	8033.1	5885.5	2956.9
80°	116.5	113.4	135.4	277.1	730.6	1114.7	4109.4	4339.3	3961.4	2009.1	708.5
82.5°	59.8	63.0	94.5	154.3	491.2	387.3	1373.0	1492.6	1228.1	403.1	132.3
85°	28.3	28.3	53.5	97.6	207.8	135.4	305.5	368.4	330.6	176.3	44.1
87.5°	28.3	28.3	50.4	63.0	107.1	56.7	75.6	94.5	88.2	94.5	15.7
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: P400177
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0	2113.0
2.5°	2097.2	2094.1	2090.9	2097.2	2094.1	2100.4	2100.4	2106.7	2106.7	2100.4	2097.2
5°	2068.9	2062.6	2056.3	2056.3	2053.1	2059.4	2078.3	2094.1	2097.2	2087.8	2084.6
7.5°	2072.0	2072.0	2065.7	2053.1	2031.1	2031.1	2031.1	2050.0	2059.4	2053.1	2050.0
10°	2128.7	2131.9	2116.1	2087.8	2050.0	2015.4	1949.2	1851.6	1760.3	1735.1	1725.6
12.5°	2226.3	2229.5	2198.0	2147.6	2068.9	1864.2	1612.3	1379.3	1199.8	1149.4	1139.9
15°	2342.8	2346.0	2289.3	2207.4	1968.1	1492.6	1117.9	853.4	695.9	658.1	655.0
17.5°	2462.5	2456.2	2371.2	2213.7	1669.0	1058.1	680.2	544.8	503.8	494.4	497.5
20°	2579.0	2560.1	2443.6	2097.2	1284.8	692.8	497.5	466.1	456.6	450.3	450.3
22.5°	2686.1	2648.3	2503.4	1867.4	900.6	497.5	444.0	437.7	425.1	415.7	412.5
25°	2793.2	2739.6	2541.2	1568.2	604.6	434.6	418.8	406.2	390.5	377.9	374.7
27.5°	2922.3	2846.7	2522.3	1190.3	453.5	403.1	390.5	371.6	349.5	330.6	324.3
30°	3045.1	2960.1	2415.3	821.9	387.3	371.6	352.7	324.3	296.0	274.0	267.7
32.5°	3199.4	3101.8	2223.2	538.5	336.9	324.3	305.5	270.8	233.0	207.8	201.5
35°	3419.8	3309.6	1977.6	377.9	296.0	274.0	248.8	211.0	170.0	151.2	148.0
37.5°	3728.4	3580.4	1669.0	305.5	261.4	229.9	192.1	154.3	126.0	110.2	107.1
40°	4106.3	3879.6	1325.7	270.8	233.0	192.1	144.9	110.2	91.3	78.7	78.7
42.5°	4515.7	4159.8	976.2	248.8	204.7	157.4	107.1	78.7	66.1	59.8	56.7
45°	4937.6	4408.6	658.1	229.9	179.5	119.7	75.6	53.5	44.1	44.1	40.9
47.5°	5375.3	4575.5	425.1	207.8	151.2	88.2	50.4	37.8	31.5	31.5	31.5
50°	5809.9	4663.7	302.3	188.9	122.8	59.8	37.8	28.3	25.2	25.2	25.2
52.5°	6124.8	4607.0	242.5	163.7	94.5	44.1	28.3	22.0	18.9	18.9	18.9
55°	6398.7	4509.4	211.0	141.7	69.3	31.5	22.0	18.9	15.7	15.7	15.7
57.5°	6679.0	4383.4	188.9	119.7	50.4	22.0	15.7	12.6	12.6	12.6	12.6
60°	6934.1	4169.3	163.7	94.5	34.6	15.7	12.6	9.4	9.4	9.4	9.4
62.5°	7182.8	3986.6	141.7	72.4	25.2	12.6	6.3	6.3	3.1	3.1	3.1
65°	7324.6	3741.0	113.4	47.2	15.7	9.4	3.1	3.1	0.0	0.0	0.0
67.5°	7280.5	3448.1	78.7	28.3	9.4	6.3	3.1	0.0	0.0	0.0	0.0
70°	6975.0	3054.5	47.2	15.7	9.4	6.3	3.1	0.0	0.0	0.0	0.0
72.5°	5841.4	2261.0	28.3	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0
75°	3901.6	1039.2	15.7	9.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1785.5	311.8	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	359.0	81.9	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.6	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	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)