

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: P400132

Luminaire Tested: **ARCH-L-PA3-240-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400132
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-PA3-240-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1030mA 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: 20031 lumens
Efficiency: N/A
Efficacy: 82.8 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

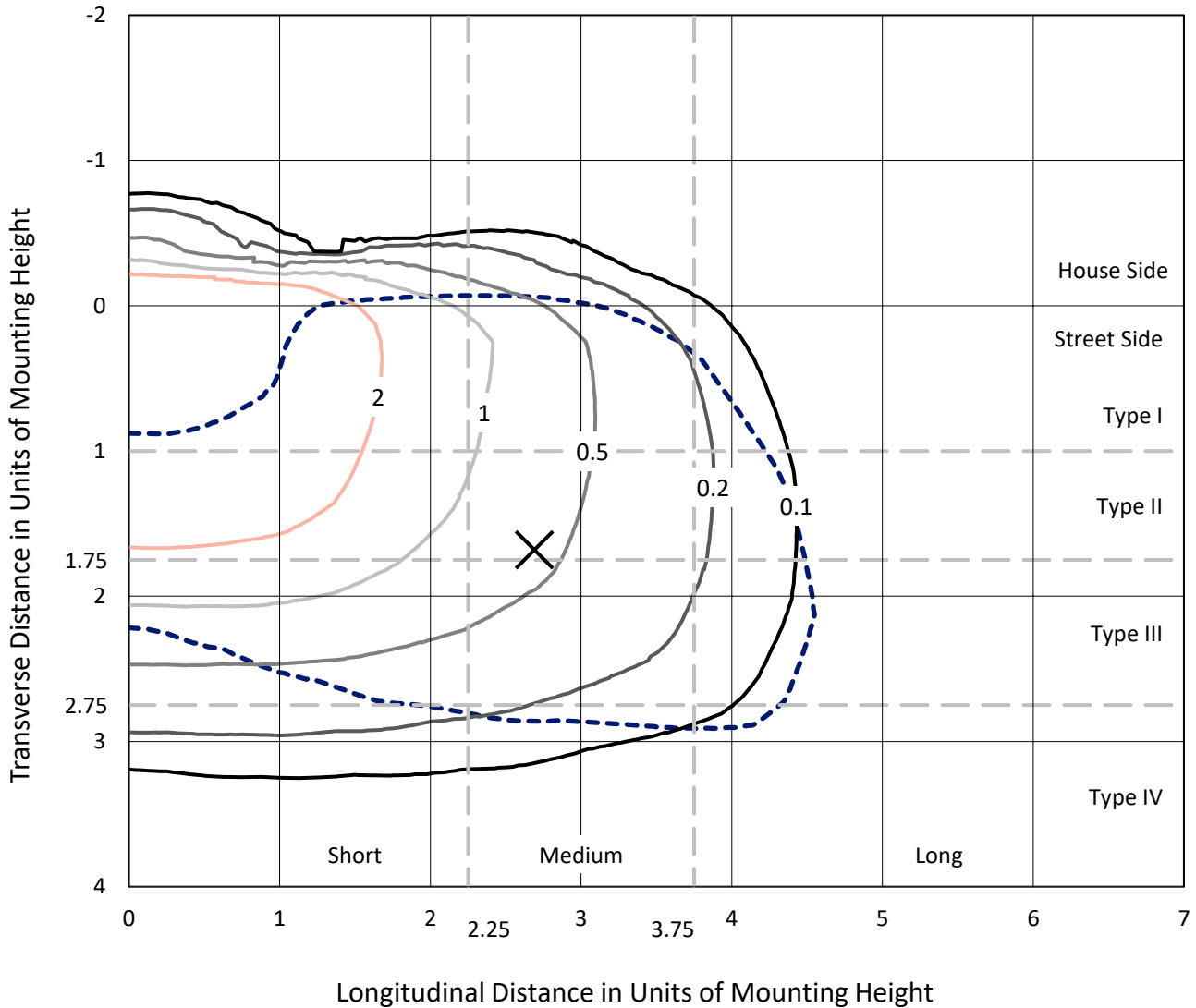
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

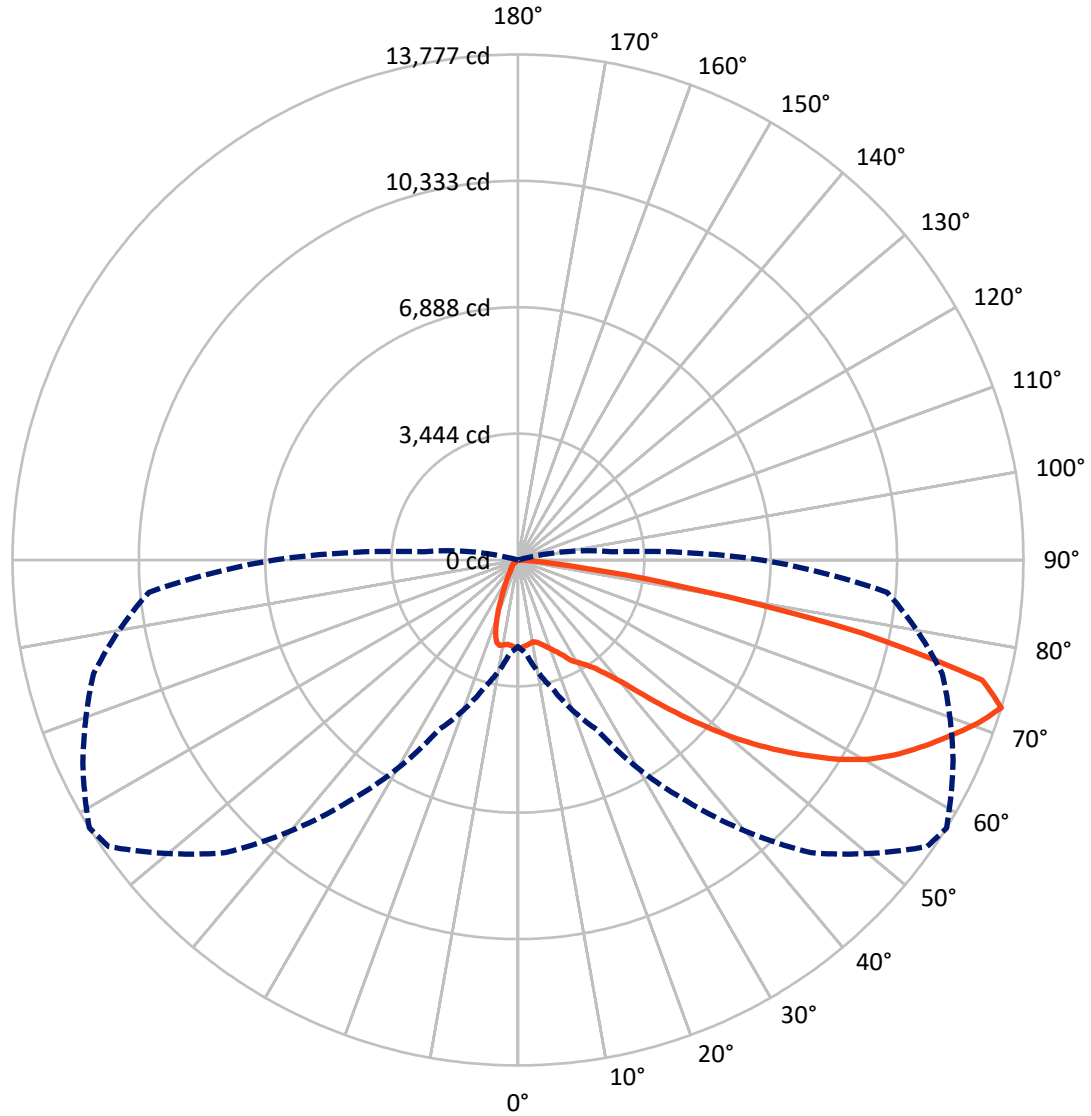
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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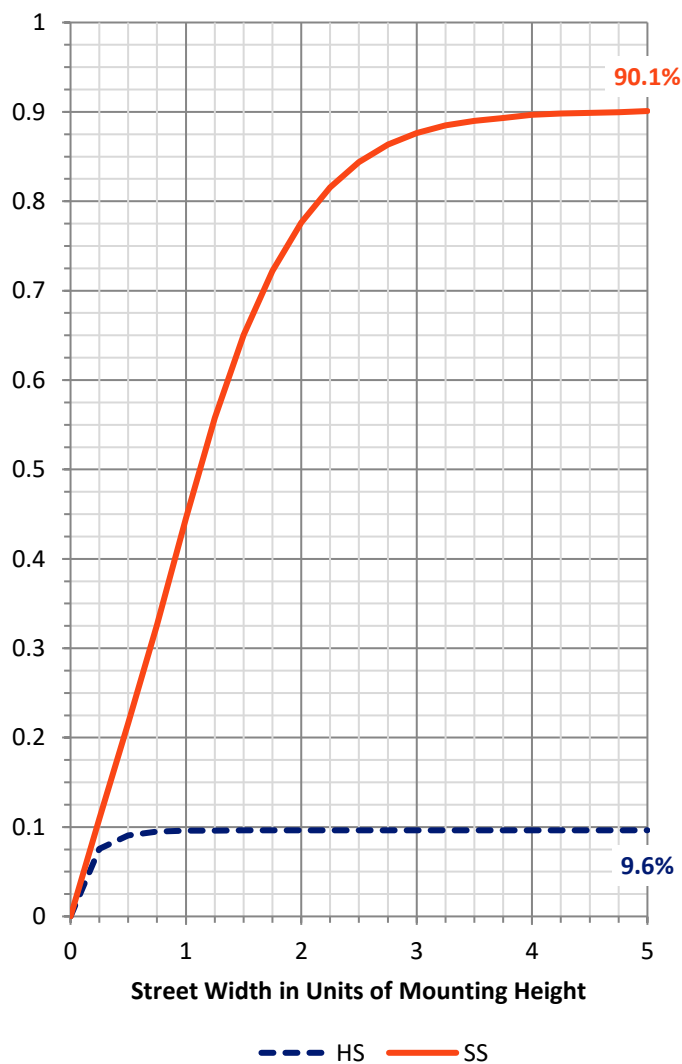
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.9	0.0	1947.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18083.1	0.0	18083.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	20031.0	0.0	20031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.1
10°-20°	574.5	2.9
20°-30°	902.6	4.5
30°-40°	1556.6	7.8
40°-50°	2961.5	14.8
50°-60°	4690.0	23.4
60°-70°	5472.7	27.3
70°-80°	3427.6	17.1
80°-90°	225.0	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°	20031.0	100.0
0°-180°	20031.0	100.0

Coefficient of Utilization



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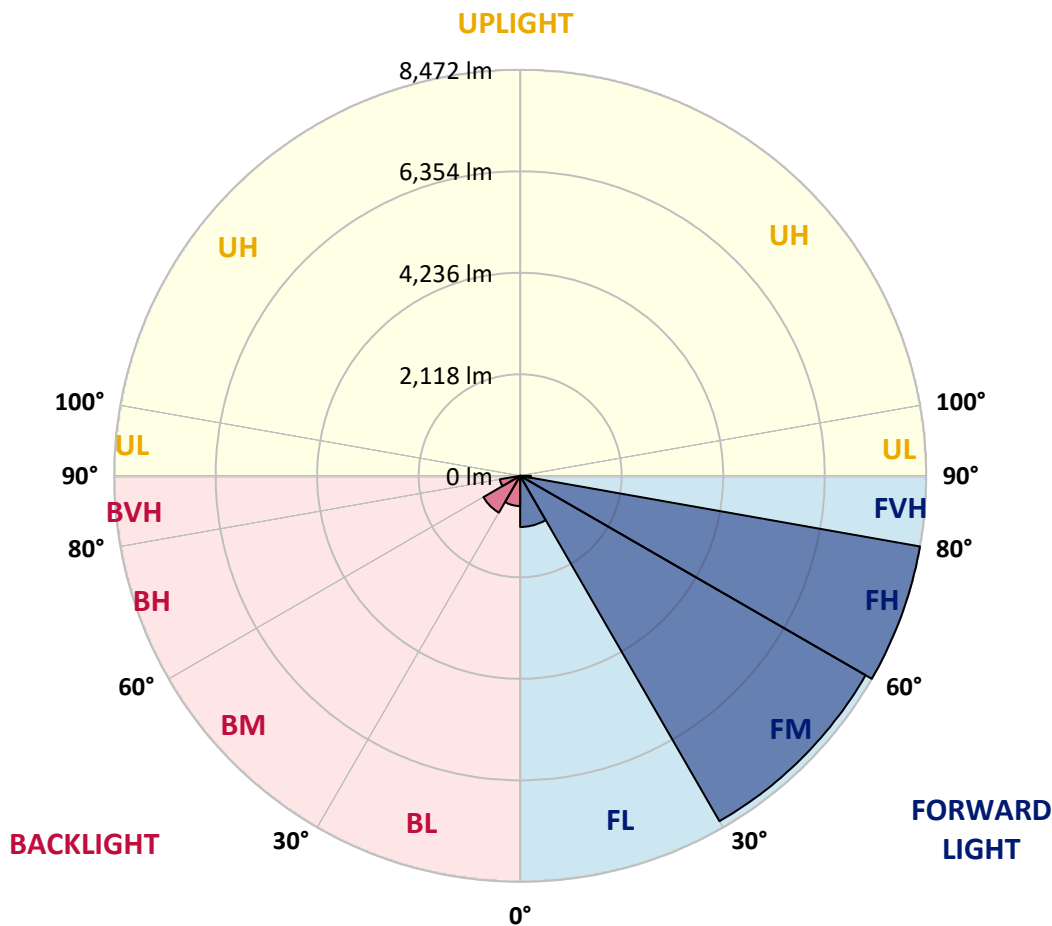
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.9	5.3			
FM (30°-60°)	8321.7	41.5			
FH (60°-80°)	8471.7	42.3			G4/12000
FVH (80°-90°)	222.8	1.1			G2/225
BL (0°-30°)	630.8	3.1	B2/1000		
BM (30°-60°)	886.3	4.4	B1/1000		
BH (60°-80°)	428.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6
2.5°	2392.9	2382.1	2378.5	2374.9	2378.5	2382.1	2371.4	2382.1	2374.9	2378.5	2385.7
5°	2306.9	2296.1	2292.6	2296.1	2306.9	2324.8	2332.0	2342.7	2342.7	2353.4	2357.0
7.5°	2210.2	2203.0	2199.4	2206.6	2228.1	2267.5	2289.0	2303.3	2317.6	2339.1	2360.6
10°	2156.4	2152.8	2149.3	2160.0	2181.5	2217.3	2246.0	2267.5	2321.2	2382.1	2421.5
12.5°	2120.6	2120.6	2127.8	2149.3	2177.9	2206.6	2274.6	2303.3	2385.7	2478.8	2532.6
15°	2092.0	2092.0	2102.7	2142.1	2181.5	2249.6	2349.9	2382.1	2478.8	2593.4	2665.1
17.5°	2070.5	2077.6	2084.8	2124.2	2199.4	2314.0	2432.3	2478.8	2597.0	2722.4	2801.2
20°	2074.0	2081.2	2084.8	2124.2	2231.7	2389.3	2539.7	2593.4	2729.6	2862.1	2940.9
22.5°	2095.5	2106.3	2109.9	2163.6	2289.0	2468.1	2661.5	2722.4	2869.3	3009.0	3069.9
25°	2185.1	2192.3	2170.8	2217.3	2371.4	2589.9	2819.1	2883.6	3030.5	3159.4	3209.6
27.5°	2489.6	2496.7	2378.5	2324.8	2435.8	2690.2	3012.6	3102.1	3284.8	3370.8	3377.9
30°	3148.7	3155.8	2923.0	2668.7	2589.9	2776.1	3120.0	3245.4	3481.8	3578.5	3535.5
32.5°	3997.6	3990.5	3671.7	3295.5	2955.2	2926.6	3274.1	3406.6	3664.5	3757.6	3725.4
35°	4850.2	4860.9	4588.7	4022.7	3535.5	3209.6	3471.1	3625.1	3936.7	4069.3	4012.0
37.5°	5434.1	5505.7	5387.5	4775.0	4248.4	3732.6	3789.9	3954.7	4345.1	4524.2	4402.4
40°	6258.0	6240.0	5953.5	5502.1	5036.5	4506.3	4305.7	4384.5	4832.3	5072.3	4882.4
42.5°	7364.8	7329.0	6841.8	6401.2	5881.8	5448.4	5040.0	5025.7	5391.1	5670.5	5394.7
45°	8367.8	8314.1	7980.9	7554.7	6985.1	6487.2	5935.6	5810.2	6064.5	6300.9	5978.5
47.5°	9166.6	9077.1	8840.7	8615.0	8475.3	7701.5	6874.1	6684.2	6813.2	6988.7	6533.8
50°	10112.3	9865.1	9521.3	9385.1	9675.3	9077.1	7776.8	7594.1	7586.9	7687.2	7106.9
52.5°	10542.2	10094.4	9901.0	10015.6	10527.8	10355.9	8751.1	8489.6	8385.7	8396.5	7640.6
55°	10022.8	9972.6	10076.5	10434.7	11104.6	11004.3	9686.0	9363.6	9209.6	9016.2	8152.9
57.5°	9431.7	9585.7	9997.7	10681.9	11835.3	11681.3	10606.6	10241.3	9958.3	9514.1	8722.4
60°	8887.2	9044.8	9725.4	10739.2	12236.5	12333.2	11373.2	11025.7	10606.6	10022.8	9349.3
62.5°	8059.8	8181.5	9138.0	10656.8	12061.0	12712.9	11906.9	11645.4	11255.0	10506.3	10069.3
65°	7128.4	7207.2	8152.9	9997.7	11717.1	12669.9	12347.5	12200.7	11821.0	11011.4	10782.2
67.5°	6107.5	6200.6	6988.7	8812.0	11043.7	12469.3	12763.1	12748.7	12315.3	11570.2	11298.0
70°	4932.6	4939.7	5591.7	7307.5	9868.7	12068.1	13278.9	13311.1	12788.1	11989.3	11319.5
72.5°	2360.6	2554.0	3625.1	5100.9	8020.4	11280.1	13615.6	13776.8	13085.5	11975.0	10098.0
75°	540.9	558.8	1056.7	2425.1	4703.3	8658.0	12773.8	13074.7	12361.9	10355.9	7114.1
77.5°	197.0	207.8	297.3	709.3	1809.0	4474.1	9141.6	9582.2	9138.0	6695.0	3363.6
80°	132.5	129.0	154.0	315.2	831.1	1268.1	4674.7	4936.2	4506.3	2285.4	806.0
82.5°	68.1	71.6	107.5	175.5	558.8	440.6	1561.8	1697.9	1397.0	458.5	150.4
85°	32.2	32.2	60.9	111.0	236.4	154.0	347.5	419.1	376.1	200.6	50.1
87.5°	32.2	32.2	57.3	71.6	121.8	64.5	86.0	107.5	100.3	107.5	17.9
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°	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6
2.5°	2385.7	2382.1	2378.5	2385.7	2382.1	2389.3	2389.3	2396.4	2396.4	2389.3	2385.7
5°	2353.4	2346.3	2339.1	2339.1	2335.5	2342.7	2364.2	2382.1	2385.7	2374.9	2371.4
7.5°	2357.0	2357.0	2349.9	2335.5	2310.5	2310.5	2310.5	2332.0	2342.7	2335.5	2332.0
10°	2421.5	2425.1	2407.2	2374.9	2332.0	2292.6	2217.3	2106.3	2002.4	1973.7	1963.0
12.5°	2532.6	2536.1	2500.3	2443.0	2353.4	2120.6	1834.0	1569.0	1364.8	1307.5	1296.7
15°	2665.1	2668.7	2604.2	2511.1	2238.8	1697.9	1271.7	970.8	791.6	748.7	745.1
17.5°	2801.2	2794.0	2697.3	2518.2	1898.5	1203.6	773.7	619.7	573.1	562.4	566.0
20°	2933.8	2912.3	2779.7	2385.7	1461.5	788.1	566.0	530.2	519.4	512.2	512.2
22.5°	3055.5	3012.6	2847.8	2124.2	1024.5	566.0	505.1	497.9	483.6	472.8	469.3
25°	3177.3	3116.4	2890.8	1783.9	687.8	494.3	476.4	462.1	444.2	429.9	426.3
27.5°	3324.2	3238.2	2869.3	1354.0	515.8	458.5	444.2	422.7	397.6	376.1	369.0
30°	3463.9	3367.2	2747.5	934.9	440.6	422.7	401.2	369.0	336.7	311.6	304.5
32.5°	3639.4	3528.4	2529.0	612.5	383.3	369.0	347.5	308.1	265.1	236.4	229.3
35°	3890.2	3764.8	2249.6	429.9	336.7	311.6	283.0	240.0	193.4	171.9	168.4
37.5°	4241.2	4072.9	1898.5	347.5	297.3	261.5	218.5	175.5	143.3	125.4	121.8
40°	4671.1	4413.2	1508.1	308.1	265.1	218.5	164.8	125.4	103.9	89.6	89.6
42.5°	5136.8	4732.0	1110.5	283.0	232.8	179.1	121.8	89.6	75.2	68.1	64.5
45°	5616.8	5015.0	748.7	261.5	204.2	136.1	86.0	60.9	50.1	50.1	46.6
47.5°	6114.7	5204.8	483.6	236.4	171.9	100.3	57.3	43.0	35.8	35.8	35.8
50°	6609.0	5305.1	343.9	214.9	139.7	68.1	43.0	32.2	28.7	28.7	28.7
52.5°	6967.2	5240.6	275.8	186.3	107.5	50.1	32.2	25.1	21.5	21.5	21.5
55°	7278.9	5129.6	240.0	161.2	78.8	35.8	25.1	21.5	17.9	17.9	17.9
57.5°	7597.7	4986.3	214.9	136.1	57.3	25.1	17.9	14.3	14.3	14.3	14.3
60°	7887.8	4742.7	186.3	107.5	39.4	17.9	14.3	10.7	10.7	10.7	10.7
62.5°	8170.8	4535.0	161.2	82.4	28.7	14.3	7.2	7.2	3.6	3.6	3.6
65°	8332.0	4255.6	129.0	53.7	17.9	10.7	3.6	3.6	0.0	0.0	0.0
67.5°	8281.8	3922.4	89.6	32.2	10.7	7.2	3.6	0.0	0.0	0.0	0.0
70°	7934.4	3474.6	53.7	17.9	10.7	7.2	3.6	0.0	0.0	0.0	0.0
72.5°	6644.8	2572.0	32.2	14.3	7.2	3.6	0.0	0.0	0.0	0.0	0.0
75°	4438.2	1182.1	17.9	10.7	3.6	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	2031.1	354.6	10.7	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	408.4	93.1	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.0	17.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.6	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)