

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: P399635

Luminaire Tested: **ARCH-L-PA3-170-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399635
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-PA3-170-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA 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: 16436 lumens
Efficiency: N/A
Efficacy: 95.0 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

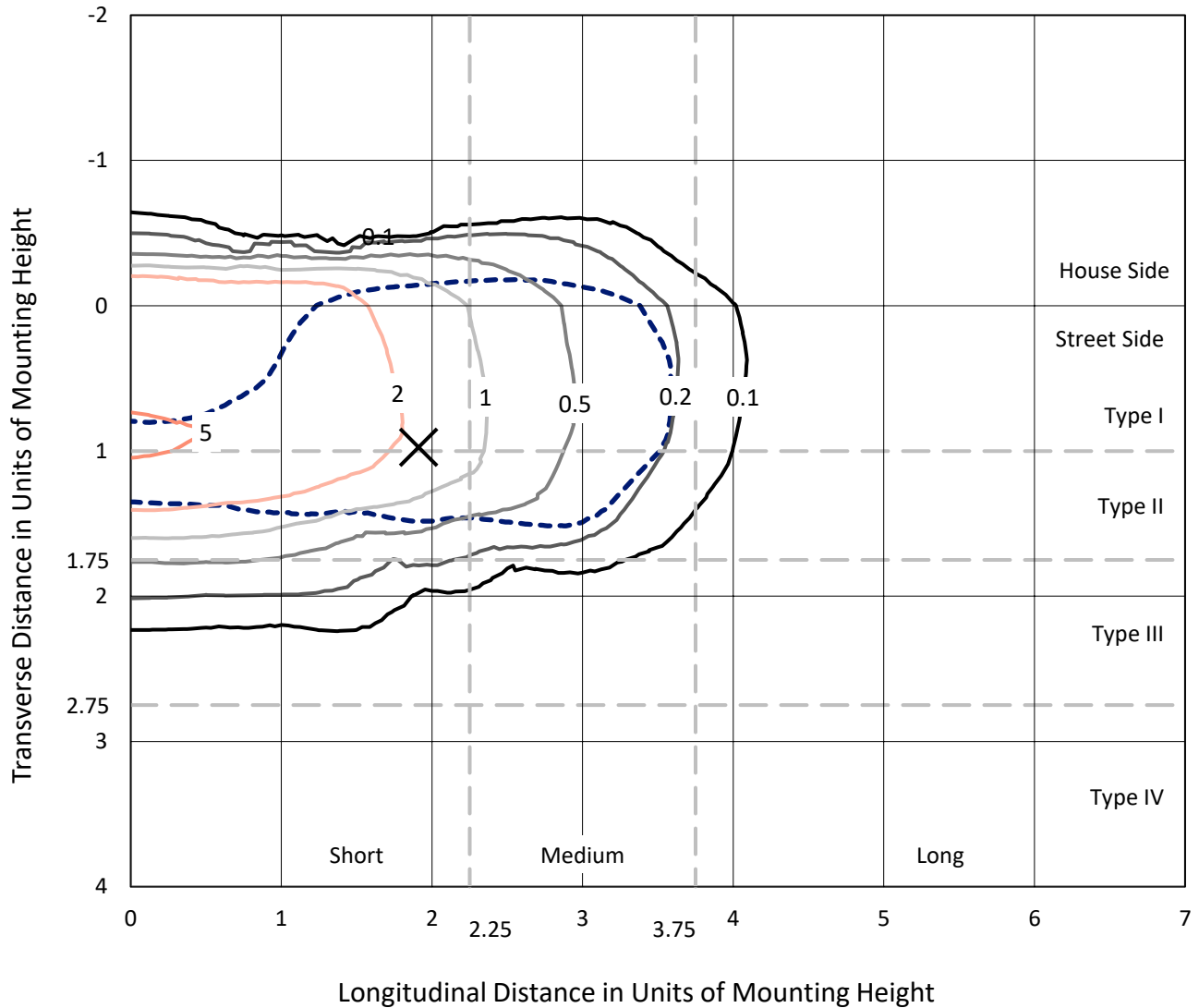
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

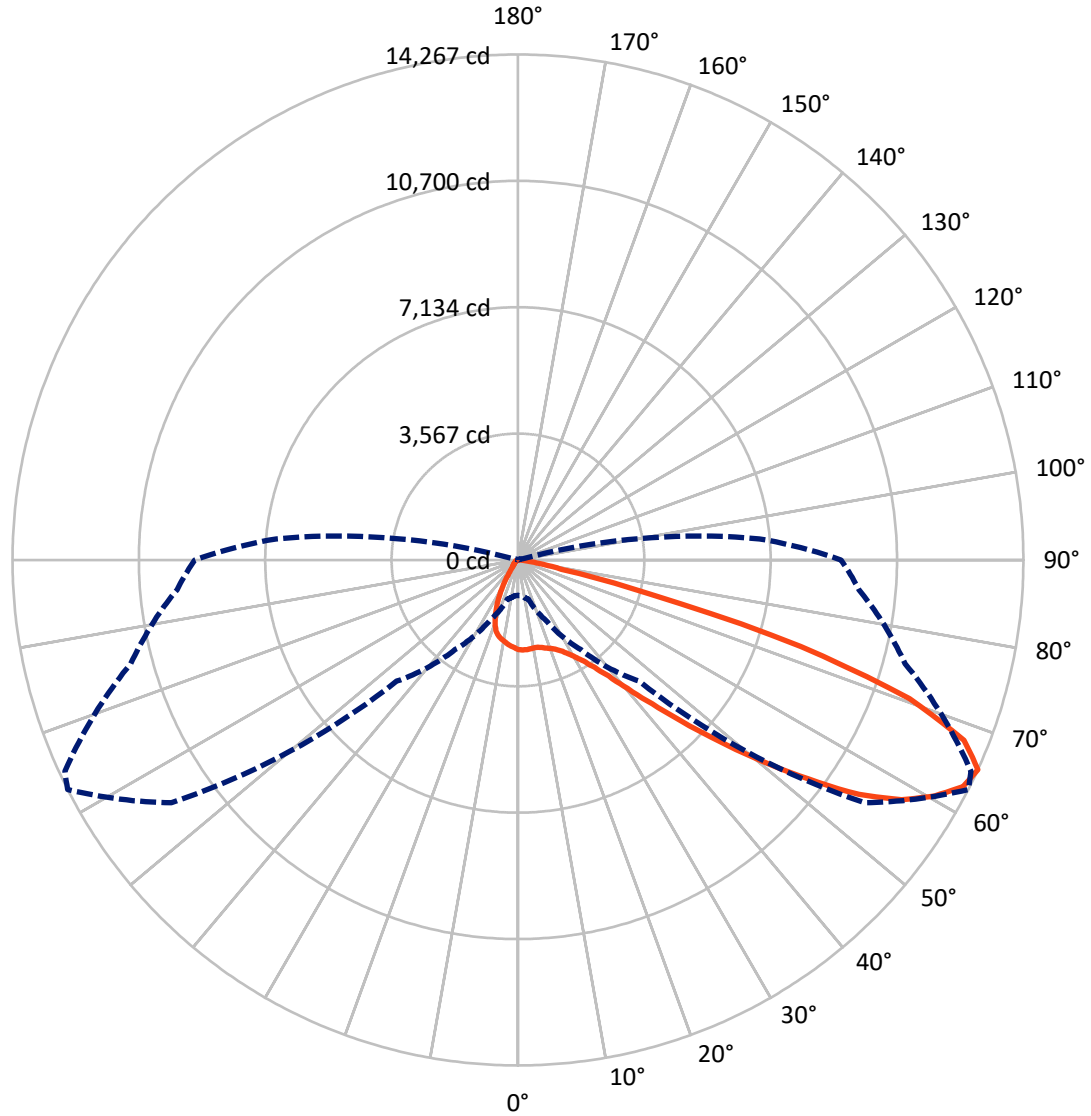
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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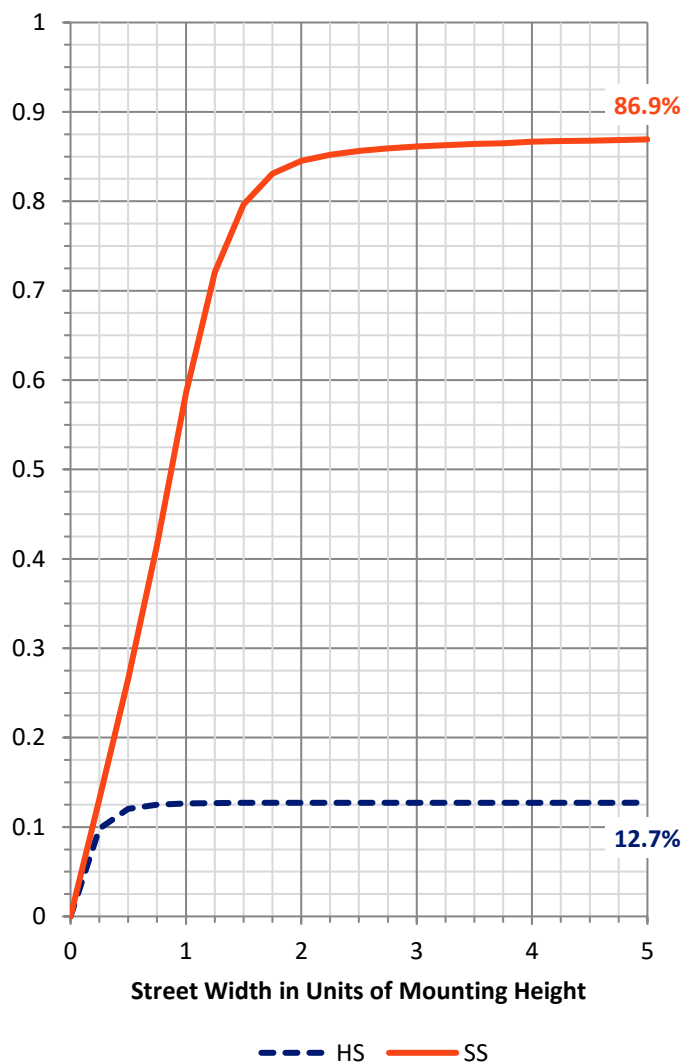
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.3	0.0	2115.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14320.7	0.0	14320.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	16436.0	0.0	16436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.4
10°-20°	569.9	3.5
20°-30°	844.8	5.1
30°-40°	1568.5	9.5
40°-50°	3322.8	20.2
50°-60°	4594.6	28.0
60°-70°	3678.1	22.4
70°-80°	1528.2	9.3
80°-90°	98.1	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°	16436.0	100.0
0°-180°	16436.0	100.0

Coefficient of Utilization



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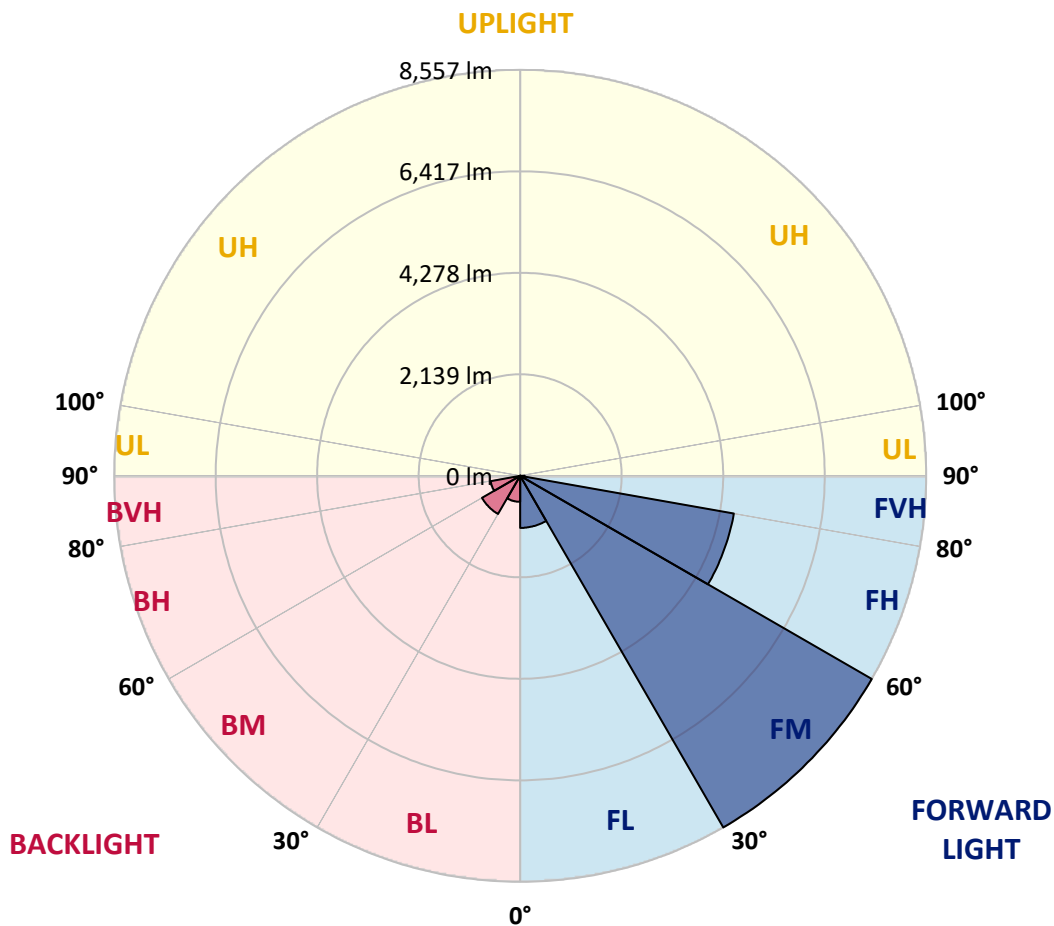
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.5	6.7			
FM (30°-60°)	8556.7	52.1			
FH (60°-80°)	4572.9	27.8			G2/5000
FVH (80°-90°)	93.6	0.6			G1/100
BL (0°-30°)	548.2	3.3	B2/1000		
BM (30°-60°)	929.2	5.7	B1/1000		
BH (60°-80°)	633.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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°	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0
2.5°	2575.4	2569.2	2563.0	2559.9	2559.9	2556.8	2544.4	2541.3	2535.1	2528.9	2522.7
5°	2550.6	2541.3	2538.2	2541.3	2544.4	2550.6	2544.4	2544.4	2538.2	2532.0	2519.6
7.5°	2488.5	2482.3	2485.4	2494.7	2497.8	2519.6	2522.7	2532.0	2532.0	2525.8	2516.5
10°	2414.1	2411.0	2411.0	2426.5	2442.0	2473.0	2494.7	2519.6	2522.7	2522.7	2507.2
12.5°	2358.2	2355.1	2364.4	2383.0	2414.1	2454.4	2491.6	2528.9	2535.1	2538.2	2513.4
15°	2324.1	2324.1	2336.5	2373.7	2417.2	2473.0	2516.5	2566.1	2572.3	2569.2	2535.1
17.5°	2293.1	2296.2	2321.0	2383.0	2432.7	2507.2	2559.9	2615.8	2618.9	2615.8	2559.9
20°	2280.6	2286.8	2324.1	2404.8	2460.6	2544.4	2612.7	2668.5	2671.6	2659.2	2584.7
22.5°	2314.8	2317.9	2364.4	2451.3	2504.0	2597.1	2684.0	2736.8	2739.9	2721.3	2622.0
25°	2432.7	2432.7	2473.0	2547.5	2594.0	2687.1	2780.2	2842.3	2842.3	2820.5	2705.7
27.5°	2708.8	2684.0	2674.7	2696.4	2711.9	2811.2	2910.5	2988.1	2985.0	2954.0	2814.3
30°	3242.5	3180.5	3081.2	2969.5	2913.6	2981.9	3075.0	3174.3	3171.2	3121.5	2947.8
32.5°	4139.3	4049.3	3813.5	3518.7	3279.8	3202.2	3289.1	3397.7	3400.8	3341.8	3161.9
35°	5396.0	5253.2	4831.2	4421.6	3875.5	3580.8	3605.6	3723.5	3760.7	3729.7	3521.8
37.5°	6606.1	6475.8	6072.4	5504.6	4763.0	4161.0	4055.5	4157.9	4201.3	4201.3	3981.0
40°	7825.5	7673.5	7316.7	6745.7	5963.8	5067.1	4688.5	4772.3	4818.8	4828.1	4539.6
42.5°	8803.0	8703.7	8430.6	7986.9	7254.6	6655.7	5600.8	5554.2	5597.6	5563.5	5188.1
45°	9479.4	9401.8	9212.5	9045.0	8688.1	8387.2	6820.2	6506.8	6534.7	6416.8	5917.2
47.5°	9619.0	9532.1	9491.8	9724.5	9979.0	10053.4	8318.9	7639.4	7611.4	7350.8	6674.4
50°	9010.9	9020.2	9169.1	9833.1	10894.3	11564.5	10056.5	8917.8	8815.4	8235.1	7378.7
52.5°	7698.3	7847.3	8222.7	9299.4	11173.6	12663.0	11794.2	10273.7	10115.5	9094.6	7906.2
55°	6022.7	6215.1	6832.6	8070.7	10590.2	13153.2	13258.7	11682.5	11322.5	9740.0	8315.8
57.5°	4477.5	4536.5	5256.3	6385.8	9209.4	12672.3	14009.6	12768.5	12306.1	10255.1	8722.3
60°	2789.5	2826.8	3587.0	4862.3	6975.3	10894.3	14009.6	13516.3	13075.7	10717.5	9094.6
62.5°	1734.5	1746.9	2032.4	3332.5	4741.2	8080.0	13429.4	14096.5	13742.8	11049.5	9414.2
65°	999.1	1011.5	1145.0	1883.5	3084.3	4837.4	11946.2	14267.2	14108.9	11313.2	9662.5
67.5°	729.2	735.4	788.1	1058.1	2016.9	2485.4	8973.6	13581.4	13780.0	11443.5	9656.3
70°	633.0	642.3	710.6	825.4	1455.3	1526.6	4567.5	11729.0	12284.4	11257.4	9367.7
72.5°	487.2	499.6	602.0	775.7	1067.4	1098.4	1653.9	8346.8	9187.7	10093.8	8576.4
75°	335.1	347.5	449.9	639.2	881.2	822.3	909.2	3841.4	4846.7	6770.5	6528.5
77.5°	214.1	217.2	282.4	465.4	760.2	583.3	623.7	1253.6	1759.4	3062.6	3081.2
80°	142.7	145.8	173.8	301.0	521.3	539.9	384.8	580.2	636.1	893.6	620.6
82.5°	86.9	86.9	117.9	189.3	316.5	446.8	251.3	304.1	325.8	344.4	161.4
85°	34.1	34.1	71.4	124.1	198.6	207.9	158.2	176.9	186.2	201.7	74.5
87.5°	9.3	9.3	40.3	68.3	86.9	96.2	96.2	86.9	93.1	114.8	37.2
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°	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0	2532.0
2.5°	2519.6	2510.3	2497.8	2485.4	2473.0	2463.7	2454.4	2454.4	2448.2	2438.9	2432.7
5°	2513.4	2497.8	2469.9	2448.2	2414.1	2389.2	2370.6	2355.1	2345.8	2324.1	2321.0
7.5°	2504.0	2485.4	2445.1	2401.7	2345.8	2302.4	2258.9	2227.9	2196.9	2172.0	2165.8
10°	2488.5	2466.8	2407.9	2345.8	2268.2	2187.6	2085.2	1967.2	1858.6	1796.6	1778.0
12.5°	2488.5	2460.6	2383.0	2299.3	2187.6	1989.0	1728.3	1467.7	1266.0	1176.0	1151.2
15°	2504.0	2466.8	2364.4	2249.6	2041.7	1638.3	1216.3	871.9	651.6	583.3	567.8
17.5°	2519.6	2466.8	2336.5	2181.3	1774.9	1188.4	691.9	459.2	387.9	372.3	372.3
20°	2525.8	2460.6	2299.3	2054.1	1418.0	738.5	412.7	344.4	316.5	307.2	307.2
22.5°	2550.6	2463.7	2271.3	1871.1	1030.2	434.4	325.8	288.6	260.6	251.3	251.3
25°	2612.7	2500.9	2277.5	1638.3	660.9	328.9	276.2	238.9	211.0	198.6	198.6
27.5°	2711.9	2584.7	2311.7	1368.4	415.8	282.4	232.7	192.4	170.7	158.2	158.2
30°	2823.6	2677.8	2327.2	1058.1	310.3	238.9	189.3	152.0	136.5	127.2	124.1
32.5°	3019.1	2839.2	2314.8	726.1	254.4	201.7	152.0	121.0	108.6	105.5	105.5
35°	3332.5	3121.5	2289.9	456.1	211.0	161.4	121.0	99.3	90.0	86.9	83.8
37.5°	3757.6	3534.2	2215.5	301.0	173.8	127.2	99.3	83.8	74.5	71.4	71.4
40°	4275.8	4005.9	2072.7	229.6	148.9	102.4	83.8	71.4	65.2	62.1	62.1
42.5°	4868.5	4530.2	1846.2	198.6	124.1	86.9	71.4	59.0	55.9	52.7	52.7
45°	5517.0	5079.5	1532.8	176.9	105.5	71.4	59.0	52.7	46.5	46.5	43.4
47.5°	6205.8	5631.8	1179.1	155.1	90.0	62.1	52.7	43.4	40.3	37.2	37.2
50°	6869.8	6125.1	828.5	133.4	74.5	52.7	43.4	37.2	34.1	31.0	31.0
52.5°	7338.4	6423.0	586.5	114.8	62.1	46.5	34.1	27.9	24.8	24.8	24.8
55°	7713.8	6609.2	409.6	96.2	52.7	40.3	27.9	21.7	21.7	18.6	18.6
57.5°	8067.6	6730.2	301.0	80.7	43.4	31.0	21.7	15.5	15.5	12.4	12.4
60°	8433.7	6795.4	229.6	65.2	37.2	24.8	15.5	12.4	9.3	9.3	9.3
62.5°	8803.0	6835.7	176.9	52.7	31.0	18.6	12.4	9.3	6.2	3.1	3.1
65°	9125.7	6848.1	136.5	40.3	24.8	12.4	9.3	3.1	0.0	0.0	0.0
67.5°	9221.8	6705.4	105.5	31.0	18.6	9.3	6.2	0.0	0.0	0.0	0.0
70°	8961.2	6326.8	80.7	24.8	15.5	6.2	3.1	0.0	0.0	0.0	0.0
72.5°	7952.8	5306.0	62.1	15.5	12.4	6.2	3.1	0.0	0.0	0.0	0.0
75°	5690.7	2829.9	43.4	12.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	2618.9	1095.3	31.0	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	512.0	273.1	12.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.9	46.5	6.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.3	15.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	6.2	3.1	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)