

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: P400089

Luminaire Tested: **ARCH-L-PA3-230-750-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400089
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-PA3-230-750-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 22874 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

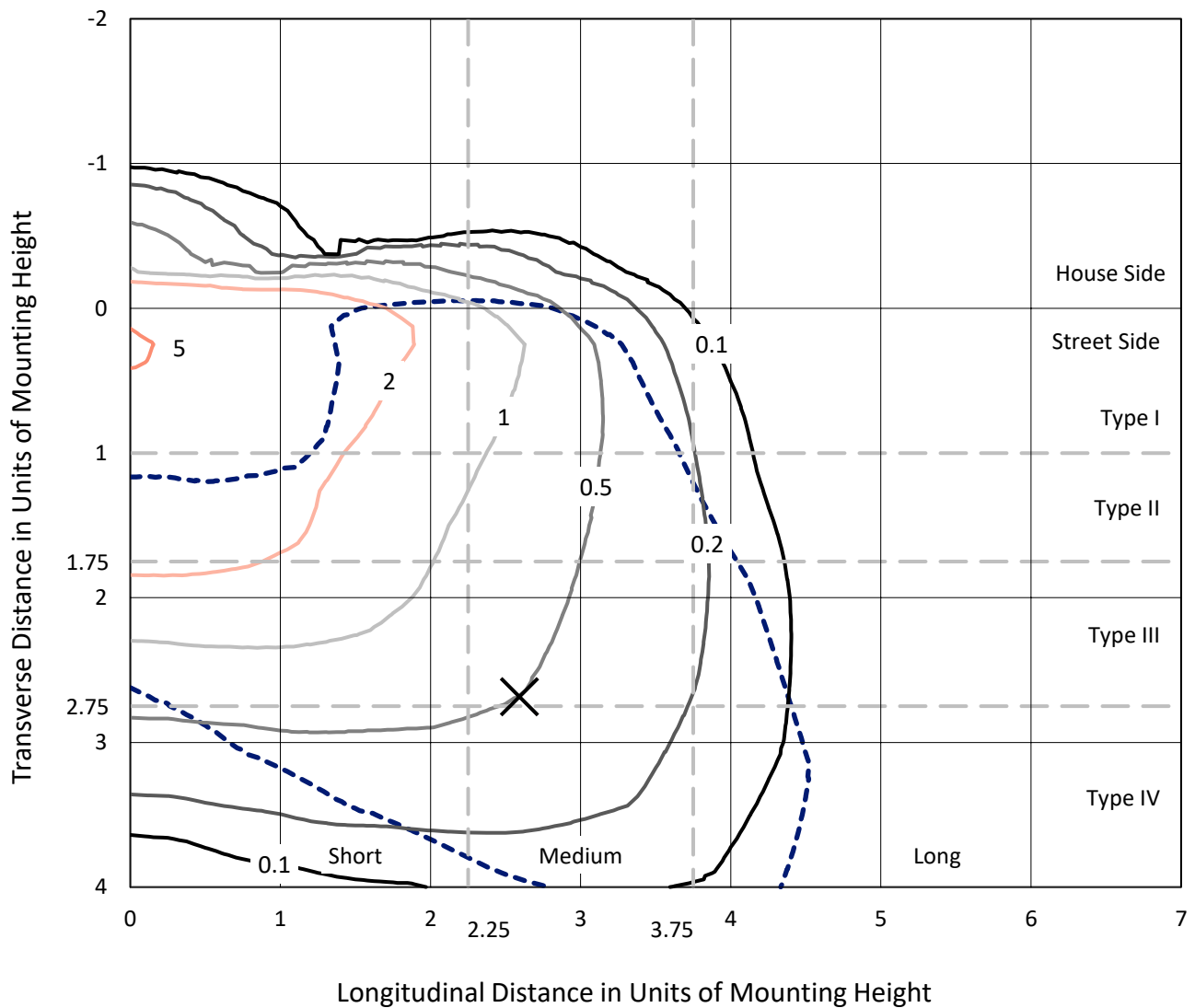
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

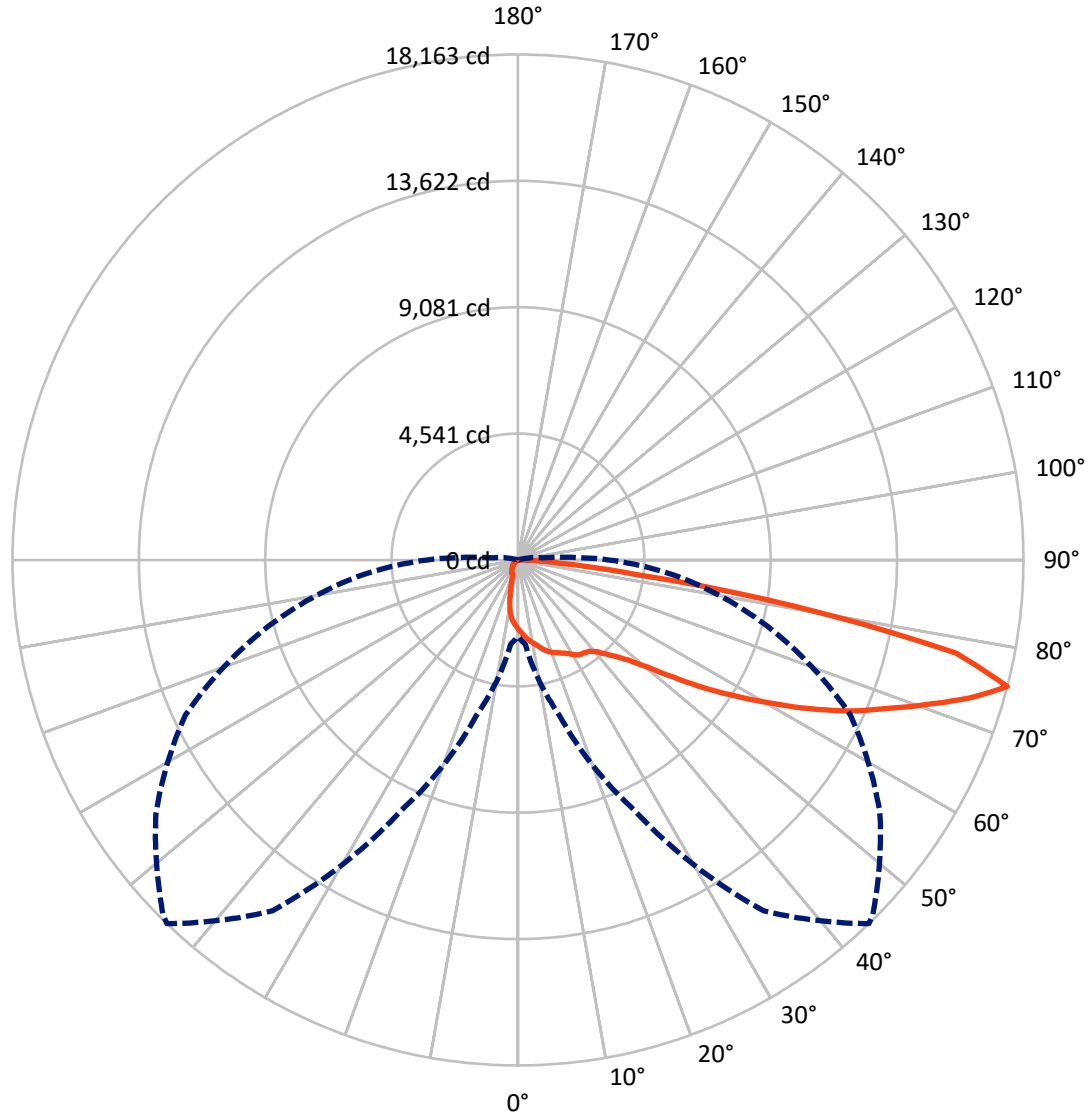
× Max cd
 - - - 1/2 Max cd



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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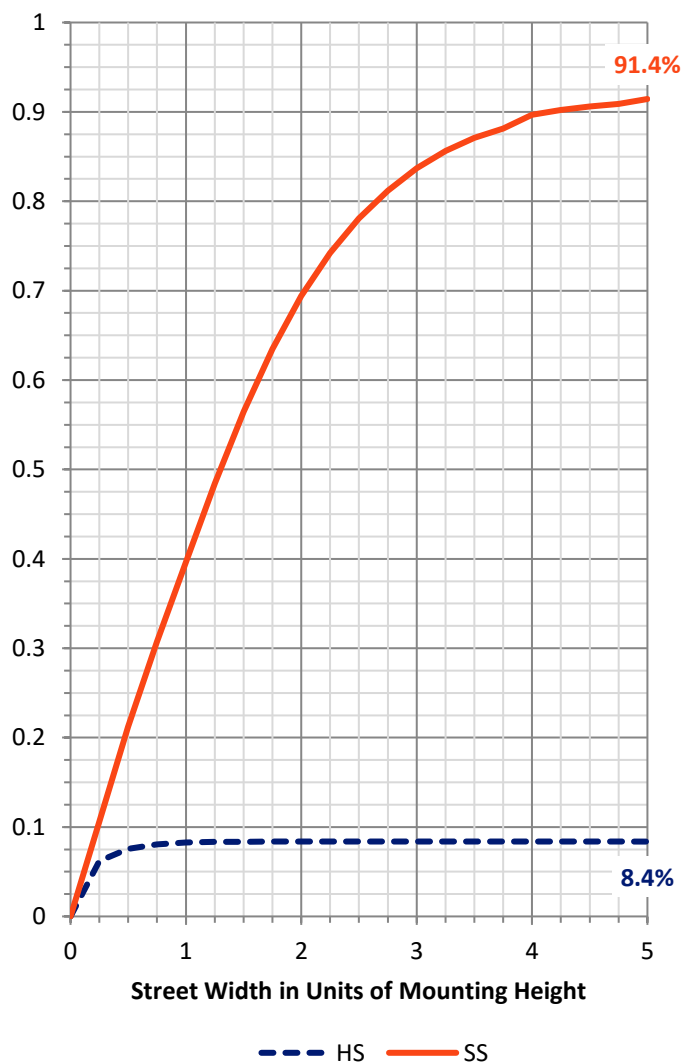
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.0	0.0	1929.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20945.0	0.0	20945.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	22874.0	0.0	22874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.0
10°-20°	657.9	2.9
20°-30°	1085.8	4.7
30°-40°	1575.9	6.9
40°-50°	2561.7	11.2
50°-60°	4516.1	19.7
60°-70°	6490.5	28.4
70°-80°	5197.5	22.7
80°-90°	553.7	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°	22874.0	100.0
0°-180°	22874.0	100.0

Coefficient of Utilization



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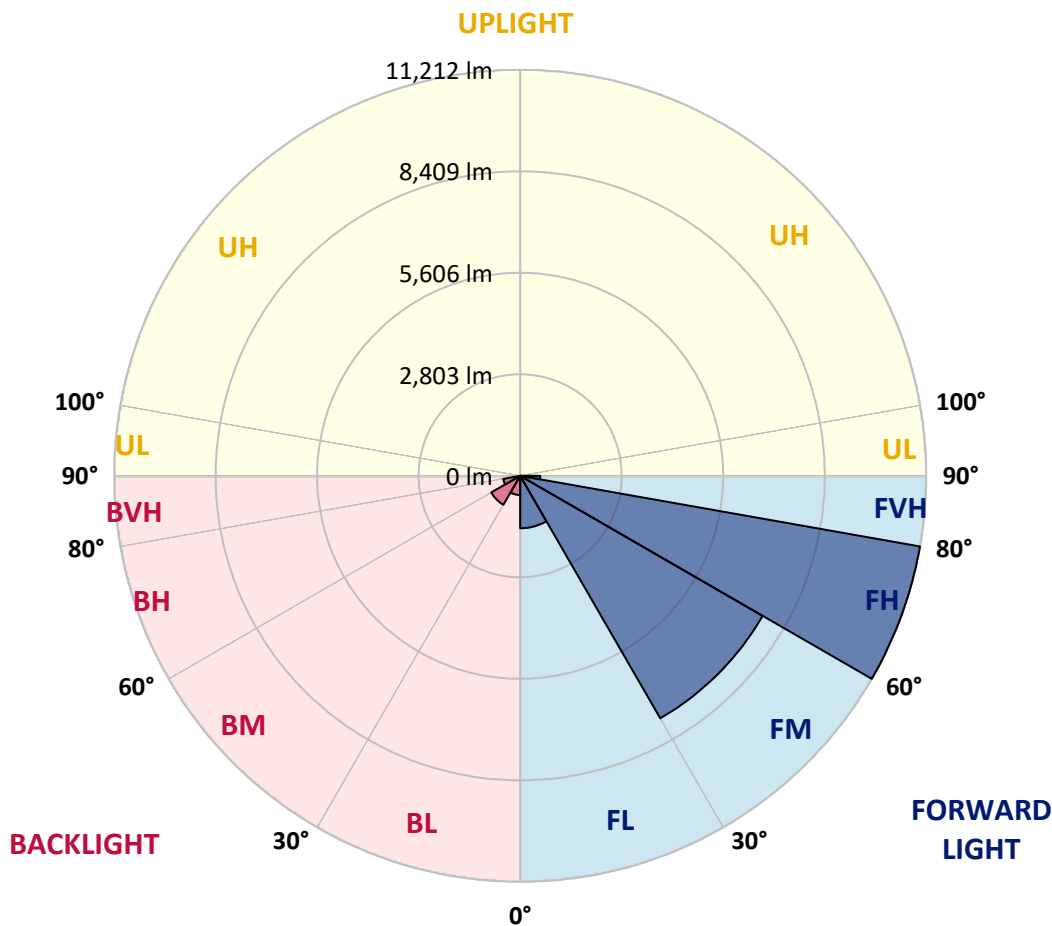
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.6	6.3			
FM (30°-60°)	7731.6	33.8			
FH (60°-80°)	11212.4	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°	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7
2.5°	2713.4	2709.2	2696.5	2675.4	2654.3	2633.2	2629.0	2595.2	2557.3	2527.7	2502.4
5°	2953.9	2949.7	2928.6	2882.2	2835.8	2780.9	2776.7	2696.5	2624.8	2544.6	2477.1
7.5°	3202.9	3194.5	3156.5	3084.8	3004.6	2920.2	2911.7	2793.6	2688.1	2582.6	2485.5
10°	3397.0	3388.6	3333.7	3249.3	3139.6	3034.1	3021.5	2899.1	2793.6	2658.5	2527.7
12.5°	3586.9	3570.0	3498.3	3405.5	3270.4	3169.2	3156.5	3029.9	2903.3	2764.0	2603.7
15°	3764.2	3743.1	3675.5	3557.4	3413.9	3316.9	3308.4	3173.4	3042.6	2882.2	2705.0
17.5°	3886.5	3878.1	3797.9	3667.1	3527.8	3447.7	3439.2	3300.0	3169.2	3000.4	2810.5
20°	3949.8	3949.8	3873.9	3730.4	3603.8	3548.9	3536.3	3405.5	3278.9	3118.5	2920.2
22.5°	3962.5	3975.2	3916.1	3759.9	3667.1	3620.7	3612.2	3498.3	3375.9	3228.2	3042.6
25°	3987.8	3987.8	3958.3	3789.5	3722.0	3709.3	3705.1	3603.8	3494.1	3346.4	3164.9
27.5°	4017.4	4017.4	3996.3	3831.7	3806.4	3802.1	3797.9	3751.5	3662.9	3489.9	3308.4
30°	4093.3	4097.5	4080.7	3916.1	3899.2	3945.6	3954.1	3928.7	3819.0	3603.8	3456.1
32.5°	4283.2	4245.2	4198.8	3975.2	4004.7	4063.8	4068.0	4017.4	3899.2	3726.2	3633.3
35°	4760.1	4536.4	4325.4	4025.8	4038.5	4097.5	4106.0	4101.8	4030.0	3882.3	3835.9
37.5°	5203.2	4886.7	4587.0	4144.0	4101.8	4165.1	4181.9	4253.7	4198.8	4097.5	4110.2
40°	5460.6	5338.2	5127.2	4468.9	4228.4	4325.4	4342.3	4452.0	4430.9	4388.7	4468.9
42.5°	6253.9	6262.3	6034.5	4954.2	4460.4	4616.6	4637.7	4726.3	4755.8	4776.9	4971.1
45°	7173.9	7203.4	7148.5	5827.7	4899.3	4950.0	4979.5	5097.7	5207.4	5342.4	5696.9
47.5°	8279.5	8254.1	8051.6	6895.3	5663.1	5380.4	5401.5	5629.4	5819.3	6114.7	6621.0
50°	9258.5	9321.8	8937.8	7891.2	6739.2	6059.8	6038.7	6262.3	6604.2	7017.7	7654.9
52.5°	10245.9	10153.1	9634.1	8878.7	8013.6	6984.0	6920.7	7043.0	7524.1	8013.6	8667.7
55°	10507.6	10516.0	10338.8	9959.0	9077.0	8106.5	8001.0	7992.5	8591.7	8925.1	9731.1
57.5°	11022.4	11043.5	11085.7	11161.7	10743.9	9228.9	9119.2	9001.1	9583.4	9777.5	10798.8
60°	11545.7	11571.0	11828.4	12237.7	11959.2	10440.1	10321.9	10043.4	10368.3	10630.0	11921.3
62.5°	11478.2	11655.4	12402.3	13216.8	13183.0	11769.3	11621.6	10950.7	11157.4	11385.3	12950.9
65°	10364.1	10554.0	12233.5	13486.8	14411.0	13081.7	12841.2	11887.5	11900.2	12174.4	13942.6
67.5°	9368.2	9575.0	11178.5	13372.9	15221.2	14259.1	14010.1	12828.5	12630.2	13085.9	14474.3
70°	8794.3	9001.1	10338.8	13018.4	15449.1	15563.0	15347.8	13904.6	13499.5	13917.3	13879.3
72.5°	6882.7	7207.6	9266.9	12343.2	15693.9	16959.8	16791.0	15267.6	14238.0	13048.0	10566.7
75°	2742.9	3042.6	5785.5	9933.7	15385.8	18162.5	18031.7	15879.5	13178.8	9317.6	5409.9
77.5°	827.1	886.2	1607.8	4912.0	11279.8	16103.2	16061.0	13351.8	9326.0	4325.4	1477.0
80°	274.3	303.8	493.7	1354.6	5148.3	10060.3	10250.2	8507.3	4236.8	991.7	299.6
82.5°	113.9	126.6	249.0	544.4	1823.0	4333.8	4270.6	3810.6	1477.0	616.1	109.7
85°	29.5	38.0	113.9	312.3	666.7	1493.8	1569.8	1278.6	835.5	510.6	33.8
87.5°	0.0	0.0	54.9	126.6	299.6	451.5	472.6	388.2	472.6	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°	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7	2489.7
2.5°	2481.3	2460.2	2422.2	2396.9	2363.2	2354.7	2337.8	2316.7	2312.5	2291.4	2295.6
5°	2439.1	2405.3	2337.8	2291.4	2236.6	2219.7	2190.1	2169.0	2152.2	2122.6	2126.8
7.5°	2430.7	2380.0	2287.2	2198.6	2110.0	2046.7	1958.0	1886.3	1827.2	1763.9	1776.6
10°	2460.2	2396.9	2266.1	2143.7	1983.4	1780.8	1548.7	1396.8	1320.8	1244.9	1253.3
12.5°	2519.3	2443.3	2274.5	2088.9	1763.9	1417.9	1097.2	890.4	835.5	801.8	806.0
15°	2607.9	2515.1	2299.9	1983.4	1468.5	1025.4	730.0	641.4	662.5	675.2	675.2
17.5°	2700.7	2595.2	2321.0	1793.5	1135.2	717.4	595.0	586.6	616.1	645.6	645.6
20°	2814.7	2679.6	2325.2	1552.9	818.7	582.3	561.2	561.2	582.3	616.1	616.1
22.5°	2924.4	2772.5	2287.2	1278.6	624.5	540.1	540.1	540.1	552.8	586.6	590.8
25°	3055.2	2886.4	2207.0	987.5	535.9	514.8	514.8	519.0	527.5	557.0	561.2
27.5°	3194.5	3004.6	2072.0	721.6	489.5	485.3	489.5	493.7	497.9	527.5	535.9
30°	3354.8	3135.4	1899.0	540.1	447.3	447.3	460.0	468.4	468.4	493.7	502.2
32.5°	3540.5	3308.4	1692.2	447.3	405.1	400.9	422.0	434.7	434.7	455.8	464.2
35°	3772.6	3485.6	1443.2	396.7	371.4	362.9	371.4	392.5	400.9	417.8	422.0
37.5°	4080.7	3696.6	1177.4	367.1	346.0	329.2	329.2	333.4	350.3	367.1	371.4
40°	4473.1	3928.7	915.7	346.0	320.7	303.8	291.2	287.0	282.7	295.4	303.8
42.5°	4966.8	4190.4	683.6	324.9	299.6	274.3	257.4	240.5	219.4	215.2	219.4
45°	5599.8	4511.1	506.4	308.1	287.0	249.0	219.4	189.9	151.9	139.3	143.5
47.5°	6346.7	4844.5	396.7	291.2	278.5	219.4	181.5	130.8	92.8	84.4	88.6
50°	7140.1	5165.2	337.6	270.1	261.6	189.9	130.8	80.2	54.9	54.9	59.1
52.5°	7815.3	5346.6	308.1	253.2	236.3	156.1	84.4	46.4	33.8	33.8	38.0
55°	8469.4	5443.7	287.0	236.3	202.6	109.7	46.4	29.5	21.1	21.1	21.1
57.5°	9144.5	5485.9	261.6	215.2	160.4	67.5	25.3	16.9	12.7	12.7	12.7
60°	9743.8	5405.7	223.7	177.2	105.5	33.8	12.7	12.7	8.4	4.2	4.2
62.5°	10245.9	5253.8	156.1	126.6	63.3	16.9	8.4	4.2	0.0	0.0	0.0
65°	10554.0	5009.0	101.3	84.4	38.0	12.7	4.2	0.0	0.0	0.0	0.0
67.5°	10465.4	4549.1	63.3	54.9	16.9	8.4	4.2	0.0	0.0	0.0	0.0
70°	9444.2	3730.4	46.4	33.8	12.7	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	6806.7	2523.5	33.8	21.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	3274.7	898.8	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)