

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: P237434

Luminaire Tested: **ARCH-L-AF72-210-D-U-T4W-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T4W-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17547 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

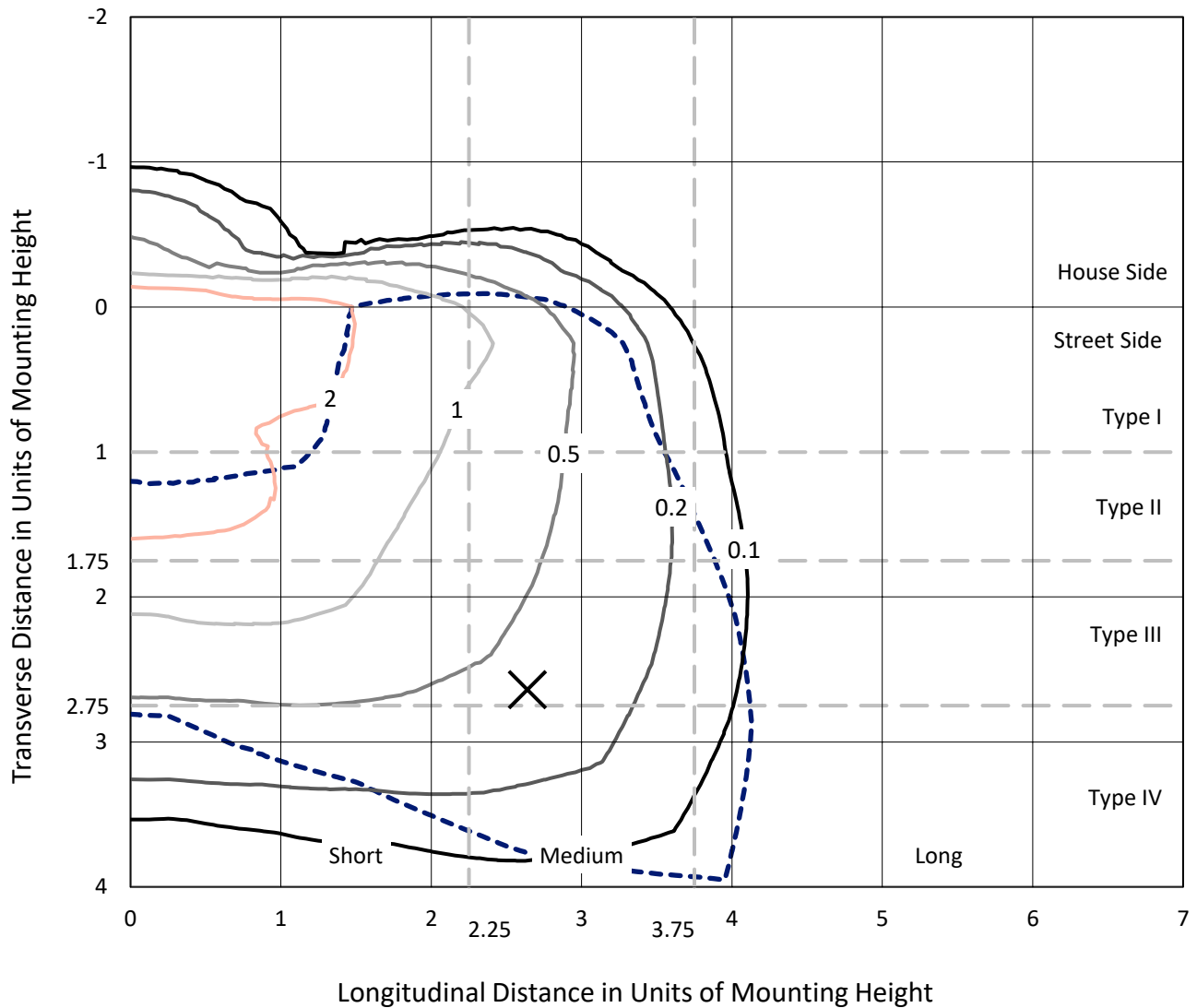
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

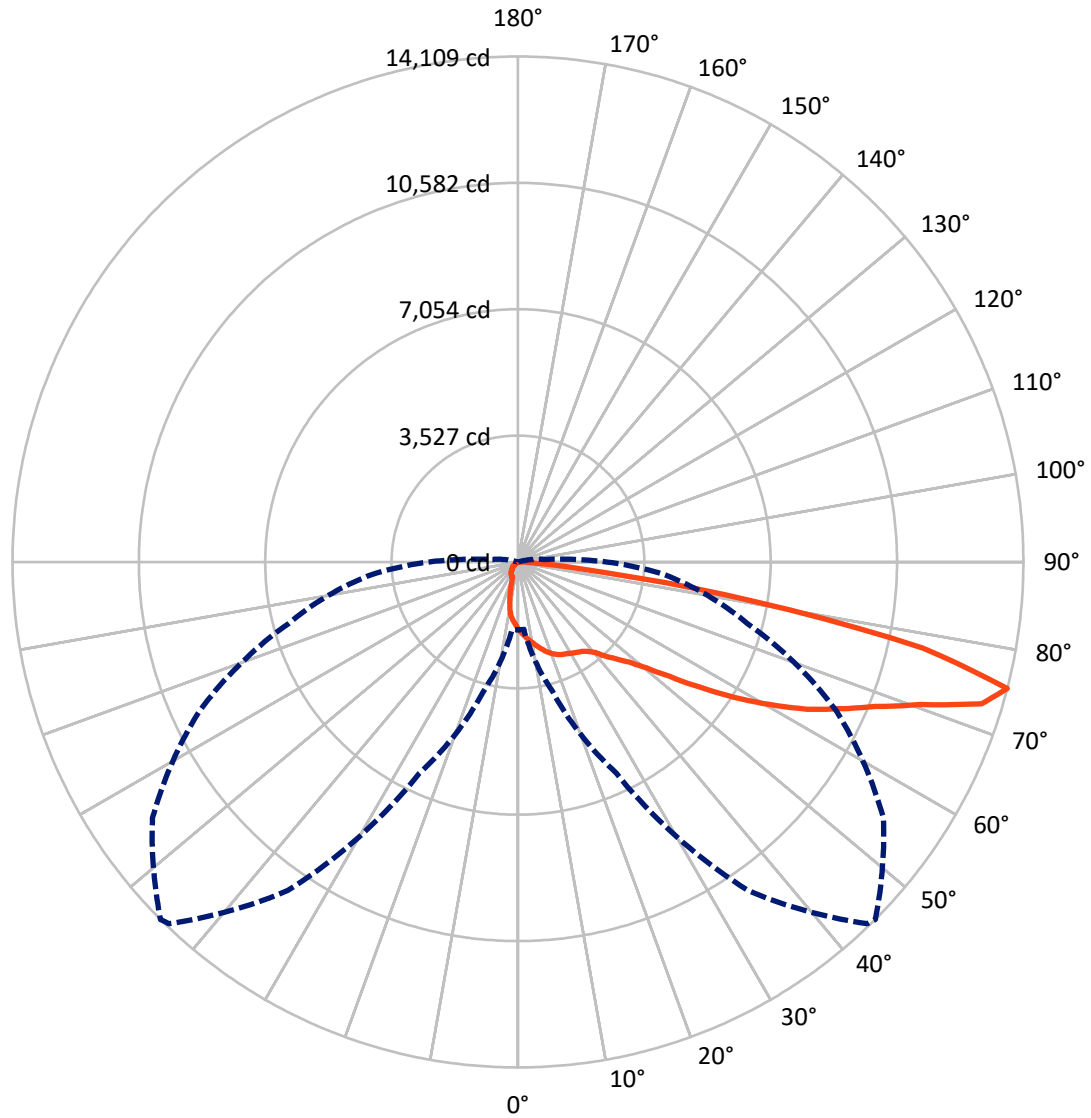
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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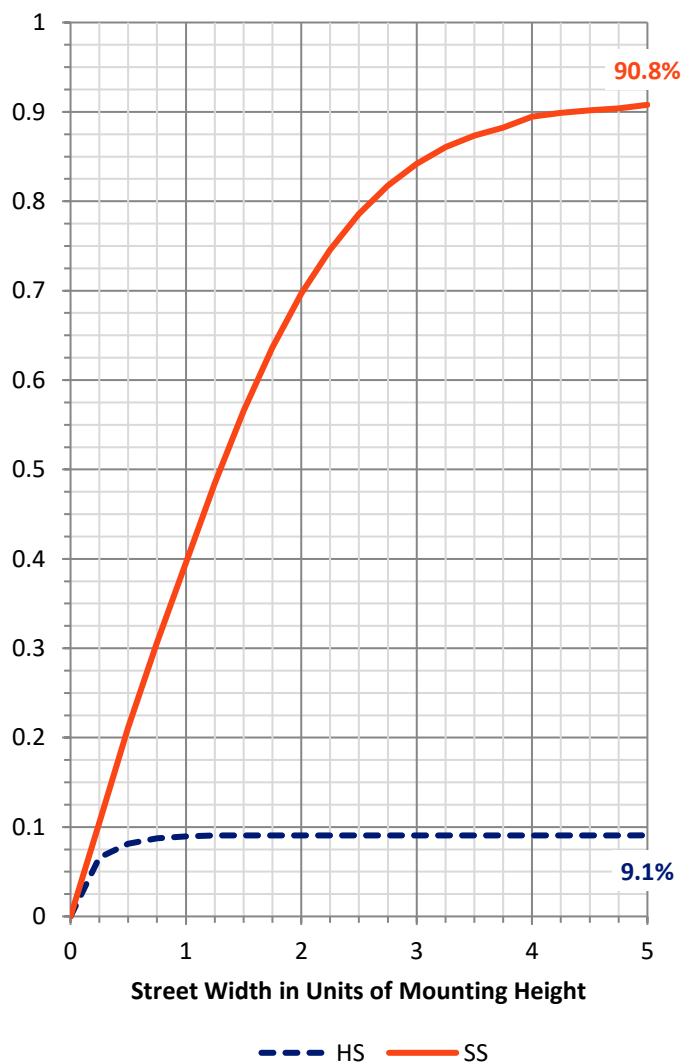
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.0	0.0	1605.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15942.0	0.0	15942.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	17547.0	0.0	17547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.0
10°-20°	501.8	2.9
20°-30°	831.0	4.7
30°-40°	1202.7	6.9
40°-50°	1969.4	11.2
50°-60°	3509.0	20.0
60°-70°	5158.8	29.4
70°-80°	3891.8	22.2
80°-90°	305.3	1.7
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°	17547.0	100.0
0°-180°	17547.0	100.0

Coefficient of Utilization



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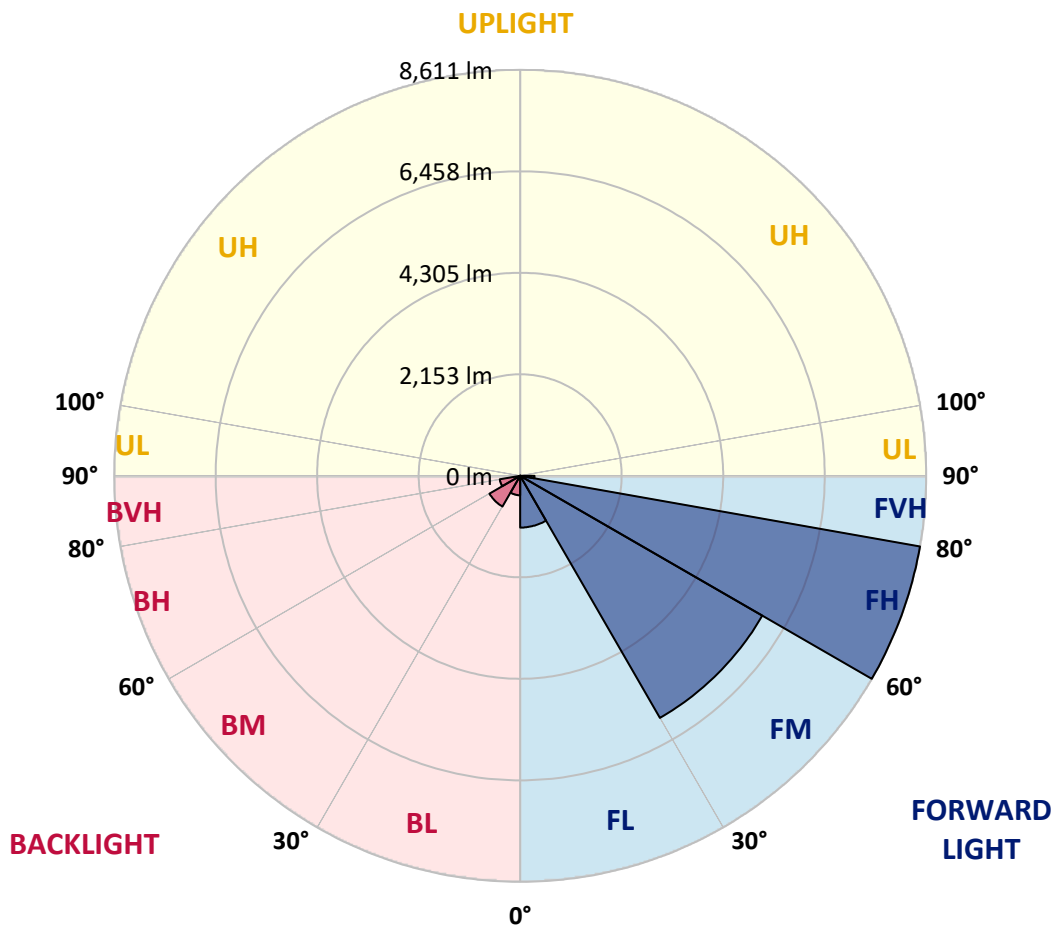
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.5	6.3			
FM (30°-60°)	5929.1	33.8			
FH (60°-80°)	8611.0	49.1			G4/12000
FVH (80°-90°)	304.5	1.7			G3/500
BL (0°-30°)	412.4	2.4	B1/500		
BM (30°-60°)	752.1	4.3	B1/1000		
BH (60°-80°)	439.6	2.5	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	2038.7	2038.7	2034.5	2030.4	2009.6	1988.8	1984.7	1972.2	1934.9	1910.0	1885.0
5°	2208.9	2213.0	2204.8	2184.0	2138.3	2092.7	2088.5	2055.2	1984.7	1934.9	1880.9
7.5°	2370.8	2379.1	2358.4	2321.0	2267.0	2200.6	2196.4	2134.2	2042.8	1972.2	1893.4
10°	2507.8	2507.8	2478.8	2433.1	2375.0	2304.4	2296.1	2225.5	2121.7	2034.5	1930.7
12.5°	2657.3	2653.2	2611.7	2549.3	2482.9	2416.5	2412.3	2325.1	2225.5	2113.4	1984.7
15°	2794.5	2786.1	2732.1	2673.9	2603.3	2532.7	2528.6	2441.4	2337.6	2204.8	2063.6
17.5°	2869.1	2865.0	2815.2	2757.0	2698.8	2644.8	2640.7	2549.3	2437.2	2300.2	2142.5
20°	2881.6	2885.7	2844.2	2794.5	2761.2	2732.1	2732.1	2649.0	2528.6	2383.3	2225.5
22.5°	2885.7	2898.2	2869.1	2802.7	2794.5	2798.5	2806.9	2740.4	2615.7	2478.8	2312.7
25°	2914.8	2931.4	2910.6	2831.8	2823.5	2852.5	2860.9	2831.8	2719.7	2582.6	2412.3
27.5°	2973.0	2989.6	2973.0	2873.3	2860.9	2889.9	2898.2	2914.8	2831.8	2682.2	2516.1
30°	3089.2	3093.3	3056.0	2931.4	2906.6	2943.9	2956.3	3002.0	2935.6	2777.8	2615.7
32.5°	3292.6	3251.1	3139.0	2973.0	2952.1	2993.7	3006.2	3056.0	3031.1	2869.1	2719.7
35°	3707.8	3491.9	3234.5	3031.1	3010.3	3051.8	3068.4	3139.0	3151.5	2997.8	2848.4
37.5°	3703.7	3508.6	3458.7	3143.2	3114.1	3143.2	3163.9	3251.1	3300.9	3168.1	3035.2
40°	3965.2	3882.2	3882.2	3355.0	3259.4	3300.9	3321.7	3408.9	3496.1	3392.3	3255.3
42.5°	4787.4	4733.4	4675.3	3761.8	3462.9	3579.2	3591.6	3645.6	3749.3	3716.1	3554.2
45°	5705.0	5655.2	5430.9	4451.0	3811.6	3832.4	3861.4	3948.6	4098.1	4160.4	3969.4
47.5°	6423.4	6373.5	6182.4	5281.5	4355.5	4172.8	4172.8	4343.0	4575.7	4733.4	4550.7
50°	7000.5	6942.4	6826.1	6165.8	5248.3	4662.8	4637.9	4837.2	5181.8	5426.8	5302.3
52.5°	7561.0	7390.8	7320.2	7079.4	6257.2	5372.9	5306.4	5447.5	5925.0	6228.1	6124.3
55°	7934.6	7909.8	7835.0	7918.0	7316.0	6236.4	6178.3	6207.3	6805.3	7008.8	6880.0
57.5°	8283.5	8279.3	8445.4	8831.5	8470.4	7224.7	7133.3	7087.6	7656.5	7606.6	7718.7
60°	8715.3	8640.6	9026.7	9578.9	9529.0	8188.0	8084.1	7992.8	8308.4	8167.2	8723.6
62.5°	8736.1	8715.3	9500.0	10293.1	10579.6	9167.8	9047.4	8719.4	8877.2	8715.3	9682.7
65°	7942.9	8046.7	9699.3	10671.0	11459.7	10027.4	9882.0	9371.2	9383.7	9275.8	10812.1
67.5°	7764.4	7818.4	9151.2	11077.8	12095.1	10895.2	10758.1	10122.9	9973.4	9981.7	11480.5
70°	7320.2	7403.2	8470.4	11048.8	12597.5	12053.6	11916.6	11227.3	10866.1	10463.3	10965.7
72.5°	5592.9	5734.0	7137.5	9686.8	12460.5	13569.1	13531.8	12626.5	11223.1	9607.9	8295.9
75°	1893.4	1889.2	3749.3	6506.4	11194.0	14034.2	14108.8	12452.2	9790.6	6626.8	4118.8
77.5°	406.9	411.1	772.3	2636.5	7436.4	11268.8	11555.3	9392.0	6315.4	2952.1	942.6
80°	199.3	203.4	319.7	697.5	2973.0	6319.5	6767.9	4828.9	2333.4	589.6	157.8
82.5°	99.7	103.8	166.1	369.6	1100.4	2246.3	2399.9	1777.1	668.4	332.1	78.8
85°	37.3	37.3	83.0	220.0	502.4	527.2	647.7	514.8	402.7	269.9	20.8
87.5°	8.3	8.3	45.7	107.9	224.2	166.1	166.1	157.8	245.0	182.7	8.3
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°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1872.6	1856.0	1827.0	1797.9	1777.1	1752.2	1739.7	1727.3	1723.1	1718.9	1727.3
5°	1851.8	1827.0	1773.0	1727.3	1685.8	1652.5	1627.6	1602.8	1590.3	1582.0	1586.1
7.5°	1851.8	1814.5	1735.6	1665.0	1598.6	1528.0	1457.4	1403.4	1361.9	1337.0	1341.1
10°	1872.6	1822.8	1718.9	1623.5	1498.9	1349.5	1195.9	1079.6	1000.7	955.0	955.0
12.5°	1918.3	1851.8	1723.1	1573.7	1361.9	1100.4	867.7	726.6	668.4	635.3	639.3
15°	1980.6	1901.6	1743.9	1507.2	1170.9	818.0	606.2	514.8	514.8	523.2	527.2
17.5°	2051.2	1963.9	1760.5	1407.6	926.0	585.4	477.5	469.2	481.7	502.4	502.4
20°	2121.7	2026.2	1768.8	1249.8	693.4	465.0	452.6	452.6	460.8	481.7	485.7
22.5°	2208.9	2105.1	1760.5	1054.7	519.0	440.1	436.0	436.0	436.0	460.8	460.8
25°	2300.2	2196.4	1727.3	847.0	440.1	423.5	419.3	415.1	415.1	436.0	440.1
27.5°	2404.0	2291.9	1648.4	647.7	415.1	406.9	402.7	394.4	394.4	411.1	411.1
30°	2507.8	2399.9	1528.0	489.9	394.4	390.3	382.0	373.6	365.4	382.0	382.0
32.5°	2619.9	2512.0	1370.2	390.3	365.4	365.4	361.2	348.7	340.5	348.7	352.9
35°	2769.5	2640.7	1191.7	340.5	328.0	328.0	328.0	323.9	307.2	315.5	315.5
37.5°	2968.8	2819.3	984.1	315.5	299.0	290.6	290.6	290.6	278.2	282.3	282.3
40°	3222.0	3026.9	784.7	294.8	278.2	257.5	249.1	253.3	245.0	245.0	240.8
42.5°	3566.7	3251.1	589.6	278.2	261.5	232.5	215.9	211.8	203.4	199.3	199.3
45°	4060.7	3525.1	423.5	261.5	249.1	203.4	186.9	174.4	153.6	141.2	141.2
47.5°	4700.3	3836.5	315.5	245.0	236.6	178.5	157.8	132.9	103.8	95.5	95.5
50°	5480.8	4185.2	265.7	220.0	215.9	157.8	124.5	87.2	58.1	49.8	54.0
52.5°	6240.6	4513.4	236.6	195.1	190.9	137.0	91.3	45.7	24.9	24.9	24.9
55°	6880.0	4745.9	215.9	174.4	166.1	107.9	49.8	20.8	12.4	12.4	12.4
57.5°	7457.2	4878.8	195.1	153.6	132.9	74.8	20.8	8.3	8.3	4.2	4.2
60°	7984.4	4957.6	170.2	132.9	103.8	41.5	8.3	4.2	4.2	0.0	0.0
62.5°	8503.5	5015.8	145.4	107.9	78.8	16.6	4.2	4.2	0.0	0.0	0.0
65°	8898.0	4995.0	116.3	87.2	49.8	8.3	4.2	0.0	0.0	0.0	0.0
67.5°	8885.5	4712.7	87.2	66.4	24.9	4.2	0.0	0.0	0.0	0.0	0.0
70°	7947.1	3969.4	58.1	41.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	5638.6	2545.2	37.3	24.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2482.9	772.3	20.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	485.7	178.5	12.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.3	20.8	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	4.2	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)