

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: P400206

Luminaire Tested: **ARCH-L-PA3-250-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA 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: 20231 lumens
Efficiency: N/A
Efficacy: 80.6 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

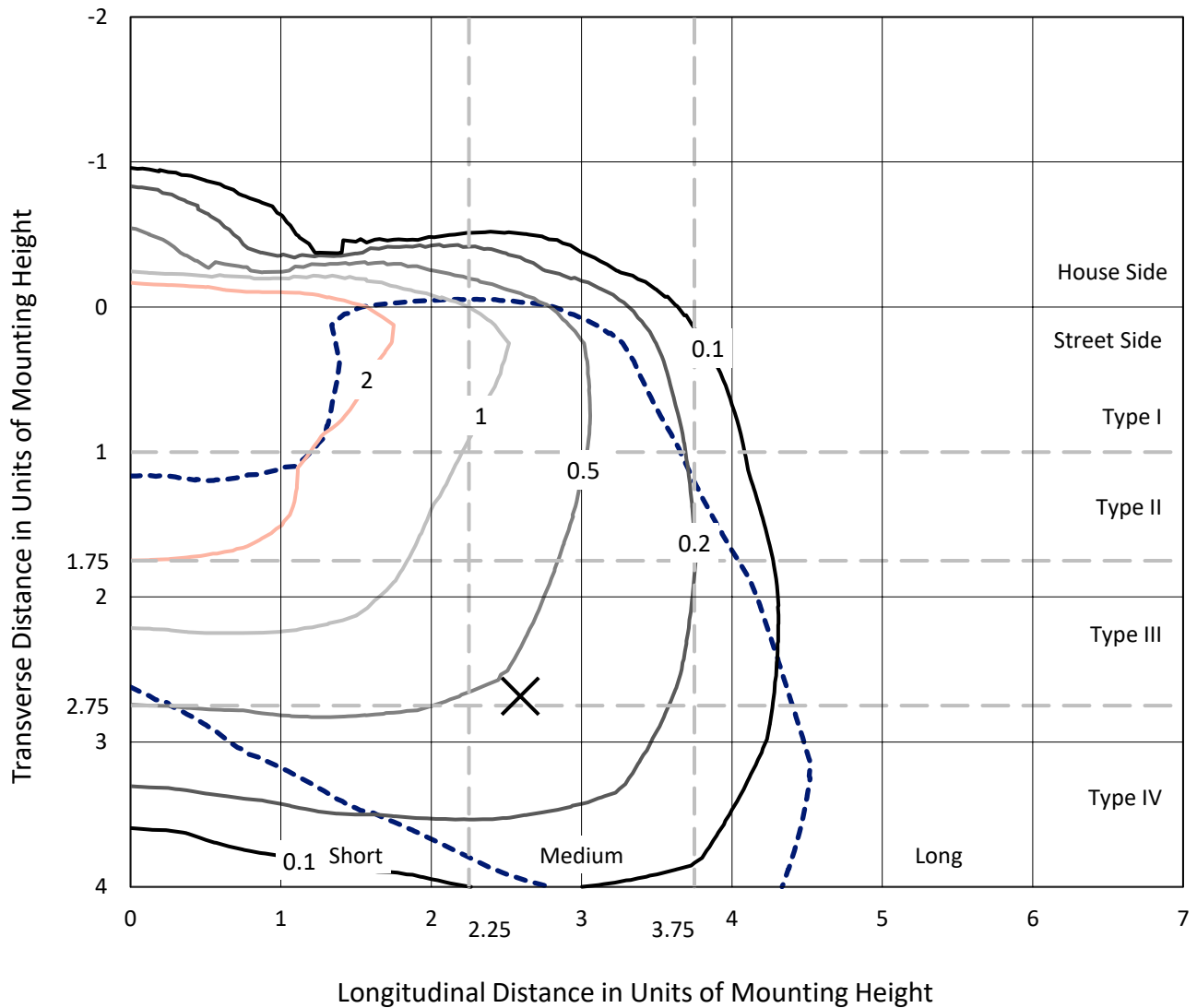
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

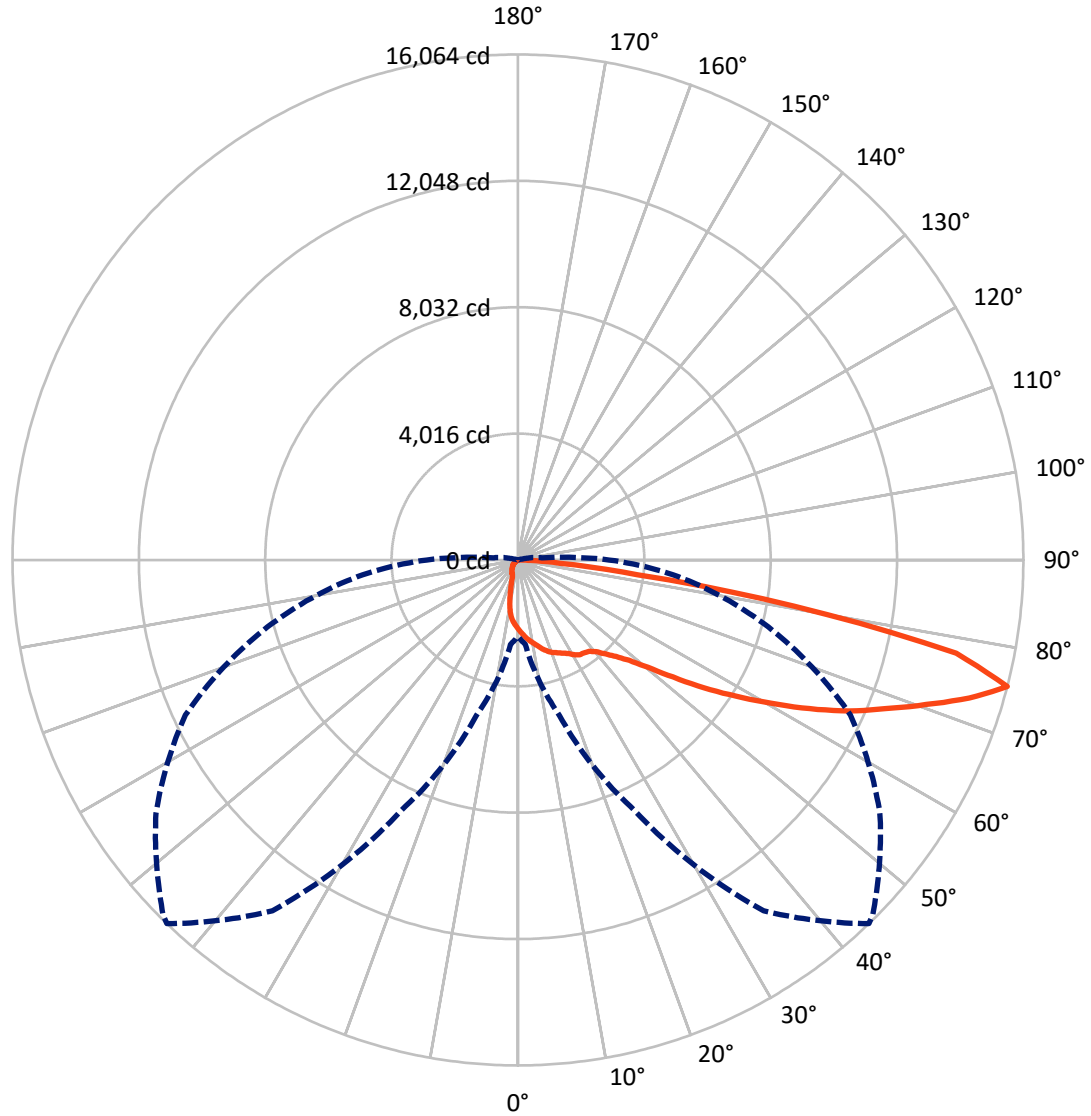
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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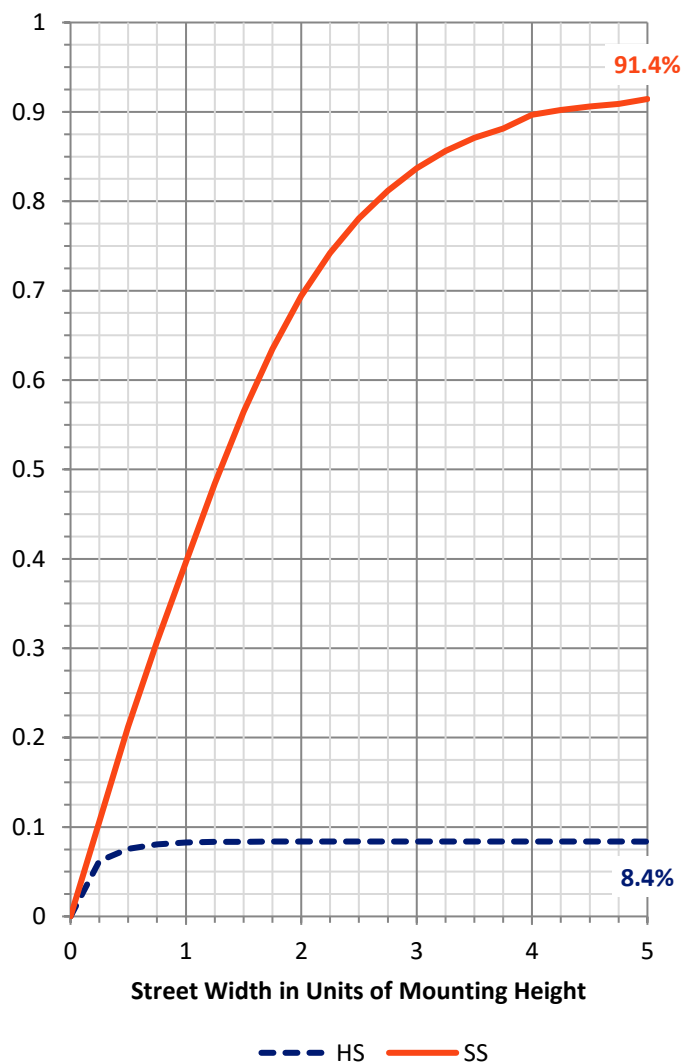
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.1	0.0	1706.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18524.9	0.0	18524.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	20231.0	0.0	20231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.0
10°-20°	581.9	2.9
20°-30°	960.3	4.7
30°-40°	1393.8	6.9
40°-50°	2265.7	11.2
50°-60°	3994.3	19.7
60°-70°	5740.6	28.4
70°-80°	4596.9	22.7
80°-90°	489.8	2.4
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°	20231.0	100.0
0°-180°	20231.0	100.0

Coefficient of Utilization



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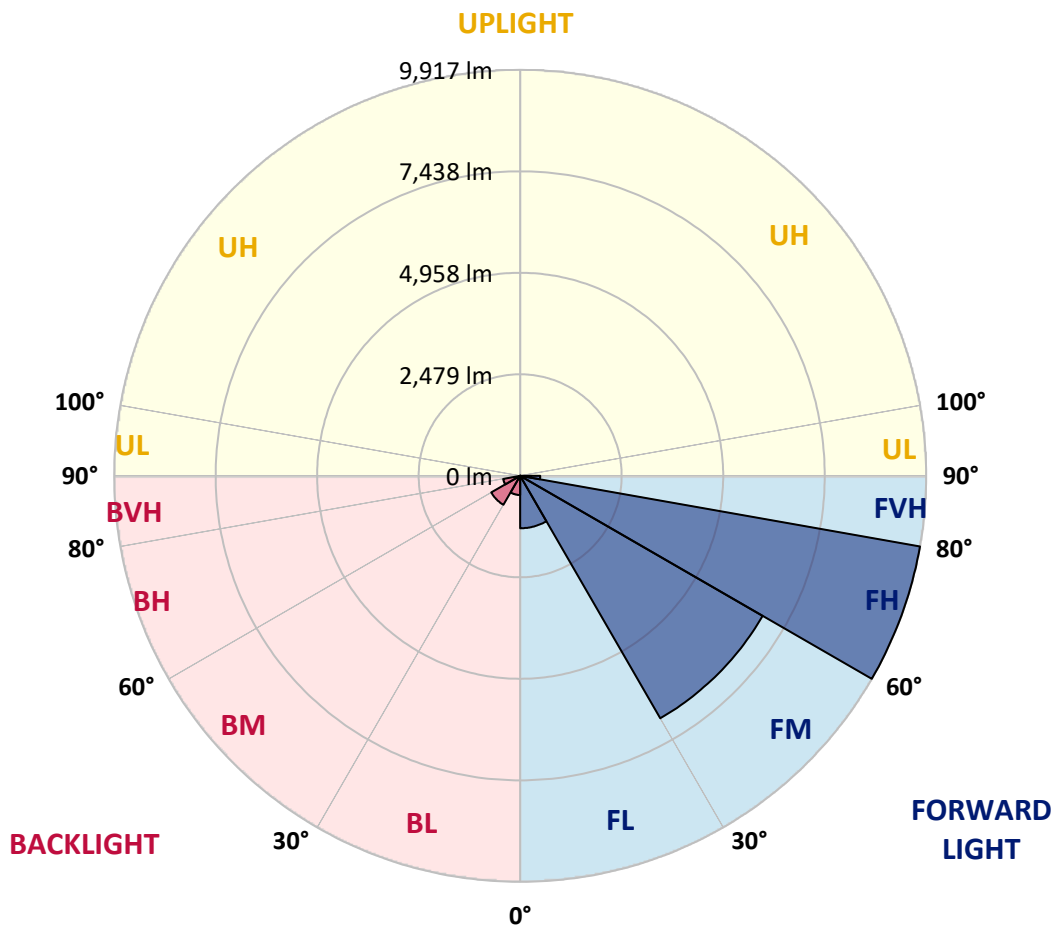
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.2	6.3			
FM (30°-60°)	6838.3	33.8			
FH (60°-80°)	9916.9	49.0			G4/12000
FVH (80°-90°)	488.5	2.4			G3/500
BL (0°-30°)	468.7	2.3	B1/500		
BM (30°-60°)	815.6	4.0	B1/1000		
BH (60°-80°)	420.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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°	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1
2.5°	2399.9	2396.1	2385.0	2366.3	2347.6	2329.0	2325.2	2295.4	2261.8	2235.7	2213.3
5°	2612.6	2608.9	2590.2	2549.2	2508.1	2459.6	2455.9	2385.0	2321.5	2250.6	2190.9
7.5°	2832.8	2825.4	2791.8	2728.3	2657.4	2582.8	2575.3	2470.8	2377.5	2284.2	2198.3
10°	3004.5	2997.1	2948.5	2873.9	2776.8	2683.5	2672.3	2564.1	2470.8	2351.4	2235.7
12.5°	3172.5	3157.5	3094.1	3012.0	2892.5	2803.0	2791.8	2679.8	2567.8	2444.7	2302.8
15°	3329.2	3310.6	3250.8	3146.3	3019.4	2933.6	2926.1	2806.7	2691.0	2549.2	2392.4
17.5°	3437.5	3430.0	3359.1	3243.4	3120.2	3049.3	3041.8	2918.7	2803.0	2653.7	2485.7
20°	3493.4	3493.4	3426.3	3299.4	3187.4	3138.9	3127.7	3012.0	2900.0	2758.2	2582.8
22.5°	3504.6	3515.8	3463.6	3325.5	3243.4	3202.3	3194.9	3094.1	2985.9	2855.2	2691.0
25°	3527.0	3527.0	3500.9	3351.6	3291.9	3280.7	3277.0	3187.4	3090.4	2959.7	2799.2
27.5°	3553.2	3553.2	3534.5	3388.9	3366.6	3362.8	3359.1	3318.0	3239.7	3086.6	2926.1
30°	3620.3	3624.1	3609.2	3463.6	3448.7	3489.7	3497.2	3474.8	3377.7	3187.4	3056.8
32.5°	3788.3	3754.7	3713.7	3515.8	3542.0	3594.2	3598.0	3553.2	3448.7	3295.6	3213.5
35°	4210.1	4012.2	3825.6	3560.6	3571.8	3624.1	3631.5	3627.8	3564.4	3433.7	3392.7
37.5°	4601.9	4322.0	4057.0	3665.1	3627.8	3683.8	3698.7	3762.2	3713.7	3624.1	3635.3
40°	4829.6	4721.4	4534.8	3952.5	3739.8	3825.6	3840.6	3937.6	3918.9	3881.6	3952.5
42.5°	5531.3	5538.8	5337.2	4381.7	3945.1	4083.2	4101.8	4180.2	4206.3	4225.0	4396.7
45°	6344.9	6371.1	6322.5	5154.3	4333.2	4378.0	4404.1	4508.6	4605.7	4725.1	5038.6
47.5°	7322.8	7300.4	7121.3	6098.6	5008.8	4758.7	4777.4	4978.9	5146.9	5408.1	5856.0
50°	8188.7	8244.7	7905.0	6979.4	5960.5	5359.6	5340.9	5538.8	5841.1	6206.8	6770.4
52.5°	9062.1	8980.0	8520.9	7852.8	7087.7	6177.0	6121.0	6229.2	6654.7	7087.7	7666.2
55°	9293.5	9300.9	9144.2	8808.3	8028.2	7169.8	7076.5	7069.0	7599.0	7893.9	8606.7
57.5°	9748.8	9767.5	9804.8	9872.0	9502.5	8162.6	8065.5	7961.0	8476.1	8647.8	9551.0
60°	10211.6	10234.0	10461.7	10823.7	10577.4	9233.8	9129.2	8882.9	9170.3	9401.7	10543.8
62.5°	10151.9	10308.7	10969.3	11689.6	11659.8	10409.4	10278.8	9685.4	9868.2	10069.8	11454.5
65°	9166.6	9334.5	10820.0	11928.5	12745.9	11570.2	11357.4	10513.9	10525.1	10767.7	12331.6
67.5°	8285.7	8468.6	9886.9	11827.7	13462.5	12611.5	12391.3	11346.2	11170.8	11573.9	12801.9
70°	7778.2	7961.0	9144.2	11514.2	13664.0	13764.8	13574.4	12298.0	11939.7	12309.2	12275.6
72.5°	6087.4	6374.8	8196.2	10917.0	13880.5	15000.2	14850.9	13503.5	12592.8	11540.3	9345.7
75°	2426.0	2691.0	5117.0	8785.9	13608.0	16063.9	15948.2	14044.7	11656.0	8241.0	4784.8
77.5°	731.5	783.8	1422.0	4344.4	9976.5	14242.5	14205.2	11809.1	8248.4	3825.6	1306.3
80°	242.6	268.7	436.7	1198.1	4553.4	8897.8	9065.8	7524.4	3747.2	877.1	265.0
82.5°	100.8	112.0	220.2	481.5	1612.4	3833.1	3777.1	3370.3	1306.3	544.9	97.0
85°	26.1	33.6	100.8	276.2	589.7	1321.2	1388.4	1130.9	739.0	451.6	29.9
87.5°	0.0	0.0	48.5	112.0	265.0	399.4	418.0	343.4	418.0	339.6	14.9
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°	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1
2.5°	2194.6	2175.9	2142.4	2120.0	2090.1	2082.6	2067.7	2049.0	2045.3	2026.6	2030.4
5°	2157.3	2127.4	2067.7	2026.6	1978.1	1963.2	1937.1	1918.4	1903.5	1877.4	1881.1
7.5°	2149.8	2105.0	2022.9	1944.5	1866.2	1810.2	1731.8	1668.3	1616.1	1560.1	1571.3
10°	2175.9	2120.0	2004.3	1896.0	1754.2	1575.0	1369.8	1235.4	1168.2	1101.0	1108.5
12.5°	2228.2	2161.0	2011.7	1847.5	1560.1	1254.1	970.4	787.5	739.0	709.1	712.9
15°	2306.6	2224.5	2034.1	1754.2	1298.8	907.0	645.7	567.3	586.0	597.2	597.2
17.5°	2388.7	2295.4	2052.8	1586.2	1004.0	634.5	526.3	518.8	544.9	571.0	571.0
20°	2489.5	2370.0	2056.5	1373.5	724.1	515.1	496.4	496.4	515.1	544.9	544.9
22.5°	2586.5	2452.1	2022.9	1130.9	552.4	477.7	477.7	477.7	488.9	518.8	522.5
25°	2702.2	2552.9	1952.0	873.4	474.0	455.3	455.3	459.1	466.5	492.7	496.4
27.5°	2825.4	2657.4	1832.6	638.2	432.9	429.2	432.9	436.7	440.4	466.5	474.0
30°	2967.2	2773.1	1679.5	477.7	395.6	395.6	406.8	414.3	414.3	436.7	444.1
32.5°	3131.4	2926.1	1496.7	395.6	358.3	354.6	373.2	384.4	384.4	403.1	410.6
35°	3336.7	3082.9	1276.5	350.8	328.4	321.0	328.4	347.1	354.6	369.5	373.2
37.5°	3609.2	3269.5	1041.3	324.7	306.1	291.1	291.1	294.9	309.8	324.7	328.4
40°	3956.3	3474.8	809.9	306.1	283.7	268.7	257.5	253.8	250.1	261.3	268.7
42.5°	4392.9	3706.2	604.6	287.4	265.0	242.6	227.7	212.7	194.1	190.3	194.1
45°	4952.8	3989.8	447.9	272.5	253.8	220.2	194.1	168.0	134.4	123.2	126.9
47.5°	5613.4	4284.7	350.8	257.5	246.3	194.1	160.5	115.7	82.1	74.6	78.4
50°	6315.1	4568.4	298.6	238.9	231.4	168.0	115.7	70.9	48.5	48.5	52.3
52.5°	6912.3	4728.8	272.5	223.9	209.0	138.1	74.6	41.1	29.9	29.9	33.6
55°	7490.8	4814.7	253.8	209.0	179.2	97.0	41.1	26.1	18.7	18.7	18.7
57.5°	8087.9	4852.0	231.4	190.3	141.8	59.7	22.4	14.9	11.2	11.2	11.2
60°	8617.9	4781.1	197.8	156.8	93.3	29.9	11.2	11.2	7.5	3.7	3.7
62.5°	9062.1	4646.7	138.1	112.0	56.0	14.9	7.5	3.7	0.0	0.0	0.0
65°	9334.5	4430.3	89.6	74.6	33.6	11.2	3.7	0.0	0.0	0.0	0.0
67.5°	9256.1	4023.4	56.0	48.5	14.9	7.5	3.7	0.0	0.0	0.0	0.0
70°	8352.9	3299.4	41.1	29.9	11.2	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	6020.2	2231.9	29.9	18.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2896.3	795.0	18.7	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	709.1	175.4	11.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.8	33.6	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	3.7	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)