

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: P258056

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16318.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

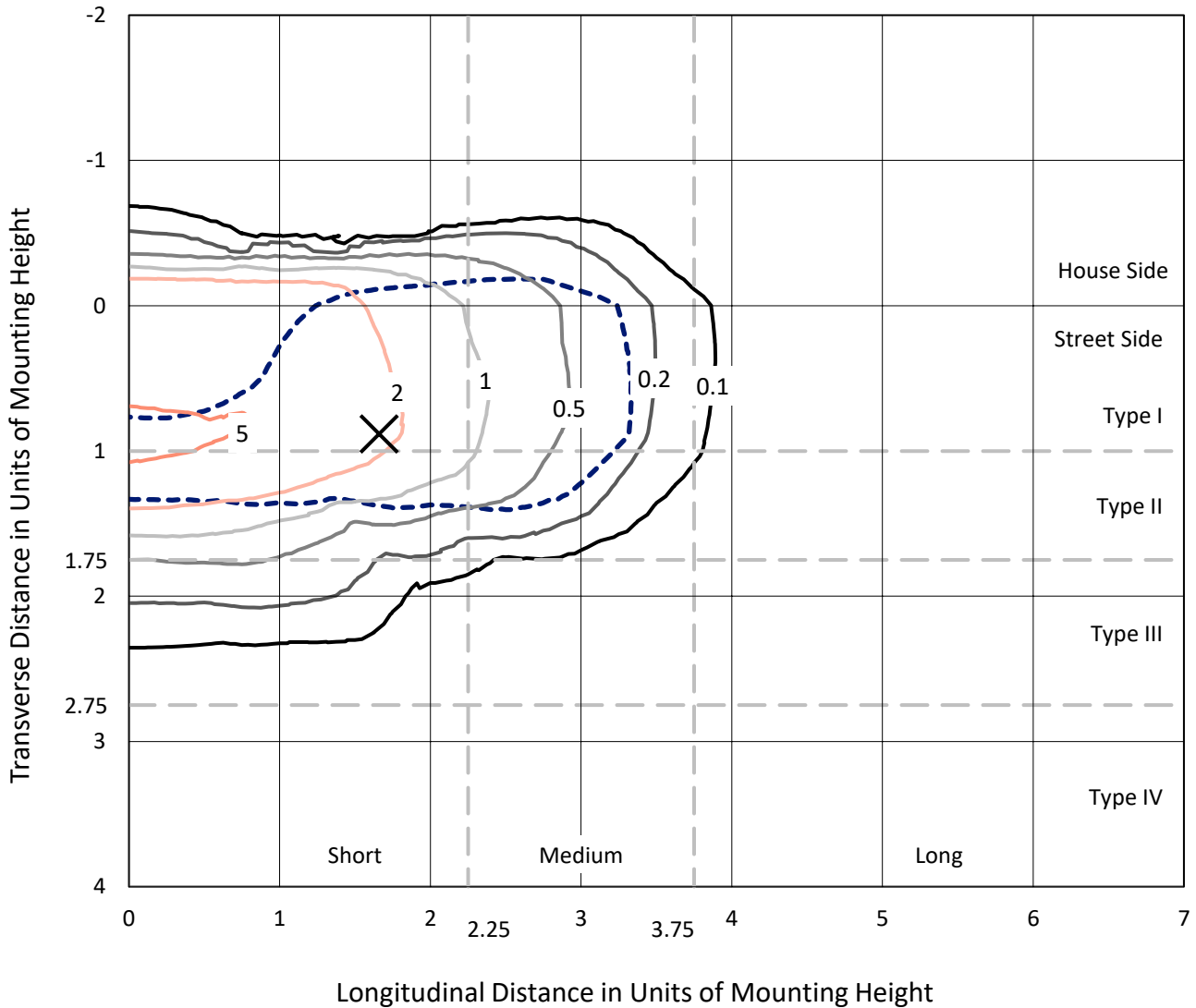
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

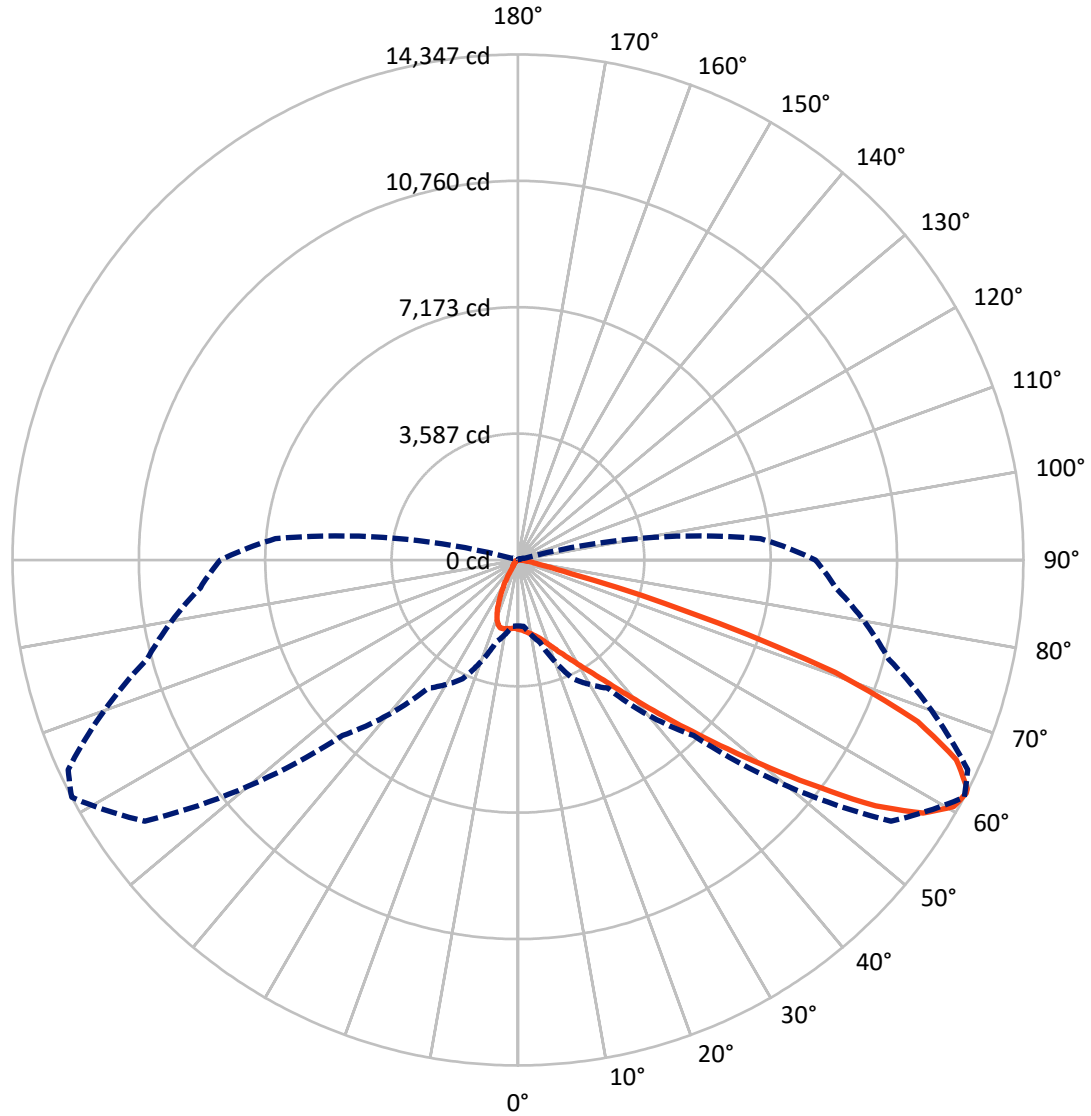
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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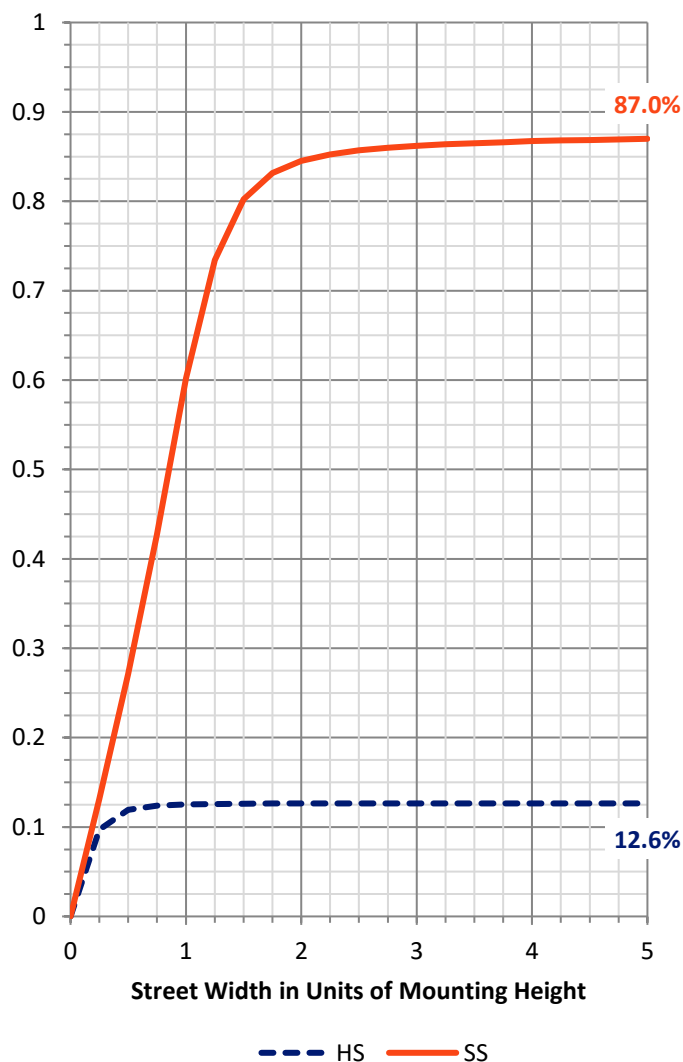
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2086.6	0.0	2086.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14232.4	0.0	14232.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	16318.9	0.0	16318.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.2
10°-20°	528.3	3.2
20°-30°	887.3	5.4
30°-40°	1700.8	10.4
40°-50°	3473.9	21.3
50°-60°	4597.1	28.2
60°-70°	3571.2	21.9
70°-80°	1289.0	7.9
80°-90°	82.2	0.5
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°	16318.9	100.0
0°-180°	16318.9	100.0

Coefficient of Utilization



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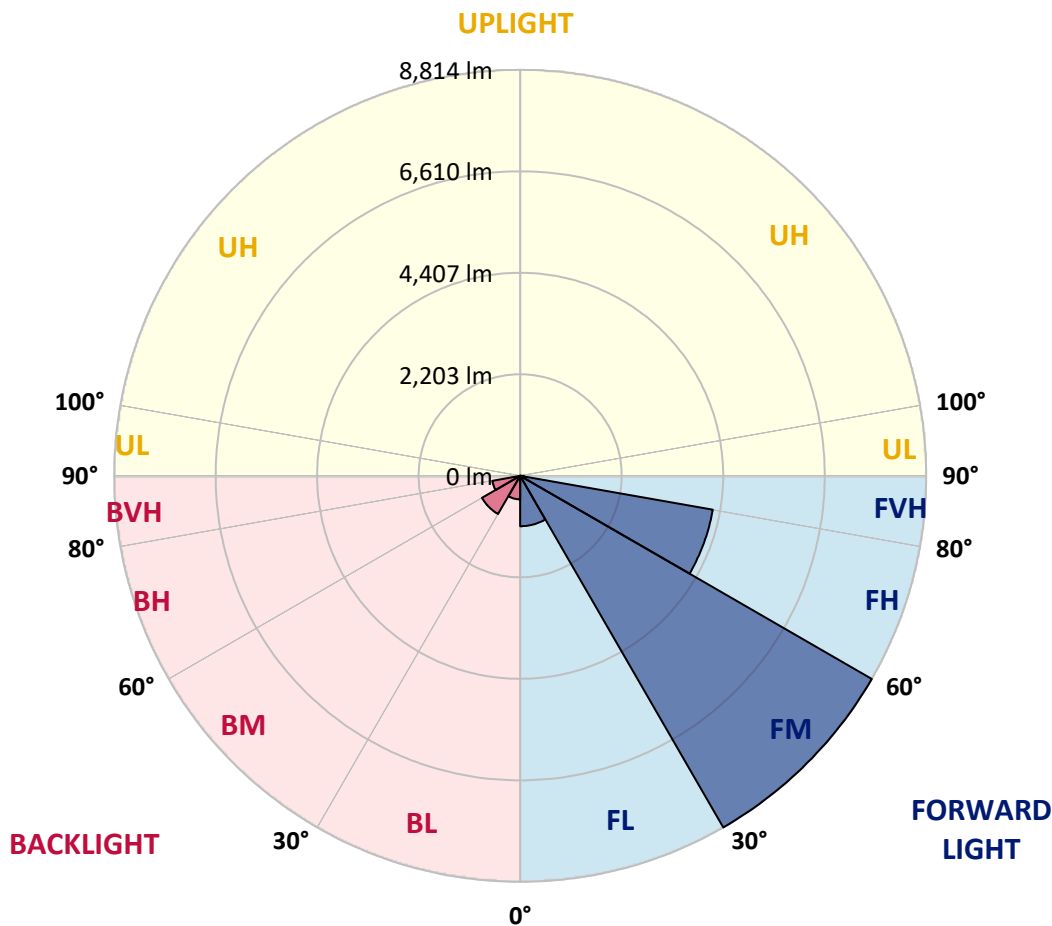
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.0	6.7			
FM (30°-60°)	8813.9	54.0			
FH (60°-80°)	4245.8	26.0			G2/5000
FVH (80°-90°)	78.6	0.5			G1/100
BL (0°-30°)	510.7	3.1	B2/1000		
BM (30°-60°)	957.9	5.9	B1/1000		
BH (60°-80°)	614.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	2018.0	2013.9	2010.0	2006.0	2006.0	2001.9	1998.0	1989.9	1981.9	1973.9	1969.8
5°	2054.1	2050.0	2046.1	2050.0	2046.1	2046.1	2042.0	2034.1	2026.0	2013.9	2001.9
7.5°	2082.2	2078.1	2074.2	2078.1	2082.2	2086.2	2090.2	2082.2	2078.1	2062.2	2050.0
10°	2118.3	2114.2	2110.3	2118.3	2118.3	2138.3	2142.3	2138.3	2134.4	2122.3	2102.2
12.5°	2170.4	2174.5	2174.5	2182.5	2190.5	2214.5	2222.6	2210.6	2210.6	2194.5	2170.4
15°	2266.7	2266.7	2266.7	2274.8	2278.7	2310.9	2318.9	2306.8	2314.8	2286.8	2262.8
17.5°	2359.0	2363.1	2371.0	2387.1	2387.1	2415.1	2431.2	2431.2	2447.3	2411.2	2379.0
20°	2451.2	2455.3	2467.3	2503.4	2503.4	2539.5	2567.6	2579.6	2595.7	2559.6	2503.4
22.5°	2551.5	2551.5	2571.6	2627.8	2615.7	2688.0	2740.1	2760.2	2776.3	2728.1	2639.8
25°	2704.0	2688.0	2704.0	2756.2	2748.2	2848.5	2944.7	2964.8	2984.9	2928.7	2796.3
27.5°	2992.8	2968.8	2912.7	2916.6	2916.6	3033.0	3169.4	3197.5	3209.5	3161.4	2996.9
30°	3570.6	3570.6	3362.0	3221.5	3129.3	3233.6	3426.2	3474.3	3490.4	3418.1	3201.6
32.5°	4577.5	4577.5	4192.4	3835.3	3486.4	3486.4	3706.9	3795.2	3811.3	3727.1	3474.3
35°	5861.4	5853.3	5275.7	4786.2	4104.3	3847.4	4035.9	4184.4	4232.6	4120.2	3827.4
37.5°	7225.5	7173.3	6551.4	5989.8	5055.0	4425.1	4481.3	4677.8	4721.9	4629.8	4284.7
40°	8332.7	8272.6	7771.1	7301.7	6282.6	5347.9	5123.1	5303.8	5355.9	5227.5	4830.4
42.5°	9335.6	9187.3	8842.3	8505.2	7694.8	6944.6	5977.7	6049.9	6106.1	5969.7	5444.2
45°	10061.9	9833.3	9656.7	9552.3	9123.0	8697.8	7085.0	6940.5	6960.7	6792.1	6114.1
47.5°	10081.9	9921.4	9937.4	10210.3	10386.8	10370.8	8525.3	8011.8	7935.5	7654.7	6828.2
50°	9119.1	9211.3	9504.3	10282.5	11237.4	11815.1	10238.3	9279.5	9050.8	8545.3	7538.4
52.5°	7514.3	7658.7	8208.3	9520.2	11361.7	12765.9	12015.7	10727.8	10318.7	9428.0	8084.0
55°	5885.5	5893.5	6471.2	7807.1	10531.3	12938.4	13435.8	12320.5	11694.7	10098.0	8445.0
57.5°	4048.0	4268.6	5002.9	5901.5	8657.7	12079.8	13969.5	13556.3	12749.8	10511.2	8697.8
60°	2651.8	2663.8	3518.4	4557.5	5893.5	9829.2	13644.6	14210.1	13604.3	10755.9	8870.3
62°	1869.5	1889.6	2419.2	3723.0	4441.2	7044.9	12926.4	14346.7	14085.8	10900.4	9050.8
62.5°	1733.2	1749.2	2194.5	3514.5	4172.4	6318.8	12669.6	14314.5	14158.1	10948.5	9115.1
65°	1271.8	1271.8	1436.2	2415.1	3057.1	3414.2	10735.9	13676.5	14061.6	11333.6	9355.8
67.5°	982.9	991.0	1047.1	1488.4	2306.8	2070.1	6852.3	12240.4	13058.7	11903.4	9492.1
70°	846.5	842.5	882.6	986.9	1664.9	1376.1	3016.9	9552.3	10936.5	11758.9	9367.8
72.5°	625.8	629.9	722.1	866.5	1159.5	894.7	1364.0	5071.0	7093.0	9203.4	8027.9
75°	401.2	405.3	509.4	682.0	834.5	585.7	786.3	1512.4	2904.6	5103.2	4910.5
77.5°	268.8	276.9	333.0	477.5	730.2	365.0	493.5	633.9	874.6	1913.6	1761.3
80°	180.5	180.5	212.6	321.0	461.4	305.0	264.7	421.3	453.3	593.8	296.8
82.5°	120.4	120.4	140.4	212.6	300.9	272.8	160.5	228.7	264.7	296.8	104.4
85°	72.2	72.2	96.2	132.4	196.5	152.4	104.4	128.4	136.3	188.6	56.2
87.5°	44.1	40.1	64.3	92.4	104.4	92.4	68.2	68.2	72.2	104.4	28.1
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°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1961.9	1957.8	1953.8	1945.8	1933.8	1925.7	1917.7	1909.7	1901.6	1901.6	1913.6
5°	1998.0	1985.9	1969.8	1953.8	1929.7	1913.6	1901.6	1885.6	1877.6	1877.6	1881.6
7.5°	2042.0	2030.0	2001.9	1973.9	1937.7	1909.7	1881.6	1845.5	1817.4	1805.4	1817.4
10°	2090.2	2074.2	2034.1	1989.9	1949.7	1877.6	1785.3	1673.0	1576.7	1532.6	1552.6
12.5°	2150.3	2130.3	2082.2	2022.0	1929.7	1753.2	1524.5	1263.8	1099.2	1023.0	1039.0
15°	2238.6	2210.6	2142.3	2050.0	1845.5	1464.3	1091.3	790.4	637.8	573.7	581.7
17.5°	2342.9	2306.8	2214.5	2042.0	1628.8	1055.1	649.9	461.4	397.1	381.1	381.1
20°	2455.3	2407.1	2286.8	1981.9	1299.8	662.0	405.3	353.0	329.0	317.0	317.0
22.5°	2571.6	2507.4	2347.0	1841.4	926.7	413.2	333.0	296.8	268.8	256.8	256.8
25°	2712.1	2627.8	2407.1	1596.8	589.8	333.0	284.8	248.8	220.7	204.7	208.5
27.5°	2876.6	2768.2	2459.3	1291.9	381.1	288.9	236.6	200.6	176.6	168.5	168.5
30°	3049.1	2920.7	2471.3	966.8	308.8	248.8	196.5	164.4	148.5	140.4	140.4
32.5°	3285.8	3117.2	2435.2	641.9	260.8	208.5	164.4	136.3	124.3	120.4	120.4
35°	3598.7	3374.0	2350.9	397.1	220.7	172.5	136.3	120.4	108.2	104.4	104.4
37.5°	3995.8	3731.1	2202.5	272.8	188.6	140.4	116.4	104.4	96.2	92.4	92.4
40°	4525.4	4164.3	2010.0	236.6	160.5	120.4	100.3	92.4	84.2	84.2	84.2
42.5°	5087.1	4690.0	1761.3	208.5	136.3	104.4	88.3	80.2	76.3	72.2	72.2
45°	5700.9	5227.5	1452.3	184.5	116.4	92.4	80.2	68.2	64.3	64.3	64.3
47.5°	6310.7	5781.1	1115.3	160.5	100.3	80.2	68.2	60.2	56.2	52.1	52.1
50°	6936.6	6282.6	818.5	140.4	88.3	72.2	60.2	52.1	44.1	40.1	40.1
52.5°	7390.0	6583.5	597.7	120.4	76.3	60.2	48.2	40.1	32.1	28.1	28.1
55°	7722.9	6768.1	437.2	100.3	68.2	52.1	40.1	32.1	24.0	24.0	20.1
57.5°	7983.7	6856.3	329.0	88.3	60.2	44.1	32.1	24.0	20.1	16.1	16.1
60°	8184.3	6860.4	244.7	72.2	52.1	36.0	24.0	16.1	12.0	12.0	12.0
62°	8449.0	6912.5	200.6	60.2	48.2	32.1	20.1	12.0	7.9	4.1	4.1
62.5°	8525.3	6932.6	192.7	60.2	44.1	28.1	16.1	12.0	7.9	4.1	4.1
65°	8878.3	6968.7	148.5	48.2	36.0	24.0	12.0	7.9	0.0	0.0	0.0
67.5°	9199.3	6912.5	108.2	36.0	28.1	16.1	12.0	4.1	0.0	0.0	0.0
70°	9167.2	6527.3	76.3	24.0	20.1	12.0	7.9	0.0	0.0	0.0	0.0
72.5°	7554.4	4886.5	52.1	20.1	12.0	7.9	4.1	0.0	0.0	0.0	0.0
75°	4561.6	2138.3	36.0	12.0	12.0	7.9	4.1	0.0	0.0	0.0	0.0
77.5°	1496.5	774.3	24.0	7.9	7.9	4.1	4.1	0.0	0.0	0.0	0.0
80°	244.7	128.4	12.0	7.9	7.9	4.1	4.1	0.0	0.0	0.0	0.0
82.5°	76.3	32.1	7.9	7.9	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.1	12.0	7.9	7.9	4.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	7.9	7.9	7.9	4.1	4.1	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)