

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: P399853

Luminaire Tested: **ARCH-L-PA3-200-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399853
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-PA3-200-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA 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: 19297 lumens
Efficiency: N/A
Efficacy: 96.0 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

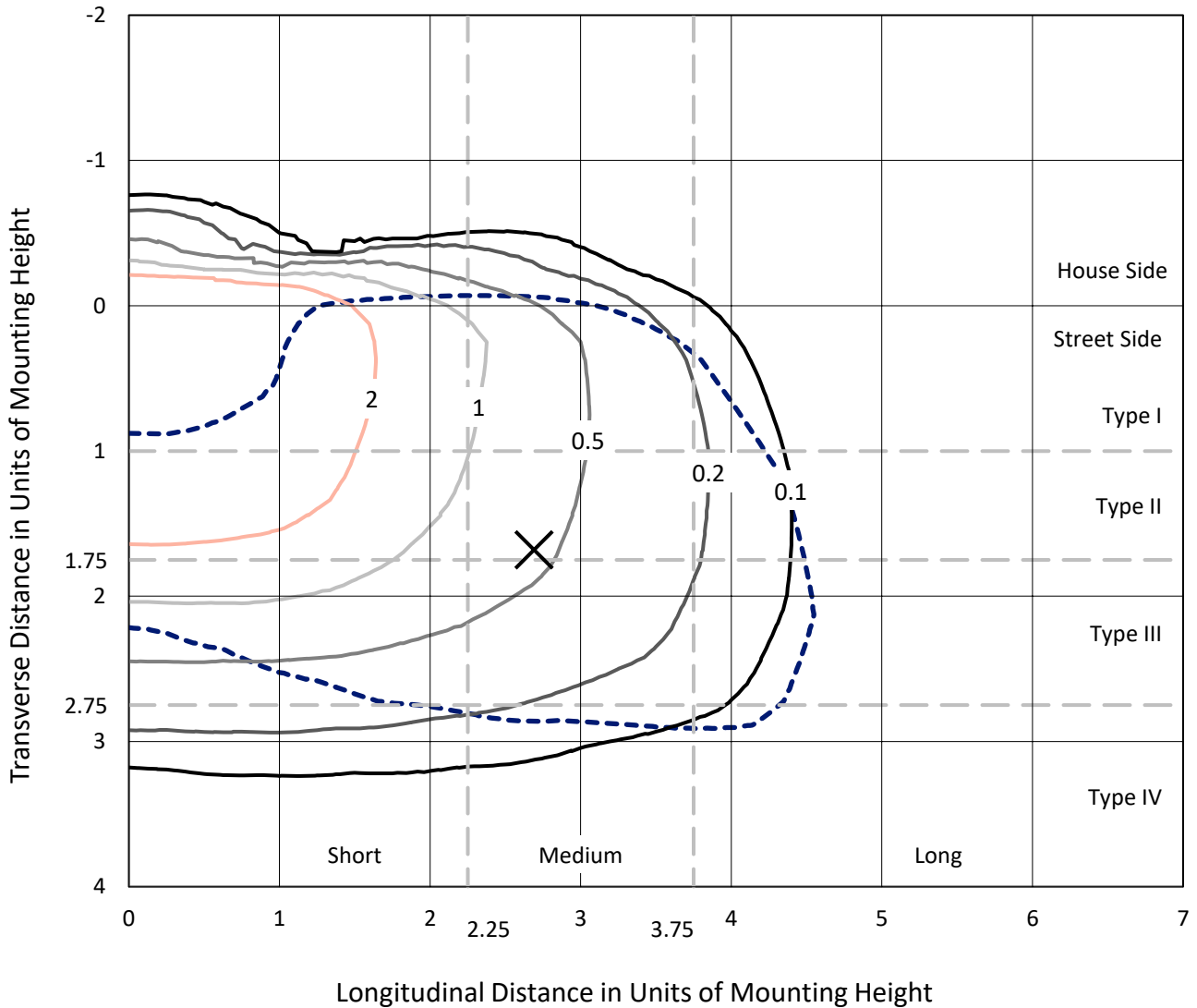
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

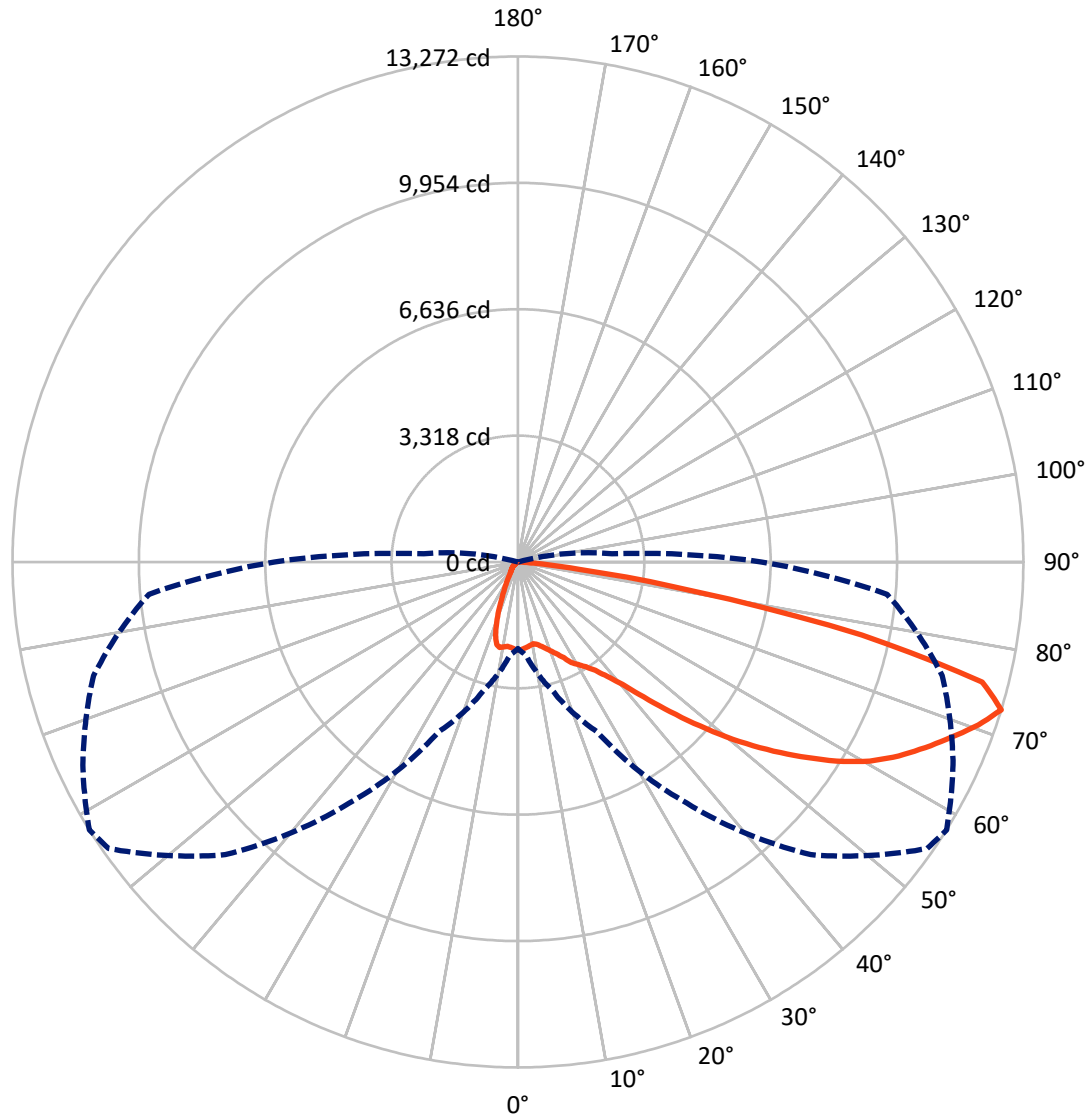
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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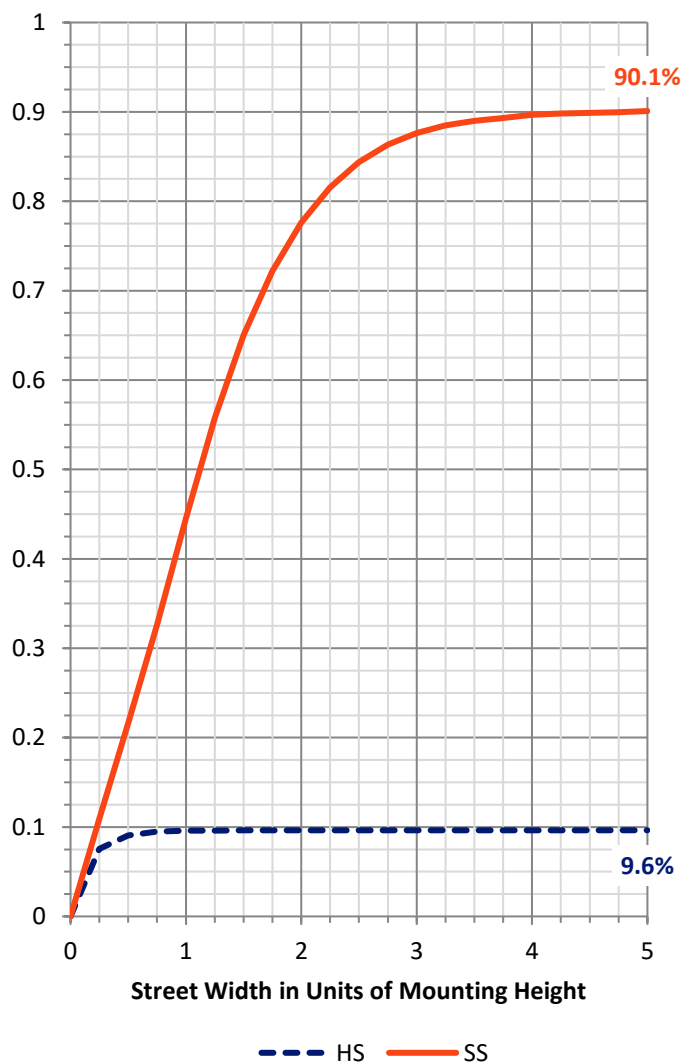
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1876.5	0.0	1876.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17420.5	0.0	17420.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	19297.0	0.0	19297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.1
10°-20°	553.5	2.9
20°-30°	869.5	4.5
30°-40°	1499.5	7.8
40°-50°	2852.9	14.8
50°-60°	4518.2	23.4
60°-70°	5272.2	27.3
70°-80°	3302.0	17.1
80°-90°	216.7	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°	19297.0	100.0
0°-180°	19297.0	100.0

Coefficient of Utilization



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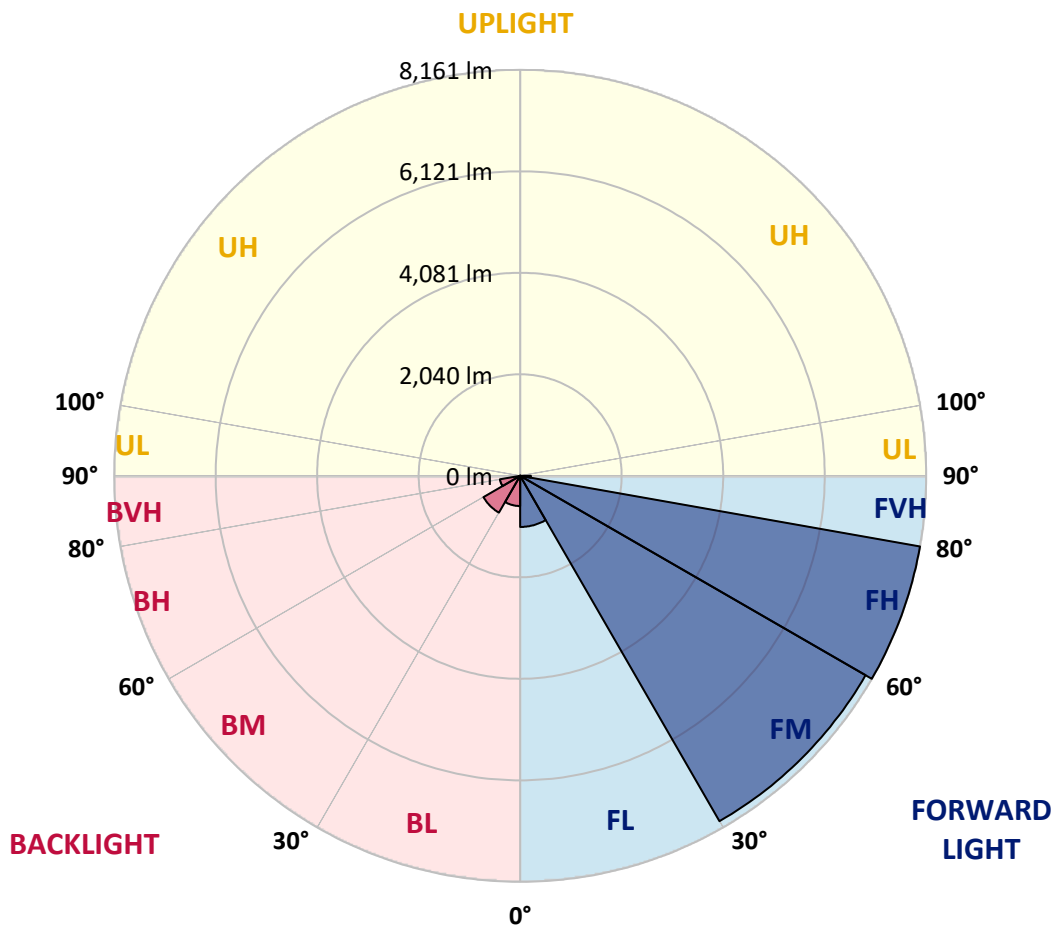
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.8	5.3			
FM (30°-60°)	8016.8	41.5			
FH (60°-80°)	8161.2	42.3			G4/12000
FVH (80°-90°)	214.6	1.1			G2/225
BL (0°-30°)	607.7	3.1	B2/1000		
BM (30°-60°)	853.8	4.4	B1/1000		
BH (60°-80°)	412.9	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5
2.5°	2305.2	2294.8	2291.4	2287.9	2291.4	2294.8	2284.5	2294.8	2287.9	2291.4	2298.3
5°	2222.3	2212.0	2208.5	2212.0	2222.3	2239.6	2246.5	2256.9	2256.9	2267.2	2270.7
7.5°	2129.2	2122.3	2118.8	2125.7	2146.4	2184.4	2205.1	2218.9	2232.7	2253.4	2274.1
10°	2077.4	2074.0	2070.5	2080.9	2101.6	2136.1	2163.7	2184.4	2236.2	2294.8	2332.8
12.5°	2042.9	2042.9	2049.8	2070.5	2098.1	2125.7	2191.3	2218.9	2298.3	2388.0	2439.8
15°	2015.3	2015.3	2025.7	2063.6	2101.6	2167.1	2263.8	2294.8	2388.0	2498.4	2567.4
17.5°	1994.6	2001.5	2008.4	2046.4	2118.8	2229.3	2343.1	2388.0	2501.9	2622.6	2698.6
20°	1998.0	2004.9	2008.4	2046.4	2149.9	2301.7	2446.7	2498.4	2629.6	2757.2	2833.2
22.5°	2018.7	2029.1	2032.6	2084.3	2205.1	2377.6	2564.0	2622.6	2764.1	2898.7	2957.4
25°	2105.0	2111.9	2091.2	2136.1	2284.5	2495.0	2715.8	2777.9	2919.4	3043.7	3092.0
27.5°	2398.3	2405.2	2291.4	2239.6	2346.6	2591.6	2902.2	2988.4	3164.4	3247.3	3254.2
30°	3033.3	3040.2	2815.9	2570.9	2495.0	2674.4	3005.7	3126.5	3354.2	3447.4	3406.0
32.5°	3851.2	3844.3	3537.1	3174.8	2847.0	2819.3	3154.1	3281.8	3530.2	3619.9	3588.9
35°	4672.5	4682.8	4420.5	3875.3	3406.0	3092.0	3343.9	3492.3	3792.5	3920.2	3865.0
37.5°	5234.9	5304.0	5190.1	4600.0	4092.7	3595.8	3651.0	3809.7	4185.9	4358.4	4241.1
40°	6028.6	6011.4	5735.3	5300.5	4851.9	4341.2	4147.9	4223.8	4655.2	4886.4	4703.5
42.5°	7095.0	7060.4	6591.1	6166.7	5666.3	5248.7	4855.4	4841.5	5193.5	5462.7	5197.0
45°	8061.2	8009.4	7688.5	7277.8	6729.2	6249.5	5718.1	5597.3	5842.3	6070.1	5759.5
47.5°	8830.7	8744.5	8516.7	8299.3	8164.7	7419.3	6622.2	6439.3	6563.5	6732.6	6294.4
50°	9741.8	9503.6	9172.4	9041.2	9320.8	8744.5	7491.8	7315.8	7308.9	7405.5	6846.5
52.5°	10155.9	9724.5	9538.2	9648.6	10142.1	9976.4	8430.4	8178.5	8078.4	8088.8	7360.7
55°	9655.5	9607.2	9707.2	10052.3	10697.6	10601.0	9331.1	9020.5	8872.1	8685.8	7854.1
57.5°	9086.1	9234.5	9631.3	10290.4	11401.6	11253.2	10218.0	9866.0	9593.4	9165.5	8402.8
60°	8561.6	8713.4	9369.1	10345.7	11788.1	11881.3	10956.5	10621.7	10218.0	9655.5	9006.7
62.5°	7764.4	7881.7	8803.1	10266.3	11619.0	12247.1	11470.6	11218.7	10842.6	10121.4	9700.3
65°	6867.2	6943.1	7854.1	9631.3	11287.7	12205.7	11895.1	11753.6	11387.8	10607.9	10387.1
67.5°	5883.7	5973.4	6732.6	8489.1	10639.0	12012.4	12295.4	12281.6	11864.0	11146.3	10884.0
70°	4751.8	4758.7	5386.8	7039.7	9507.1	11625.9	12792.3	12823.4	12319.5	11550.0	10904.7
72.5°	2274.1	2460.5	3492.3	4914.0	7726.5	10866.7	13116.7	13272.0	12606.0	11536.2	9728.0
75°	521.1	538.3	1018.0	2336.2	4531.0	8340.7	12305.7	12595.6	11908.9	9976.4	6853.4
77.5°	189.8	200.1	286.4	683.3	1742.7	4310.1	8806.6	9231.0	8803.1	6449.6	3240.4
80°	127.7	124.2	148.4	303.7	800.6	1221.6	4503.4	4755.3	4341.2	2201.6	776.4
82.5°	65.6	69.0	103.5	169.1	538.3	424.5	1504.6	1635.7	1345.8	441.7	144.9
85°	31.1	31.1	58.7	107.0	227.8	148.4	334.7	403.7	362.3	193.2	48.3
87.5°	31.1	31.1	55.2	69.0	117.3	62.1	82.8	103.5	96.6	103.5	17.3
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°	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5	2315.5
2.5°	2298.3	2294.8	2291.4	2298.3	2294.8	2301.7	2301.7	2308.6	2308.6	2301.7	2298.3
5°	2267.2	2260.3	2253.4	2253.4	2250.0	2256.9	2277.6	2294.8	2298.3	2287.9	2284.5
7.5°	2270.7	2270.7	2263.8	2250.0	2225.8	2225.8	2225.8	2246.5	2256.9	2250.0	2246.5
10°	2332.8	2336.2	2319.0	2287.9	2246.5	2208.5	2136.1	2029.1	1929.0	1901.4	1891.1
12.5°	2439.8	2443.2	2408.7	2353.5	2267.2	2042.9	1766.8	1511.5	1314.8	1259.6	1249.2
15°	2567.4	2570.9	2508.8	2419.0	2156.8	1635.7	1225.1	935.2	762.6	721.2	717.8
17.5°	2698.6	2691.7	2598.5	2425.9	1829.0	1159.5	745.4	597.0	552.1	541.8	545.2
20°	2826.2	2805.5	2677.9	2298.3	1407.9	759.2	545.2	510.7	500.4	493.5	493.5
22.5°	2943.6	2902.2	2743.4	2046.4	986.9	545.2	486.6	479.7	465.9	455.5	452.1
25°	3060.9	3002.2	2784.8	1718.5	662.6	476.2	459.0	445.2	427.9	414.1	410.7
27.5°	3202.4	3119.6	2764.1	1304.4	496.9	441.7	427.9	407.2	383.0	362.3	355.4
30°	3337.0	3243.8	2646.8	900.7	424.5	407.2	386.5	355.4	324.4	300.2	293.3
32.5°	3506.1	3399.1	2436.3	590.1	369.2	355.4	334.7	296.8	255.4	227.8	220.9
35°	3747.6	3626.8	2167.1	414.1	324.4	300.2	272.6	231.2	186.3	165.6	162.2
37.5°	4085.8	3923.6	1829.0	334.7	286.4	251.9	210.5	169.1	138.0	120.8	117.3
40°	4499.9	4251.5	1452.8	296.8	255.4	210.5	158.7	120.8	100.1	86.3	86.3
42.5°	4948.5	4558.6	1069.8	272.6	224.3	172.5	117.3	86.3	72.5	65.6	62.1
45°	5410.9	4831.2	721.2	251.9	196.7	131.1	82.8	58.7	48.3	48.3	44.9
47.5°	5890.6	5014.1	465.9	227.8	165.6	96.6	55.2	41.4	34.5	34.5	34.5
50°	6366.8	5110.7	331.3	207.1	134.6	65.6	41.4	31.1	27.6	27.6	27.6
52.5°	6711.9	5048.6	265.7	179.4	103.5	48.3	31.1	24.2	20.7	20.7	20.7
55°	7012.1	4941.6	231.2	155.3	75.9	34.5	24.2	20.7	17.3	17.3	17.3
57.5°	7319.3	4803.6	207.1	131.1	55.2	24.2	17.3	13.8	13.8	13.8	13.8
60°	7598.8	4568.9	179.4	103.5	38.0	17.3	13.8	10.4	10.4	10.4	10.4
62.5°	7871.4	4368.8	155.3	79.4	27.6	13.8	6.9	6.9	3.5	3.5	3.5
65°	8026.7	4099.6	124.2	51.8	17.3	10.4	3.5	3.5	0.0	0.0	0.0
67.5°	7978.4	3778.7	86.3	31.1	10.4	6.9	3.5	0.0	0.0	0.0	0.0
70°	7643.6	3347.3	51.8	17.3	10.4	6.9	3.5	0.0	0.0	0.0	0.0
72.5°	6401.3	2477.7	31.1	13.8	6.9	3.5	0.0	0.0	0.0	0.0	0.0
75°	4275.6	1138.8	17.3	10.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1956.6	341.6	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	393.4	89.7	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.8	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	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)