

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: P400080

Luminaire Tested: **ARCH-L-PA3-230-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400080
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-PA3-230-740-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 980mA 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: 22875 lumens
Efficiency: N/A
Efficacy: 99.9 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

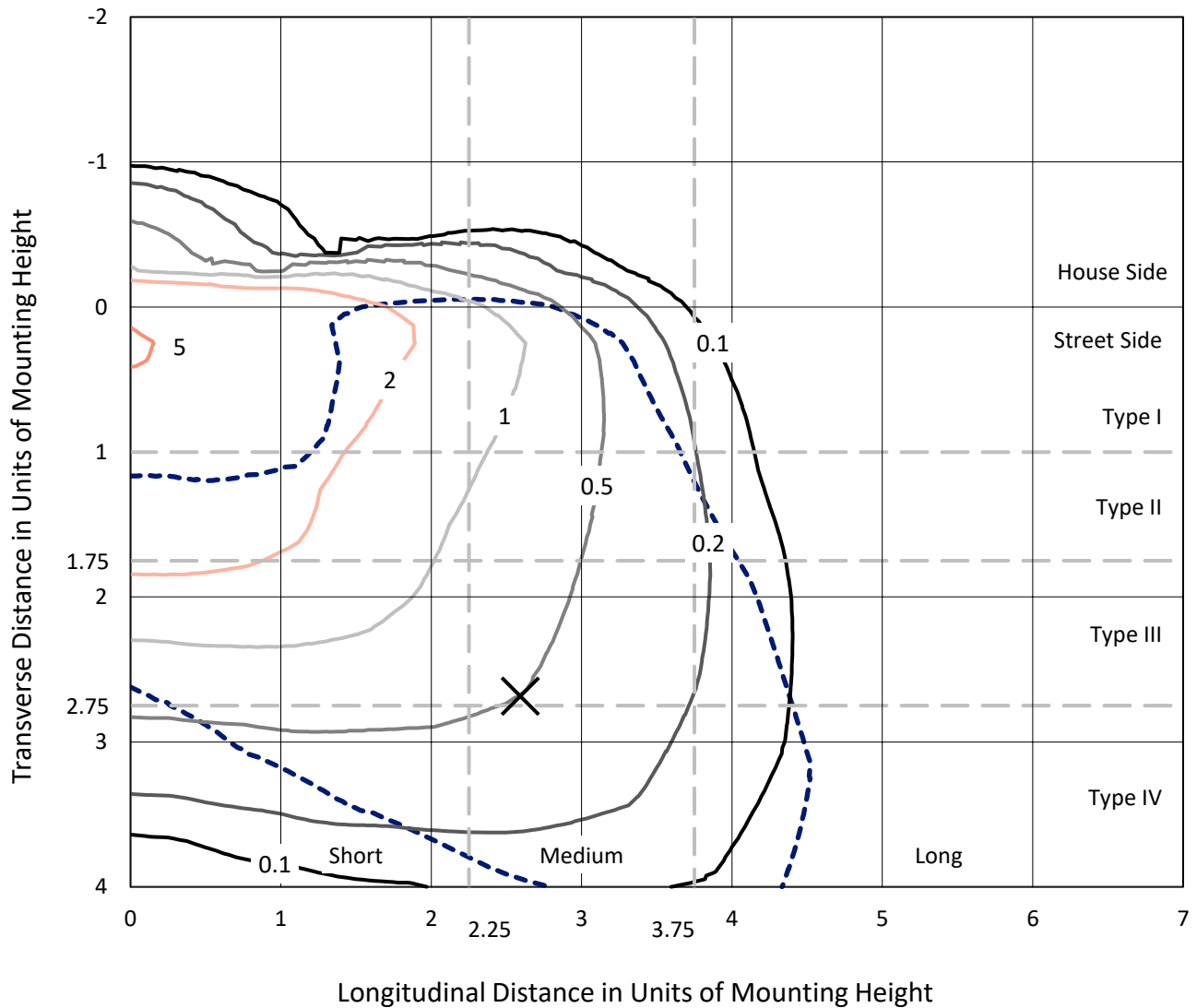
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

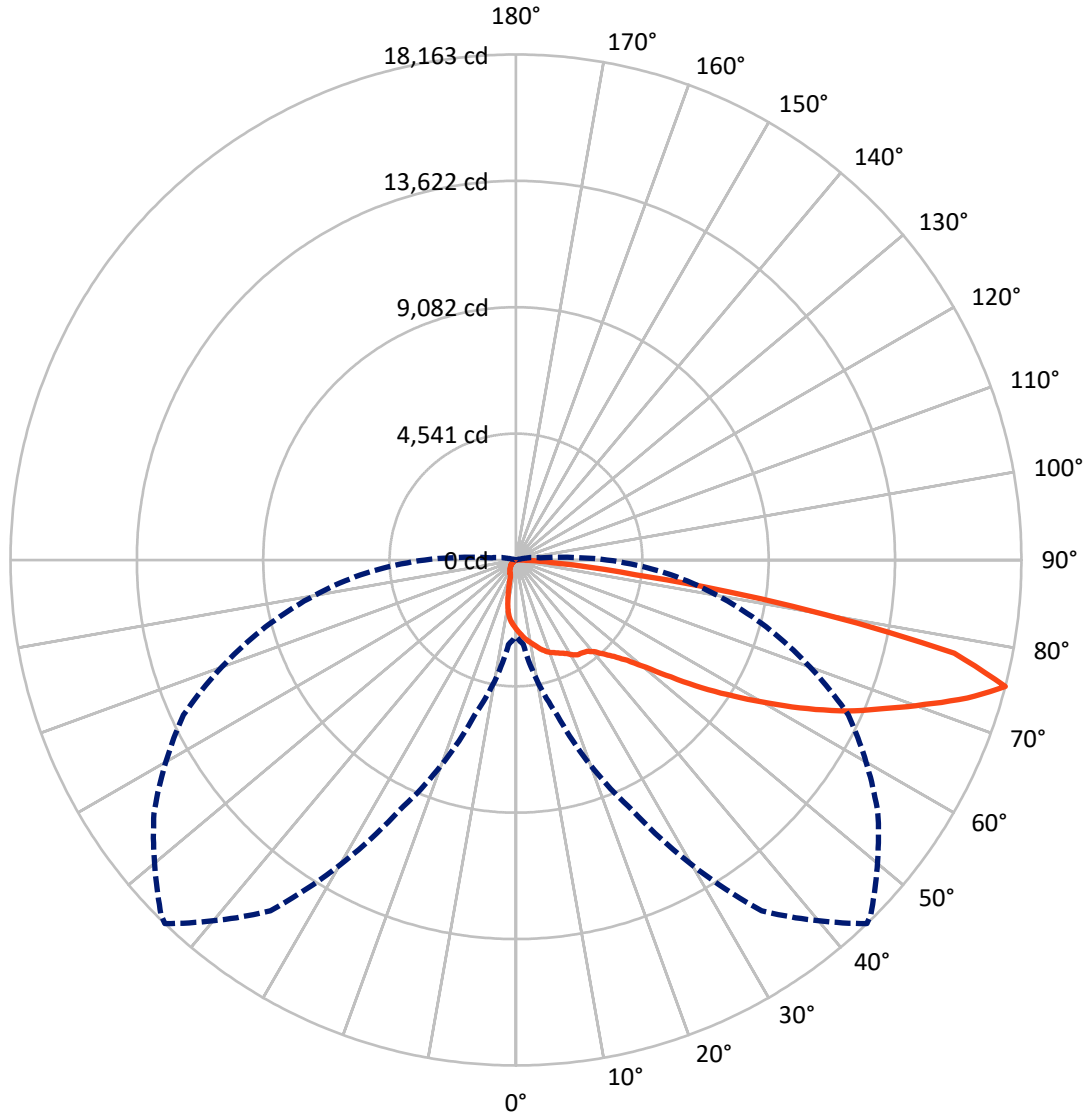
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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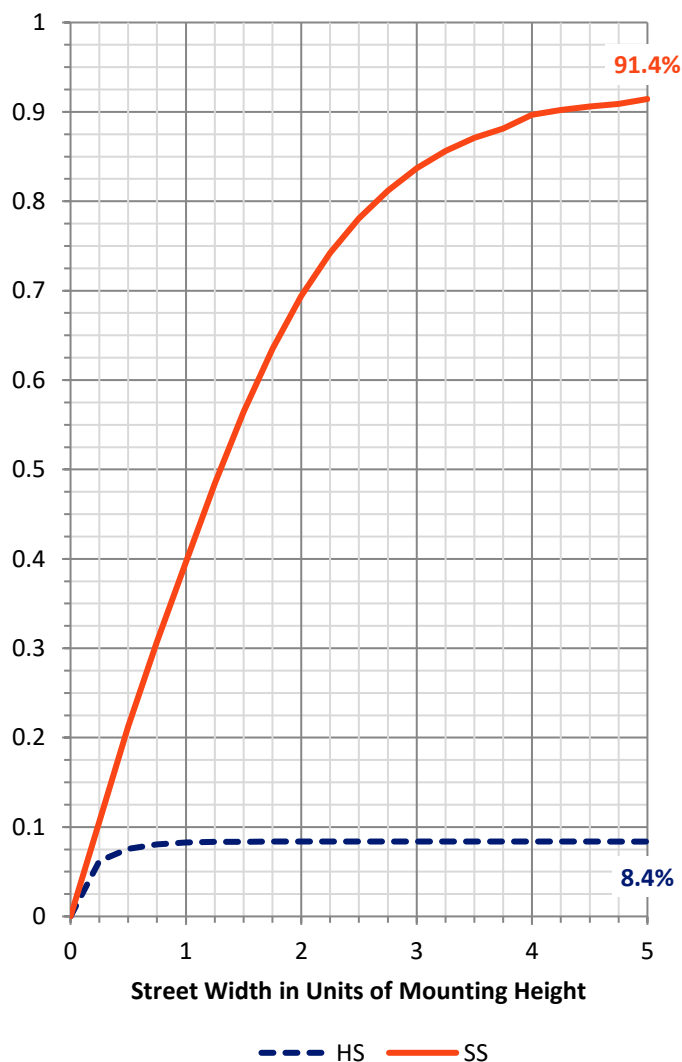
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.1	0.0	1929.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20945.9	0.0	20945.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	22875.0	0.0	22875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.0
10°-20°	658.0	2.9
20°-30°	1085.8	4.7
30°-40°	1576.0	6.9
40°-50°	2561.9	11.2
50°-60°	4516.3	19.7
60°-70°	6490.8	28.4
70°-80°	5197.7	22.7
80°-90°	553.8	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°	22875.0	100.0
0°-180°	22875.0	100.0

Coefficient of Utilization



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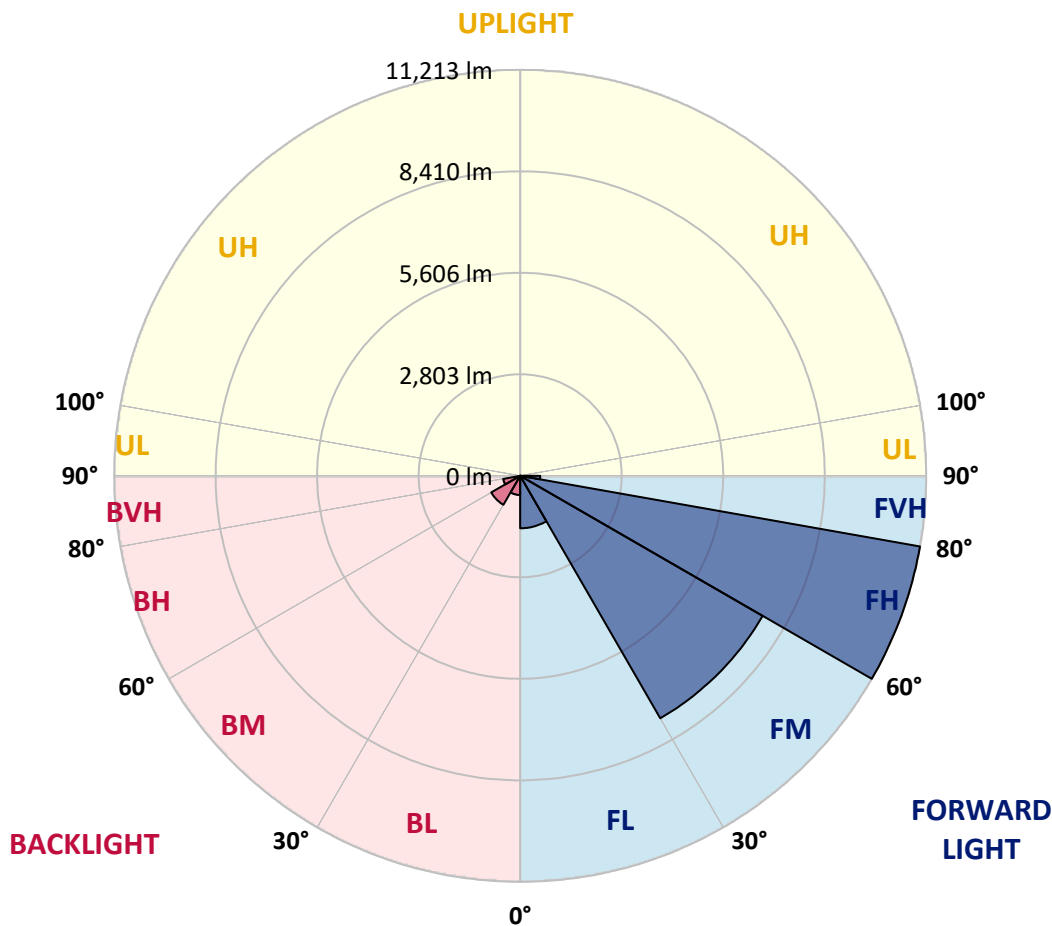
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.6	6.3			
FM (30°-60°)	7732.0	33.8			
FH (60°-80°)	11212.9	49.0			G4/12000
FVH (80°-90°)	552.4	2.4			G4/750
BL (0°-30°)	530.0	2.3	B2/1000		
BM (30°-60°)	922.1	4.0	B1/1000		
BH (60°-80°)	475.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	44°	45°	55°	65°	75°	85°
0°	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9
2.5°	2713.5	2709.3	2696.6	2675.5	2654.4	2633.3	2629.1	2595.4	2557.4	2527.8	2502.5
5°	2954.1	2949.8	2928.7	2882.3	2835.9	2781.0	2776.8	2696.6	2624.9	2544.7	2477.2
7.5°	3203.1	3194.6	3156.6	3084.9	3004.7	2920.3	2911.9	2793.7	2688.2	2582.7	2485.6
10°	3397.2	3388.7	3333.9	3249.5	3139.8	3034.2	3021.6	2899.2	2793.7	2658.7	2527.8
12.5°	3587.1	3570.2	3498.5	3405.6	3270.6	3169.3	3156.6	3030.0	2903.4	2764.2	2603.8
15°	3764.3	3743.2	3675.7	3557.5	3414.1	3317.0	3308.6	3173.5	3042.7	2882.3	2705.1
17.5°	3886.7	3878.3	3798.1	3667.3	3528.0	3447.8	3439.4	3300.1	3169.3	3000.5	2810.6
20°	3950.0	3950.0	3874.0	3730.6	3604.0	3549.1	3536.4	3405.6	3279.0	3118.7	2920.3
22.5°	3962.7	3975.3	3916.2	3760.1	3667.3	3620.8	3612.4	3498.5	3376.1	3228.4	3042.7
25°	3988.0	3988.0	3958.5	3789.6	3722.1	3709.5	3705.2	3604.0	3494.2	3346.5	3165.1
27.5°	4017.5	4017.5	3996.4	3831.8	3806.5	3802.3	3798.1	3751.7	3663.0	3490.0	3308.6
30°	4093.5	4097.7	4080.8	3916.2	3899.4	3945.8	3954.2	3928.9	3819.2	3604.0	3456.3
32.5°	4283.4	4245.4	4199.0	3975.3	4004.9	4064.0	4068.2	4017.5	3899.4	3726.3	3633.5
35°	4760.3	4536.6	4325.6	4026.0	4038.6	4097.7	4106.2	4101.9	4030.2	3882.5	3836.1
37.5°	5203.4	4886.9	4587.2	4144.1	4101.9	4165.2	4182.1	4253.9	4199.0	4097.7	4110.4
40°	5460.8	5338.4	5127.4	4469.1	4228.5	4325.6	4342.5	4452.2	4431.1	4388.9	4469.1
42.5°	6254.2	6262.6	6034.7	4954.4	4460.6	4616.8	4637.9	4726.5	4756.0	4777.1	4971.3
45°	7174.2	7203.7	7148.8	5828.0	4899.5	4950.2	4979.7	5097.9	5207.6	5342.6	5697.1
47.5°	8279.8	8254.5	8051.9	6895.6	5663.4	5380.6	5401.7	5629.6	5819.5	6114.9	6621.3
50°	9258.9	9322.2	8938.2	7891.6	6739.5	6060.1	6039.0	6262.6	6604.5	7018.0	7655.3
52.5°	10246.4	10153.6	9634.5	8879.1	8014.0	6984.3	6921.0	7043.3	7524.4	8014.0	8668.1
55°	10508.0	10516.5	10339.2	9959.4	9077.4	8106.8	8001.3	7992.9	8592.1	8925.5	9731.5
57.5°	11022.9	11044.0	11086.2	11162.2	10744.4	9229.4	9119.6	9001.5	9583.8	9778.0	10799.2
60°	11546.2	11571.5	11828.9	12238.3	11959.8	10440.5	10322.4	10043.8	10368.8	10630.4	11921.8
62.5°	11478.7	11655.9	12402.9	13217.3	13183.6	11769.8	11622.1	10951.2	11157.9	11385.8	12951.5
65°	10364.6	10554.5	12234.1	13487.4	14411.6	13082.3	12841.8	11888.0	11900.7	12175.0	13943.2
67.5°	9368.6	9575.4	11179.0	13373.5	15221.9	14259.7	14010.7	12829.1	12630.7	13086.5	14474.9
70°	8794.7	9001.5	10339.2	13019.0	15449.8	15563.7	15348.5	13905.2	13500.1	13917.9	13879.9
72.5°	6883.0	7207.9	9267.3	12343.8	15694.5	16960.6	16791.8	15268.3	14238.6	13048.5	10567.1
75°	2743.1	3042.7	5785.8	9934.1	15386.5	18163.3	18032.5	15880.2	13179.4	9318.0	5410.2
77.5°	827.1	886.2	1607.9	4912.2	11280.3	16103.9	16061.7	13352.4	9326.4	4325.6	1477.0
80°	274.3	303.8	493.8	1354.7	5148.5	10060.7	10250.6	8507.7	4237.0	991.7	299.6
82.5°	113.9	126.6	249.0	544.4	1823.1	4334.0	4270.7	3810.7	1477.0	616.1	109.7
85°	29.5	38.0	113.9	312.3	666.8	1493.9	1569.9	1278.7	835.6	510.6	33.8
87.5°	0.0	0.0	54.9	126.6	299.6	451.6	472.7	388.2	472.7	384.0	16.9
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°	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9	2489.9
2.5°	2481.4	2460.3	2422.3	2397.0	2363.3	2354.8	2337.9	2316.8	2312.6	2291.5	2295.7
5°	2439.2	2405.5	2337.9	2291.5	2236.7	2219.8	2190.2	2169.1	2152.2	2122.7	2126.9
7.5°	2430.8	2380.1	2287.3	2198.7	2110.0	2046.7	1958.1	1886.4	1827.3	1764.0	1776.7
10°	2460.3	2397.0	2266.2	2143.8	1983.4	1780.9	1548.8	1396.9	1320.9	1244.9	1253.4
12.5°	2519.4	2443.4	2274.6	2088.9	1764.0	1418.0	1097.2	890.4	835.6	801.8	806.0
15°	2608.0	2515.2	2300.0	1983.4	1468.6	1025.5	730.1	641.5	662.6	675.2	675.2
17.5°	2700.9	2595.4	2321.1	1793.5	1135.2	717.4	595.0	586.6	616.1	645.7	645.7
20°	2814.8	2679.8	2325.3	1553.0	818.7	582.4	561.3	561.3	582.4	616.1	616.1
22.5°	2924.5	2772.6	2287.3	1278.7	624.6	540.2	540.2	540.2	552.8	586.6	590.8
25°	3055.3	2886.5	2207.1	987.5	536.0	514.9	514.9	519.1	527.5	557.1	561.3
27.5°	3194.6	3004.7	2072.1	721.6	489.5	485.3	489.5	493.8	498.0	527.5	536.0
30°	3355.0	3135.5	1899.0	540.2	447.3	447.3	460.0	468.4	468.4	493.8	502.2
32.5°	3540.7	3308.6	1692.3	447.3	405.1	400.9	422.0	434.7	434.7	455.8	464.2
35°	3772.8	3485.8	1443.3	396.7	371.4	362.9	371.4	392.5	400.9	417.8	422.0
37.5°	4080.8	3696.8	1177.4	367.1	346.0	329.2	329.2	333.4	350.3	367.1	371.4
40°	4473.3	3928.9	915.8	346.0	320.7	303.8	291.2	287.0	282.7	295.4	303.8
42.5°	4967.1	4190.6	683.7	324.9	299.6	274.3	257.4	240.5	219.4	215.2	219.4
45°	5600.1	4511.3	506.4	308.1	287.0	249.0	219.4	189.9	151.9	139.3	143.5
47.5°	6347.0	4844.7	396.7	291.2	278.5	219.4	181.5	130.8	92.8	84.4	88.6
50°	7140.4	5165.4	337.6	270.1	261.6	189.9	130.8	80.2	54.9	54.9	59.1
52.5°	7815.6	5346.9	308.1	253.2	236.3	156.1	84.4	46.4	33.8	33.8	38.0
55°	8469.7	5443.9	287.0	236.3	202.6	109.7	46.4	29.5	21.1	21.1	21.1
57.5°	9144.9	5486.1	261.6	215.2	160.4	67.5	25.3	16.9	12.7	12.7	12.7
60°	9744.2	5405.9	223.7	177.2	105.5	33.8	12.7	12.7	8.4	4.2	4.2
62.5°	10246.4	5254.0	156.1	126.6	63.3	16.9	8.4	4.2	0.0	0.0	0.0
65°	10554.5	5009.3	101.3	84.4	38.0	12.7	4.2	0.0	0.0	0.0	0.0
67.5°	10465.8	4549.3	63.3	54.9	16.9	8.4	4.2	0.0	0.0	0.0	0.0
70°	9444.6	3730.6	46.4	33.8	12.7	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	6807.0	2523.6	33.8	21.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	3274.8	898.9	21.1	16.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	801.8	198.3	12.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	177.2	38.0	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.1	16.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	4.2	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)