

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: P399934

Luminaire Tested: **ARCH-L-PA3-210-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399934
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-PA3-210-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA 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: 21838 lumens
Efficiency: N/A
Efficacy: 103.5 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

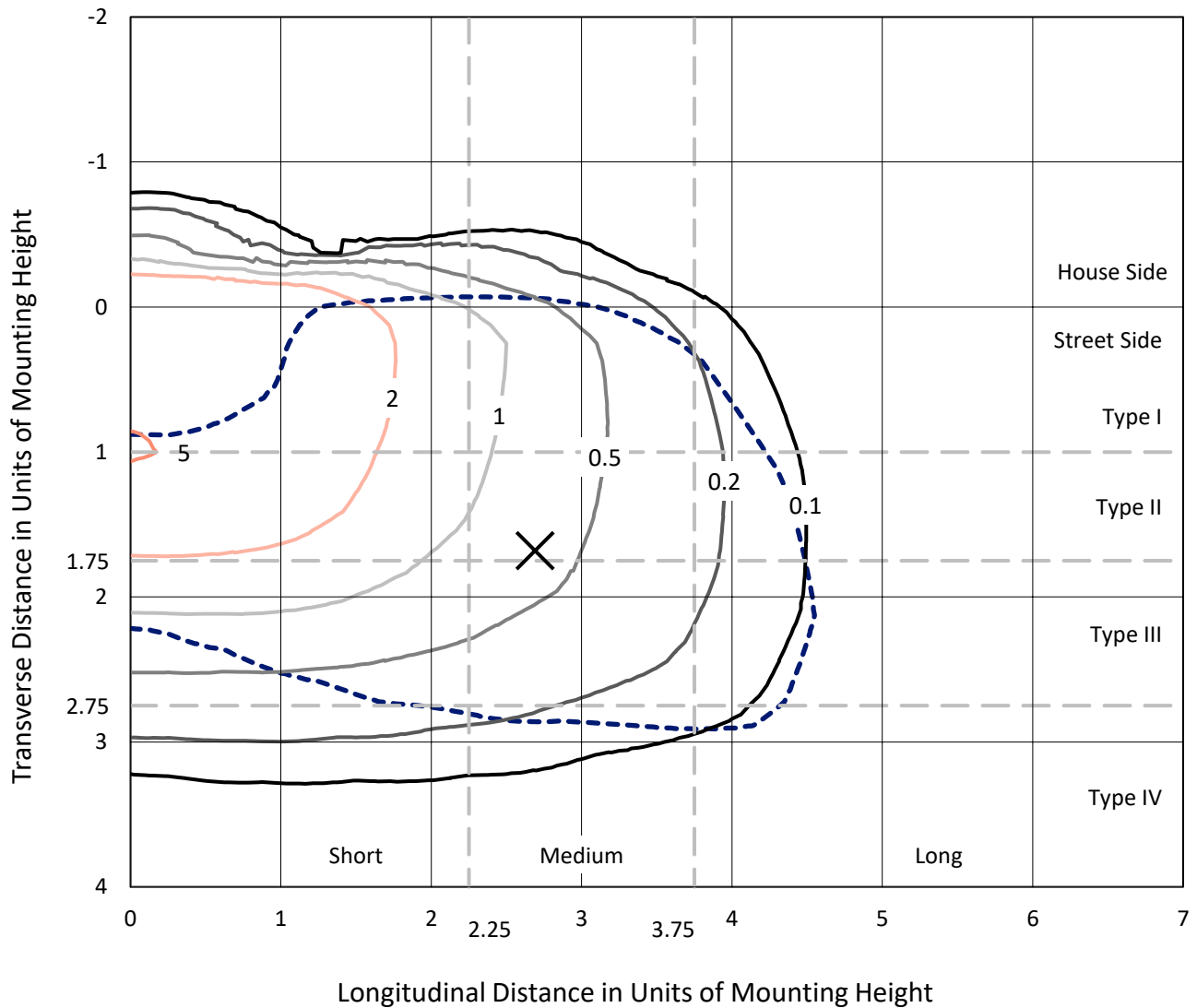
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

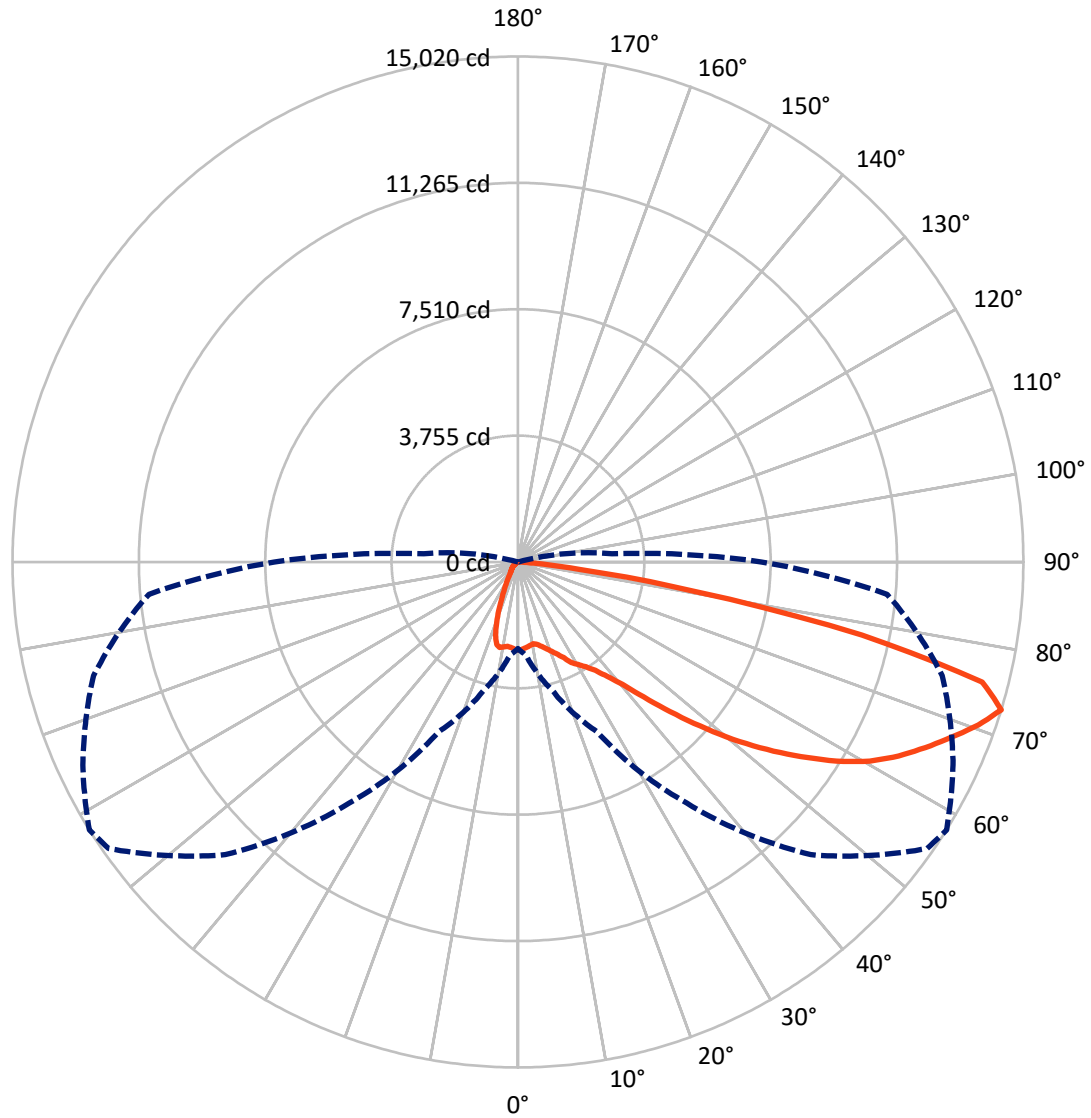
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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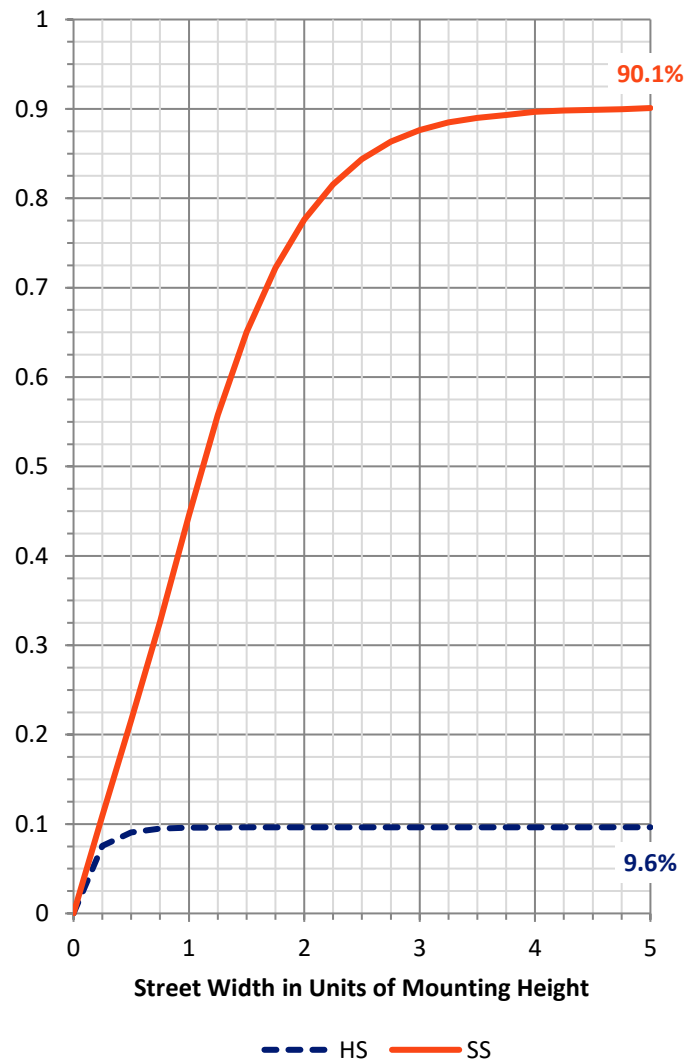
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2123.6	0.0	2123.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	19714.4	0.0	19714.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	21838.0	0.0	21838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	1.1
10°-20°	626.4	2.9
20°-30°	984.0	4.5
30°-40°	1697.0	7.8
40°-50°	3228.6	14.8
50°-60°	5113.1	23.4
60°-70°	5966.4	27.3
70°-80°	3736.8	17.1
80°-90°	245.3	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°	21838.0	100.0
0°-180°	21838.0	100.0



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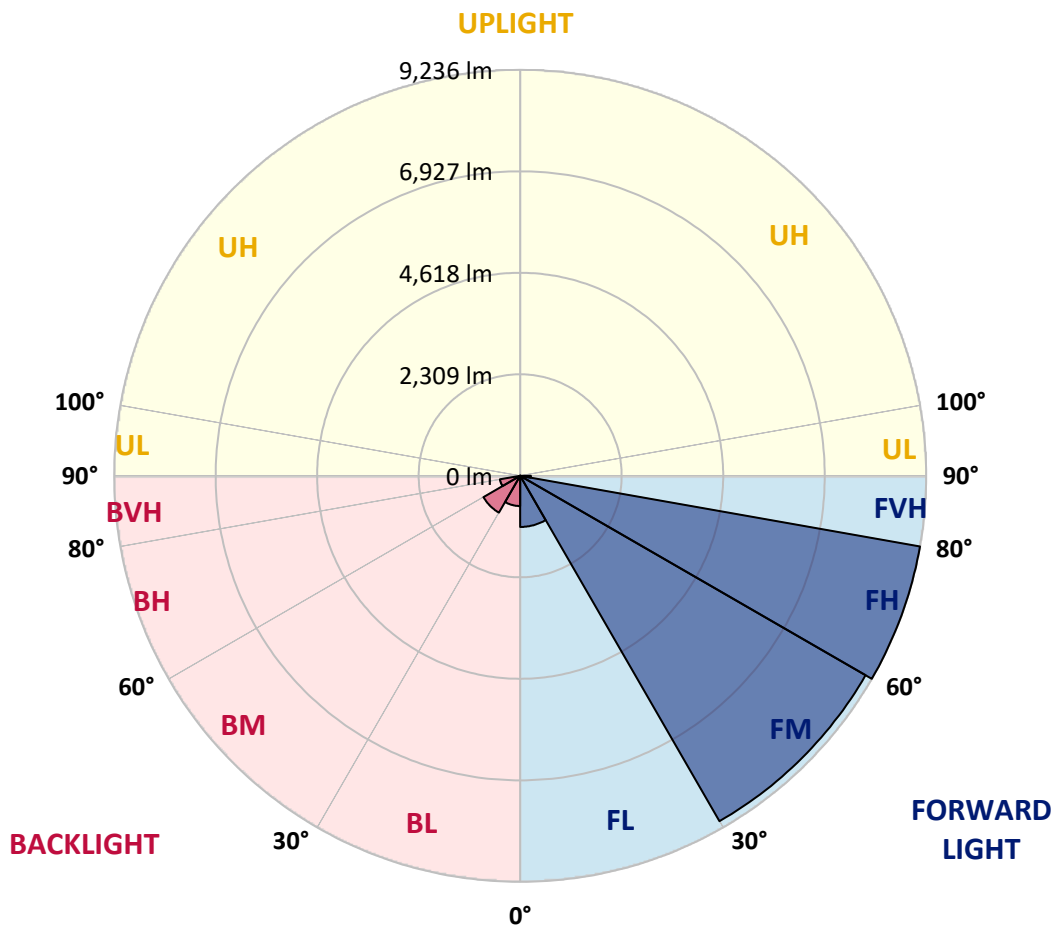
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.2	5.3			
FM (30°-60°)	9072.4	41.5			
FH (60°-80°)	9235.9	42.3			G4/12000
FVH (80°-90°)	242.9	1.1			G3/500
BL (0°-30°)	687.7	3.1	B2/1000		
BM (30°-60°)	966.3	4.4	B1/1000		
BH (60°-80°)	467.3	2.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4
2.5°	2608.7	2597.0	2593.1	2589.2	2593.1	2597.0	2585.3	2597.0	2589.2	2593.1	2600.9
5°	2515.0	2503.3	2499.4	2503.3	2515.0	2534.5	2542.3	2554.0	2554.0	2565.8	2569.7
7.5°	2409.5	2401.7	2397.8	2405.6	2429.1	2472.0	2495.5	2511.1	2526.7	2550.1	2573.6
10°	2351.0	2347.1	2343.2	2354.9	2378.3	2417.4	2448.6	2472.0	2530.6	2597.0	2640.0
12.5°	2311.9	2311.9	2319.7	2343.2	2374.4	2405.6	2479.8	2511.1	2600.9	2702.4	2761.0
15°	2280.7	2280.7	2292.4	2335.3	2378.3	2452.5	2561.8	2597.0	2702.4	2827.4	2905.5
17.5°	2257.2	2265.0	2272.9	2315.8	2397.8	2522.8	2651.7	2702.4	2831.3	2968.0	3053.9
20°	2261.1	2269.0	2272.9	2315.8	2433.0	2604.8	2768.8	2827.4	2975.8	3120.3	3206.2
22.5°	2284.6	2296.3	2300.2	2358.8	2495.5	2690.7	2901.6	2968.0	3128.1	3280.4	3346.8
25°	2382.2	2390.0	2366.6	2417.4	2585.3	2823.5	3073.4	3143.7	3303.8	3444.4	3499.1
27.5°	2714.2	2722.0	2593.1	2534.5	2655.6	2932.8	3284.3	3382.0	3581.1	3674.8	3682.7
30°	3432.7	3440.5	3186.7	2909.4	2823.5	3026.6	3401.5	3538.2	3795.9	3901.4	3854.5
32.5°	4358.3	4350.5	4002.9	3592.8	3221.8	3190.6	3569.4	3713.9	3995.1	4096.6	4061.5
35°	5287.7	5299.4	5002.6	4385.6	3854.5	3499.1	3784.2	3952.1	4291.9	4436.4	4373.9
37.5°	5924.3	6002.4	5873.5	5205.7	4631.6	4069.3	4131.8	4311.4	4737.1	4932.3	4799.6
40°	6822.5	6803.0	6490.5	5998.5	5490.8	4912.8	4694.1	4780.0	5268.2	5529.8	5322.9
42.5°	8029.2	7990.2	7459.0	6978.7	6412.4	5939.9	5494.7	5479.1	5877.4	6182.0	5881.3
45°	9122.7	9064.1	8700.9	8236.2	7615.2	7072.4	6471.0	6334.3	6611.6	6869.3	6517.9
47.5°	9993.6	9895.9	9638.2	9392.1	9239.8	8396.3	7494.2	7287.2	7427.8	7619.2	7123.2
50°	11024.5	10755.1	10380.2	10231.8	10548.1	9895.9	8478.3	8279.1	8271.3	8380.7	7748.0
52.5°	11493.2	11005.0	10794.1	10919.1	11477.5	11290.1	9540.5	9255.5	9142.2	9153.9	8329.9
55°	10926.9	10872.2	10985.5	11376.0	12106.3	11996.9	10559.8	10208.3	10040.4	9829.5	8888.4
57.5°	10282.5	10450.5	10899.6	11645.5	12903.0	12735.0	11563.5	11165.1	10856.6	10372.4	9509.3
60°	9688.9	9860.8	10602.8	11708.0	13340.4	13445.8	12399.2	12020.4	11563.5	10926.9	10192.7
62.5°	8786.8	8919.6	9962.3	11618.1	13149.0	13859.8	12981.1	12696.0	12270.3	11454.1	10977.7
65°	7771.5	7857.4	8888.4	10899.6	12774.1	13812.9	13461.4	13301.3	12887.3	12004.8	11754.8
67.5°	6658.5	6760.0	7619.2	9606.9	12039.9	13594.2	13914.4	13898.8	13426.3	12614.0	12317.2
70°	5377.5	5385.3	6096.1	7966.7	10759.0	13156.8	14476.8	14511.9	13941.8	13070.9	12340.6
72.5°	2573.6	2784.4	3952.1	5561.1	8743.9	12297.7	14843.9	15019.6	14265.9	13055.3	11008.9
75°	589.7	609.2	1152.1	2643.9	5127.6	9439.0	13926.1	14254.2	13477.0	11290.1	7755.8
77.5°	214.8	226.5	324.1	773.2	1972.2	4877.7	9966.2	10446.6	9962.3	7298.9	3667.0
80°	144.5	140.6	167.9	343.7	906.0	1382.5	5096.4	5381.4	4912.8	2491.6	878.7
82.5°	74.2	78.1	117.2	191.4	609.2	480.3	1702.7	1851.1	1523.0	499.9	164.0
85°	35.1	35.1	66.4	121.1	257.7	167.9	378.8	456.9	410.1	218.7	54.7
87.5°	35.1	35.1	62.5	78.1	132.8	70.3	93.7	117.2	109.3	117.2	19.5
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°	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4
2.5°	2600.9	2597.0	2593.1	2600.9	2597.0	2604.8	2604.8	2612.6	2612.6	2604.8	2600.9
5°	2565.8	2557.9	2550.1	2550.1	2546.2	2554.0	2577.5	2597.0	2600.9	2589.2	2585.3
7.5°	2569.7	2569.7	2561.8	2546.2	2518.9	2518.9	2518.9	2542.3	2554.0	2546.2	2542.3
10°	2640.0	2643.9	2624.3	2589.2	2542.3	2499.4	2417.4	2296.3	2183.0	2151.8	2140.1
12.5°	2761.0	2764.9	2725.9	2663.4	2565.8	2311.9	1999.5	1710.5	1487.9	1425.4	1413.7
15°	2905.5	2909.4	2839.1	2737.6	2440.8	1851.1	1386.4	1058.3	863.1	816.2	812.3
17.5°	3053.9	3046.1	2940.7	2745.4	2069.8	1312.2	843.5	675.6	624.8	613.1	617.0
20°	3198.4	3175.0	3030.5	2600.9	1593.3	859.2	617.0	578.0	566.3	558.5	558.5
22.5°	3331.2	3284.3	3104.7	2315.8	1116.9	617.0	550.6	542.8	527.2	515.5	511.6
25°	3464.0	3397.6	3151.5	1944.8	749.8	538.9	519.4	503.8	484.3	468.6	464.7
27.5°	3624.1	3530.4	3128.1	1476.2	562.4	499.9	484.3	460.8	433.5	410.1	402.2
30°	3776.4	3670.9	2995.3	1019.3	480.3	460.8	437.4	402.2	367.1	339.8	331.9
32.5°	3967.7	3846.7	2757.1	667.8	417.9	402.2	378.8	335.9	289.0	257.7	249.9
35°	4241.1	4104.4	2452.5	468.6	367.1	339.8	308.5	261.7	210.9	187.5	183.5
37.5°	4623.8	4440.3	2069.8	378.8	324.1	285.1	238.2	191.4	156.2	136.7	132.8
40°	5092.5	4811.3	1644.1	335.9	289.0	238.2	179.6	136.7	113.3	97.6	97.6
42.5°	5600.1	5158.8	1210.6	308.5	253.8	195.3	132.8	97.6	82.0	74.2	70.3
45°	6123.4	5467.4	816.2	285.1	222.6	148.4	93.7	66.4	54.7	54.7	50.8
47.5°	6666.3	5674.3	527.2	257.7	187.5	109.3	62.5	46.9	39.1	39.1	39.1
50°	7205.2	5783.7	374.9	234.3	152.3	74.2	46.9	35.1	31.2	31.2	31.2
52.5°	7595.7	5713.4	300.7	203.1	117.2	54.7	35.1	27.3	23.4	23.4	23.4
55°	7935.5	5592.3	261.7	175.7	85.9	39.1	27.3	23.4	19.5	19.5	19.5
57.5°	8283.0	5436.1	234.3	148.4	62.5	27.3	19.5	15.6	15.6	15.6	15.6
60°	8599.4	5170.6	203.1	117.2	43.0	19.5	15.6	11.7	11.7	11.7	11.7
62.5°	8907.9	4944.1	175.7	89.8	31.2	15.6	7.8	7.8	3.9	3.9	3.9
65°	9083.6	4639.4	140.6	58.6	19.5	11.7	3.9	3.9	0.0	0.0	0.0
67.5°	9029.0	4276.3	97.6	35.1	11.7	7.8	3.9	0.0	0.0	0.0	0.0
70°	8650.1	3788.1	58.6	19.5	11.7	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	7244.3	2804.0	35.1	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	4838.6	1288.7	19.5	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	2214.3	386.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	445.2	101.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.7	19.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	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)