

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: P399896

Luminaire Tested: **ARCH-L-PA3-200-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 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: 15932 lumens
Efficiency: N/A
Efficacy: 79.3 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

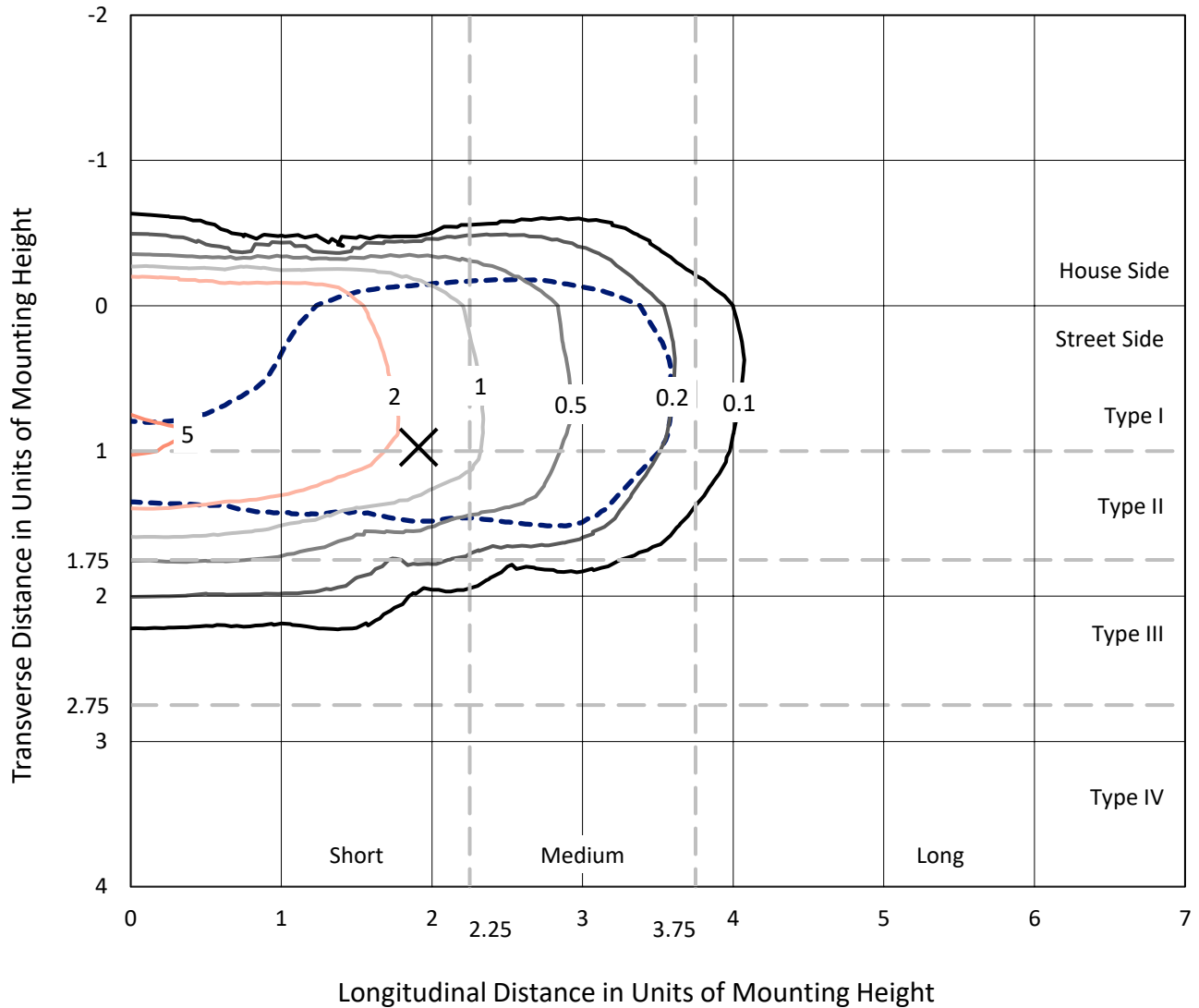
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

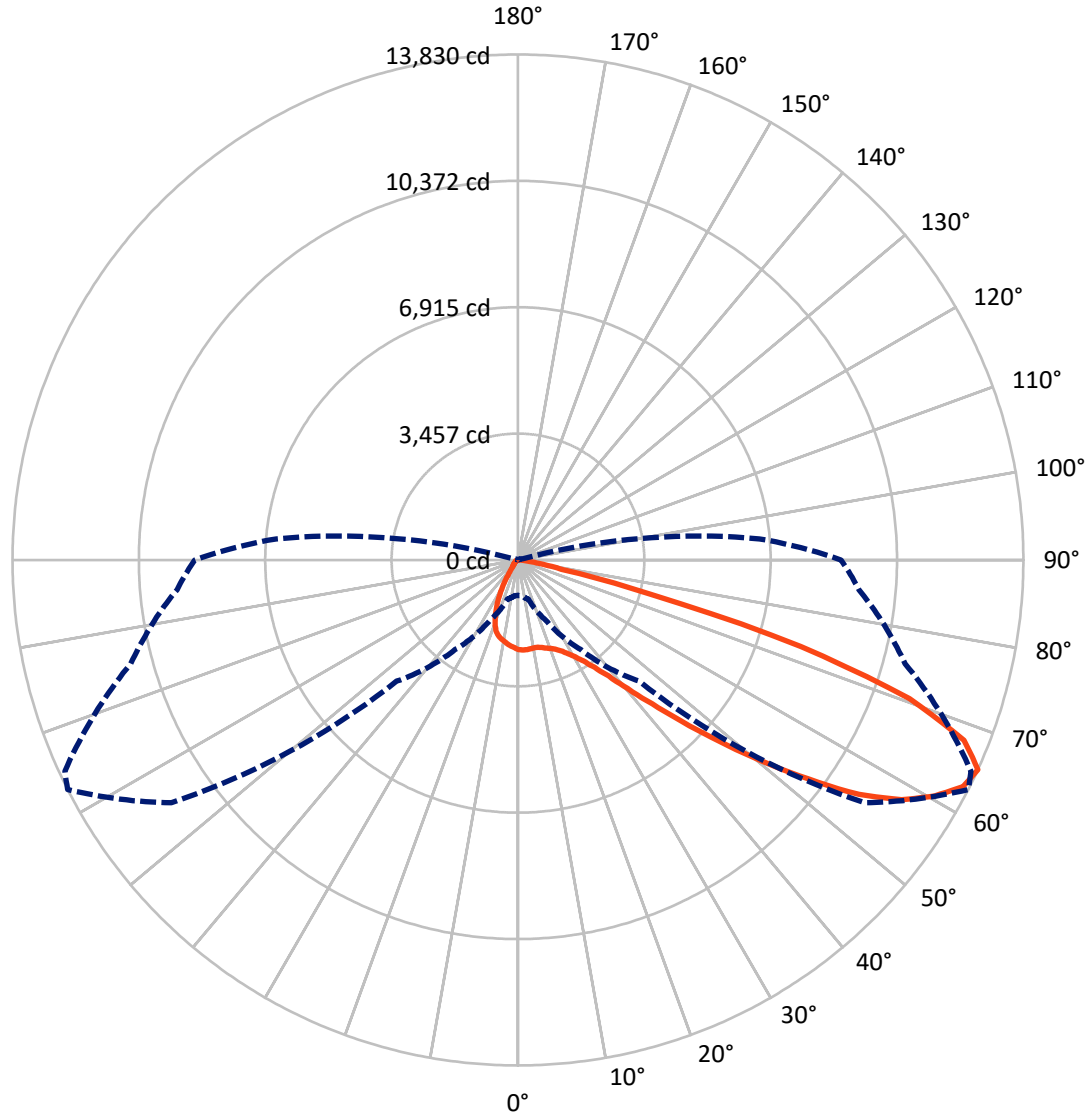
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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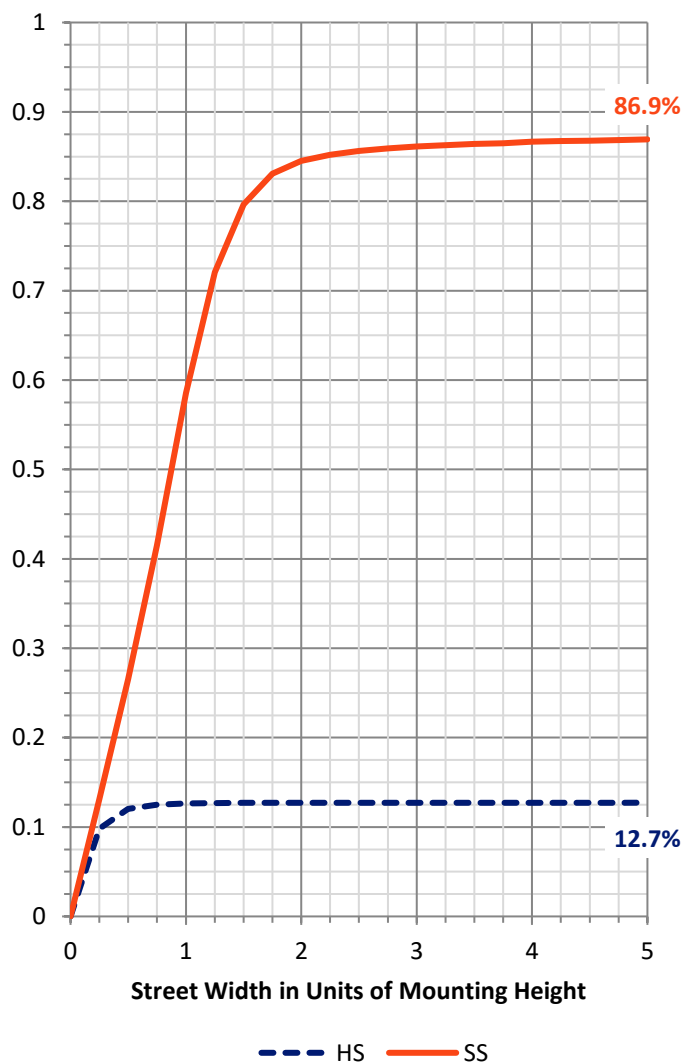
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.4	0.0	2050.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13881.6	0.0	13881.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	15932.0	0.0	15932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	1.4
10°-20°	552.5	3.5
20°-30°	818.9	5.1
30°-40°	1520.4	9.5
40°-50°	3220.9	20.2
50°-60°	4453.7	28.0
60°-70°	3565.3	22.4
70°-80°	1481.3	9.3
80°-90°	95.1	0.6
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°	15932.0	100.0
0°-180°	15932.0	100.0

Coefficient of Utilization

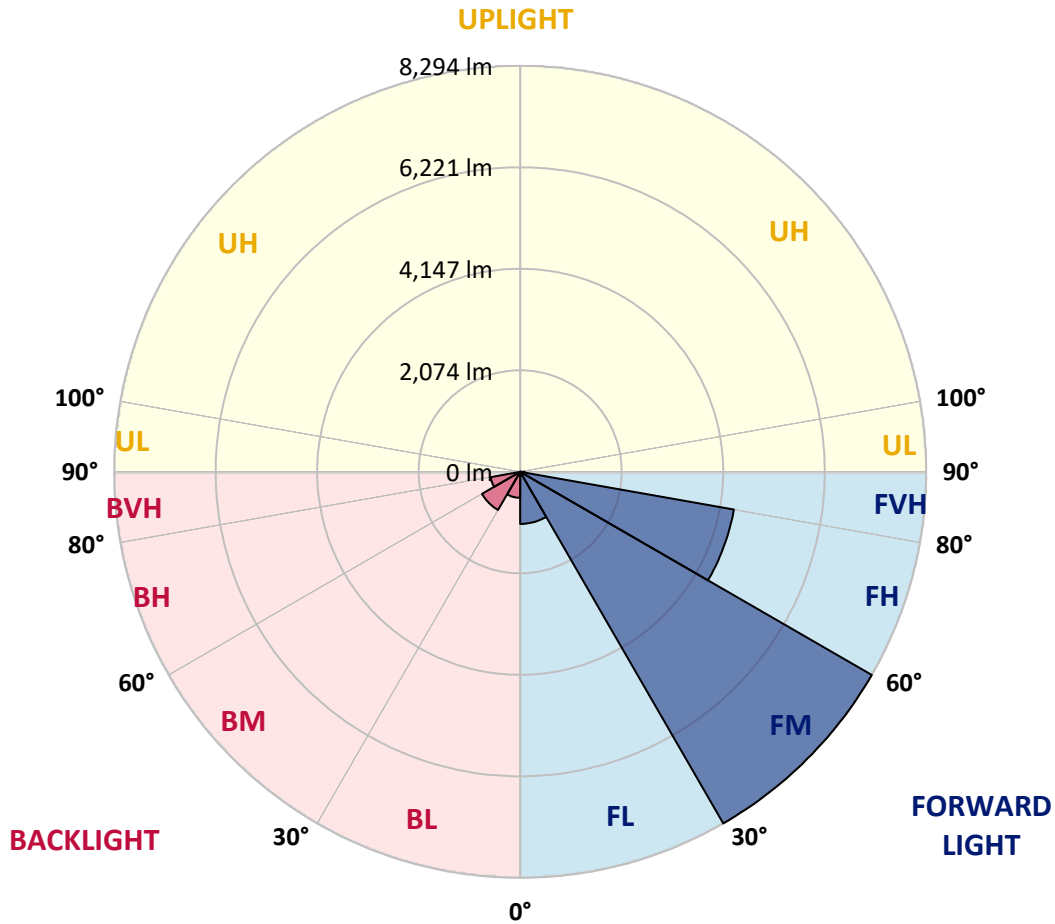


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.9	6.7			
FM (30°-60°)	8294.3	52.1			
FH (60°-80°)	4432.6	27.8			G2/5000
FVH (80°-90°)	90.8	0.6			G1/100
BL (0°-30°)	531.4	3.3	B2/1000		
BM (30°-60°)	900.7	5.7	B1/1000		
BH (60°-80°)	614.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3
2.5°	2496.4	2490.4	2484.4	2481.4	2481.4	2478.4	2466.4	2463.4	2457.3	2451.3	2445.3
5°	2472.4	2463.4	2460.3	2463.4	2466.4	2472.4	2466.4	2466.4	2460.3	2454.3	2442.3
7.5°	2412.2	2406.2	2409.2	2418.2	2421.2	2442.3	2445.3	2454.3	2454.3	2448.3	2439.3
10°	2340.0	2337.0	2337.0	2352.1	2367.1	2397.2	2418.2	2442.3	2445.3	2445.3	2430.3
12.5°	2285.9	2282.9	2291.9	2310.0	2340.0	2379.1	2415.2	2451.3	2457.3	2460.3	2436.3
15°	2252.8	2252.8	2264.8	2300.9	2343.0	2397.2	2439.3	2487.4	2493.4	2490.4	2457.3
17.5°	2222.7	2225.7	2249.8	2310.0	2358.1	2430.3	2481.4	2535.5	2538.6	2535.5	2481.4
20°	2210.7	2216.7	2252.8	2331.0	2385.2	2466.4	2532.5	2586.7	2589.7	2577.7	2505.5
22.5°	2243.8	2246.8	2291.9	2376.1	2427.3	2517.5	2601.7	2652.8	2655.9	2637.8	2541.6
25°	2358.1	2358.1	2397.2	2469.4	2514.5	2604.7	2695.0	2755.1	2755.1	2734.1	2622.8
27.5°	2625.8	2601.7	2592.7	2613.7	2628.8	2725.0	2821.3	2896.5	2893.5	2863.4	2728.0
30°	3143.1	3083.0	2986.7	2878.4	2824.3	2890.5	2980.7	3076.9	3073.9	3025.8	2857.4
32.5°	4012.4	3925.1	3696.5	3410.8	3179.2	3104.0	3188.2	3293.5	3296.5	3239.4	3064.9
35°	5230.5	5092.1	4683.1	4286.1	3756.7	3471.0	3495.0	3609.3	3645.4	3615.3	3413.8
37.5°	6403.5	6277.2	5886.2	5335.8	4616.9	4033.4	3931.1	4030.4	4072.5	4072.5	3859.0
40°	7585.6	7438.2	7092.3	6538.9	5780.9	4911.7	4544.7	4625.9	4671.1	4680.1	4400.4
42.5°	8533.0	8436.8	8172.1	7742.0	7032.1	6451.6	5429.0	5383.9	5426.0	5392.9	5029.0
45°	9188.7	9113.5	8930.0	8767.6	8421.7	8130.0	6611.1	6307.3	6334.3	6220.1	5735.8
47.5°	9324.1	9239.8	9200.7	9426.3	9673.0	9745.1	8063.8	7405.1	7378.0	7125.4	6469.7
50°	8734.5	8743.6	8887.9	9531.6	10560.2	11209.9	9748.2	8644.3	8545.0	7982.6	7152.5
52.5°	7462.3	7606.6	7970.6	9014.3	10830.9	12274.7	11432.5	9958.7	9805.3	8815.7	7663.8
55°	5838.1	6024.5	6623.1	7823.2	10265.5	12749.9	12852.2	11324.2	10975.3	9441.4	8060.8
57.5°	4340.2	4397.3	5095.1	6190.0	8927.0	12283.7	13580.0	12376.9	11928.8	9940.7	8454.8
60°	2704.0	2740.1	3477.0	4713.2	6761.4	10560.2	13580.0	13101.8	12674.7	10388.8	8815.7
62.5°	1681.3	1693.4	1970.1	3230.3	4595.9	7832.2	13017.6	13664.3	13321.4	10710.6	9125.5
65°	968.5	980.5	1109.9	1825.7	2989.7	4689.1	11579.9	13829.7	13676.3	10966.3	9366.2
67.5°	706.8	712.8	764.0	1025.6	1955.0	2409.2	8698.4	13165.0	13357.5	11092.6	9360.2
70°	613.6	622.6	688.8	800.1	1410.6	1479.8	4427.4	11369.3	11907.7	10912.2	9080.4
72.5°	472.2	484.2	583.5	751.9	1034.7	1064.7	1603.1	8090.9	8906.0	9784.2	8313.5
75°	324.8	336.9	436.1	619.6	854.2	797.1	881.3	3723.6	4698.1	6562.9	6328.3
77.5°	207.5	210.5	273.7	451.2	736.9	565.5	604.6	1215.1	1705.4	2968.7	2986.7
80°	138.4	141.4	168.4	291.8	505.3	523.4	373.0	562.5	616.6	866.2	601.6
82.5°	84.2	84.2	114.3	183.5	306.8	433.1	243.6	294.8	315.8	333.9	156.4
85°	33.1	33.1	69.2	120.3	192.5	201.5	153.4	171.4	180.5	195.5	72.2
87.5°	9.0	9.0	39.1	66.2	84.2	93.2	93.2	84.2	90.2	111.3	36.1
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°	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3
2.5°	2442.3	2433.3	2421.2	2409.2	2397.2	2388.2	2379.1	2379.1	2373.1	2364.1	2358.1
5°	2436.3	2421.2	2394.2	2373.1	2340.0	2316.0	2297.9	2282.9	2273.9	2252.8	2249.8
7.5°	2427.3	2409.2	2370.1	2328.0	2273.9	2231.8	2189.7	2159.6	2129.5	2105.4	2099.4
10°	2412.2	2391.2	2334.0	2273.9	2198.7	2120.5	2021.2	1906.9	1801.6	1741.5	1723.4
12.5°	2412.2	2385.2	2310.0	2228.8	2120.5	1928.0	1675.3	1422.7	1227.2	1139.9	1115.9
15°	2427.3	2391.2	2291.9	2180.6	1979.1	1588.1	1179.0	845.2	631.6	565.5	550.4
17.5°	2442.3	2391.2	2264.8	2114.5	1720.4	1152.0	670.7	445.1	376.0	360.9	360.9
20°	2448.3	2385.2	2228.8	1991.1	1374.5	715.8	400.0	333.9	306.8	297.8	297.8
22.5°	2472.4	2388.2	2201.7	1813.7	998.6	421.1	315.8	279.7	252.7	243.6	243.6
25°	2532.5	2424.3	2207.7	1588.1	640.7	318.8	267.7	231.6	204.5	192.5	192.5
27.5°	2628.8	2505.5	2240.8	1326.4	403.0	273.7	225.6	186.5	165.4	153.4	153.4
30°	2737.1	2595.7	2255.8	1025.6	300.8	231.6	183.5	147.4	132.3	123.3	120.3
32.5°	2926.6	2752.1	2243.8	703.8	246.6	195.5	147.4	117.3	105.3	102.3	102.3
35°	3230.3	3025.8	2219.7	442.1	204.5	156.4	117.3	96.2	87.2	84.2	81.2
37.5°	3642.4	3425.8	2147.5	291.8	168.4	123.3	96.2	81.2	72.2	69.2	69.2
40°	4144.7	3883.0	2009.2	222.6	144.4	99.3	81.2	69.2	63.2	60.2	60.2
42.5°	4719.2	4391.3	1789.6	192.5	120.3	84.2	69.2	57.1	54.1	51.1	51.1
45°	5347.8	4923.7	1485.8	171.4	102.3	69.2	57.1	51.1	45.1	45.1	42.1
47.5°	6015.5	5459.1	1142.9	150.4	87.2	60.2	51.1	42.1	39.1	36.1	36.1
50°	6659.2	5937.3	803.1	129.3	72.2	51.1	42.1	36.1	33.1	30.1	30.1
52.5°	7113.4	6226.1	568.5	111.3	60.2	45.1	33.1	27.1	24.1	24.1	24.1
55°	7477.3	6406.5	397.0	93.2	51.1	39.1	27.1	21.1	21.1	18.0	18.0
57.5°	7820.2	6523.8	291.8	78.2	42.1	30.1	21.1	15.0	15.0	12.0	12.0
60°	8175.1	6587.0	222.6	63.2	36.1	24.1	15.0	12.0	9.0	9.0	9.0
62.5°	8533.0	6626.1	171.4	51.1	30.1	18.0	12.0	9.0	6.0	3.0	3.0
65°	8845.8	6638.1	132.3	39.1	24.1	12.0	9.0	3.0	0.0	0.0	0.0
67.5°	8939.1	6499.8	102.3	30.1	18.0	9.0	6.0	0.0	0.0	0.0	0.0
70°	8686.4	6132.8	78.2	24.1	15.0	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	7708.9	5143.3	60.2	15.0	12.0	6.0	3.0	0.0	0.0	0.0	0.0
75°	5516.2	2743.1	42.1	12.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	2538.6	1061.7	30.1	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	496.3	264.7	12.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	114.3	45.1	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.1	15.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	6.0	3.0	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)