

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: P399534

Luminaire Tested: **ARCH-L-PA3-150-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15101 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

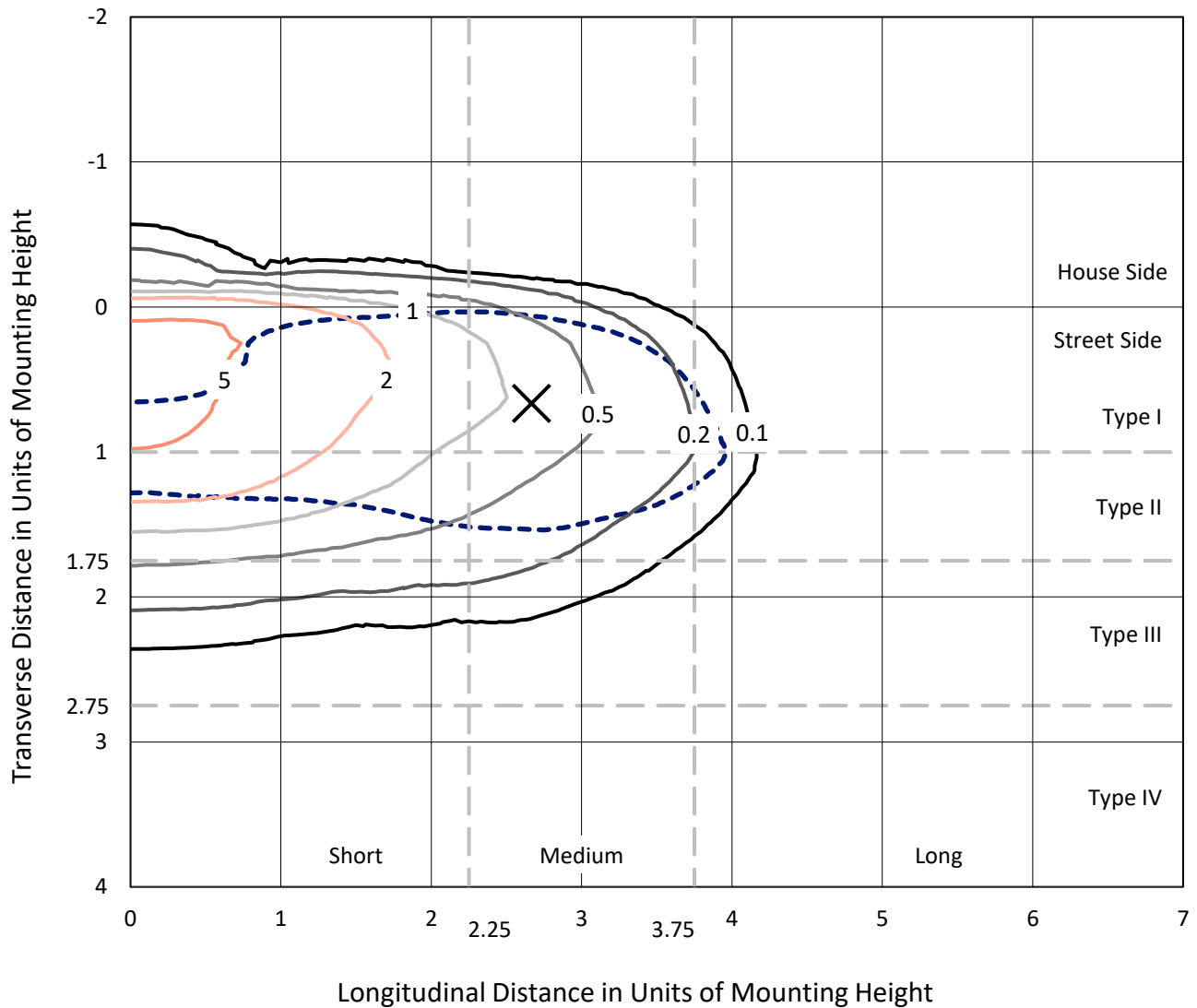
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

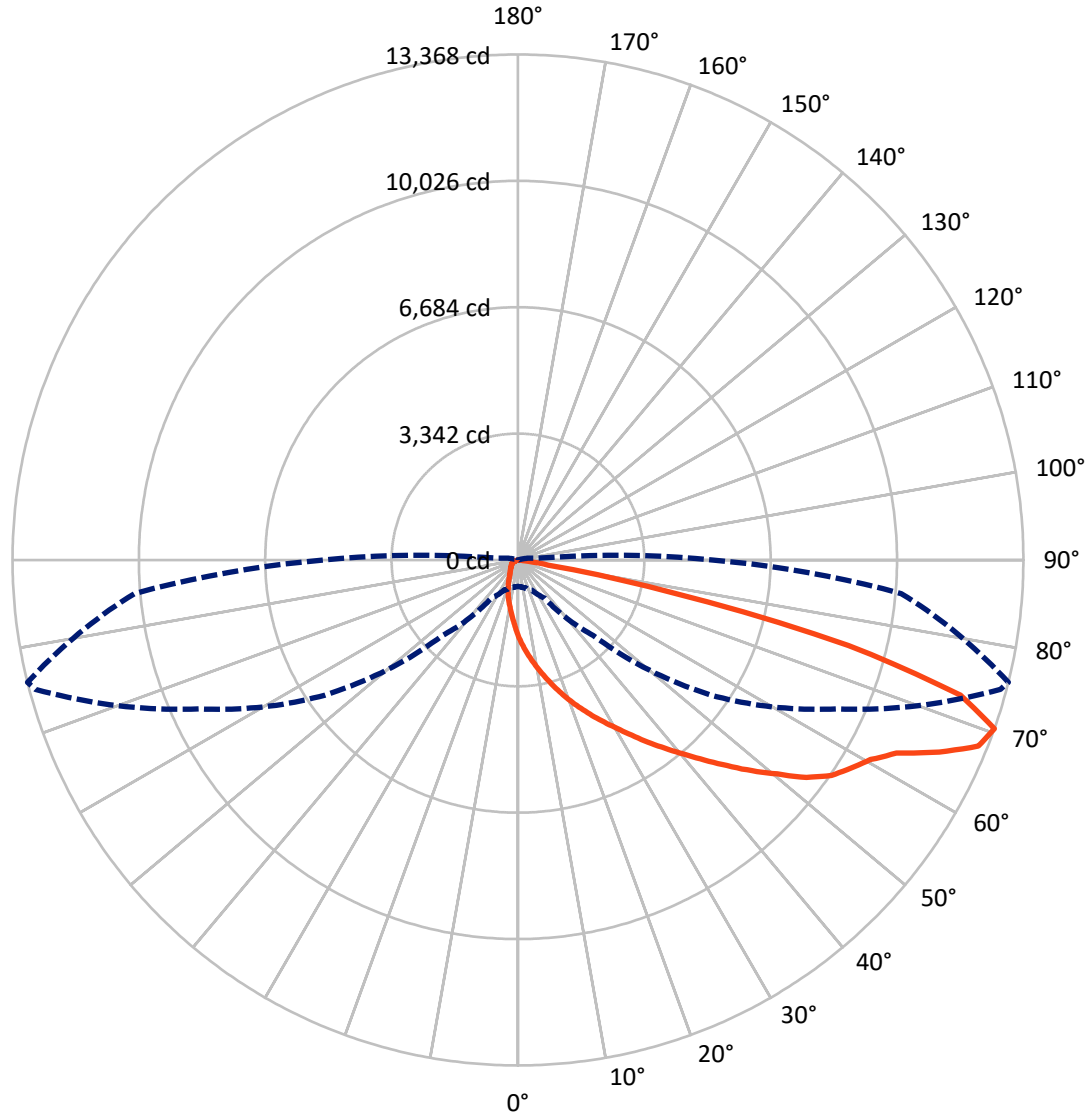
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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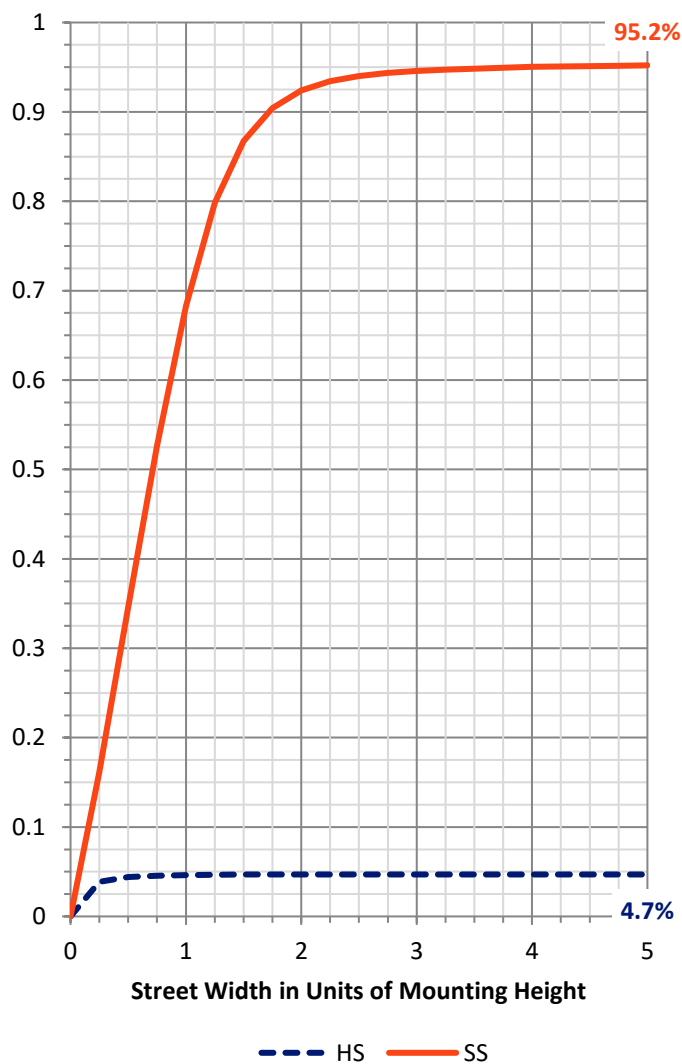
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.2	0.0	712.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14388.8	0.0	14388.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	15101.0	0.0	15101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	1.3
10°-20°	614.6	4.1
20°-30°	1144.6	7.6
30°-40°	2024.6	13.4
40°-50°	3096.0	20.5
50°-60°	3510.2	23.2
60°-70°	3009.1	19.9
70°-80°	1457.4	9.7
80°-90°	54.1	0.4
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°	15101.0	100.0
0°-180°	15101.0	100.0

Coefficient of Utilization



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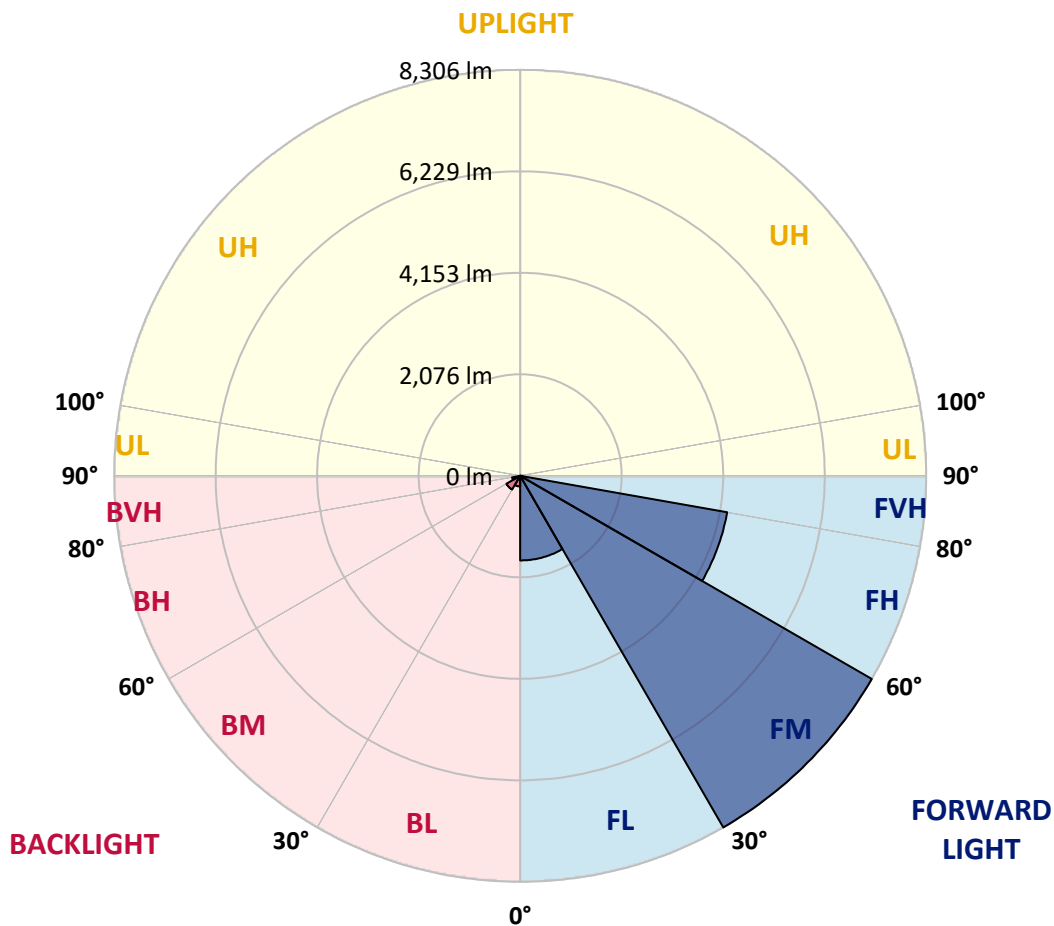
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.2	11.5			
FM (30°-60°)	8305.7	55.0			
FH (60°-80°)	4298.8	28.5			G2/5000
FVH (80°-90°)	53.1	0.4			G1/100
BL (0°-30°)	218.5	1.4	B1/500		
BM (30°-60°)	325.1	2.2	B1/1000		
BH (60°-80°)	167.7	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4
2.5°	2763.0	2748.0	2732.9	2675.0	2622.2	2574.5	2484.0	2365.8	2260.2	2237.6	2114.4
5°	3245.8	3228.2	3205.5	3147.7	3079.8	2999.4	2866.1	2685.1	2499.1	2458.8	2230.0
7.5°	3572.6	3557.5	3524.8	3497.2	3429.3	3351.3	3203.0	2991.8	2735.4	2685.1	2363.3
10°	3796.3	3786.3	3781.3	3758.6	3708.4	3645.5	3497.2	3275.9	2974.2	2916.4	2504.1
12.5°	3876.8	3876.8	3901.9	3939.7	3947.2	3927.1	3791.3	3570.1	3225.6	3165.3	2670.0
15°	3768.7	3781.3	3836.6	3957.3	4083.0	4165.9	4080.4	3874.3	3502.2	3436.8	2866.1
17.5°	3738.5	3751.1	3788.8	3894.4	4062.8	4284.1	4326.8	4168.4	3763.7	3708.4	3067.2
20°	3824.0	3836.6	3869.3	3959.8	4088.0	4311.7	4490.2	4452.5	4040.2	3982.4	3270.9
22.5°	4027.6	4035.2	4035.2	4105.6	4218.7	4384.7	4593.3	4721.5	4324.3	4261.5	3472.0
25°	4465.1	4450.0	4389.7	4354.5	4427.4	4563.2	4724.1	4957.9	4641.1	4555.6	3688.2
27.5°	5038.3	5088.6	4942.8	4774.3	4719.0	4797.0	4907.6	5166.6	4947.8	4857.3	3884.3
30°	5815.2	5795.1	5604.0	5362.7	5123.8	5096.2	5133.9	5345.1	5254.5	5169.1	4103.1
32.5°	6453.8	6491.5	6290.4	5996.2	5639.2	5470.8	5430.5	5558.8	5581.4	5526.1	4362.0
35°	7110.0	7150.2	6954.1	6627.3	6202.4	5920.8	5805.1	5822.7	5986.2	5915.8	4633.6
37.5°	7698.3	7733.5	7539.9	7205.5	6780.6	6436.2	6270.3	6134.5	6378.4	6315.5	4920.2
40°	8145.8	8150.8	8020.1	7720.9	7318.7	6961.6	6773.1	6506.6	6793.2	6750.5	5219.3
42.5°	8462.6	8472.6	8377.1	8120.7	7748.6	7416.7	7263.3	6946.6	7270.9	7233.2	5566.3
45°	8610.9	8628.5	8618.5	8382.1	8072.9	7786.3	7736.0	7414.2	7793.8	7758.6	5966.0
47.5°	8470.1	8470.1	8598.3	8565.7	8281.6	8090.5	8148.3	7901.9	8362.0	8329.3	6373.3
50°	7884.3	7891.9	8153.3	8528.0	8362.0	8319.3	8500.3	8379.6	8877.4	8897.5	6861.1
52.5°	6345.7	6333.1	7215.6	7934.6	8306.7	8422.4	8824.6	8867.4	9495.9	9556.2	7346.3
55°	4741.7	4734.1	5578.9	6883.7	7919.5	8369.6	9005.6	9302.3	10023.9	10061.6	7708.3
57.5°	3753.6	3733.5	4198.6	5548.7	7044.6	8133.2	9013.2	9385.3	10318.0	10383.4	8060.3
60°	2886.2	2868.6	3215.6	4128.2	5805.1	7504.7	8797.0	9390.3	10602.1	10717.8	8533.0
62.5°	2064.1	2084.2	2350.7	2961.7	4465.1	6617.2	8515.4	9460.7	11107.5	11238.2	9204.3
65°	1392.8	1382.8	1604.0	2016.3	3175.4	5423.0	8082.9	9609.0	12017.6	12246.4	10008.8
67.5°	967.9	975.5	1076.1	1312.4	2016.3	4163.4	7363.9	9692.0	12957.9	13136.4	10571.9
70°	698.9	709.0	764.3	882.5	1231.9	2823.4	6225.0	9312.4	13211.8	13367.7	10179.7
72.5°	460.1	480.2	563.2	626.0	786.9	1767.4	4585.8	8022.6	12118.1	12233.8	8540.5
75°	248.9	253.9	362.0	467.6	560.7	1101.2	2735.4	5410.4	9066.0	9028.3	5631.7
77.5°	193.6	201.1	223.8	334.4	377.1	605.9	1081.1	2443.7	4294.1	4178.5	1920.8
80°	118.2	123.2	155.9	198.6	264.0	352.0	316.8	663.7	872.4	817.1	281.6
82.5°	70.4	75.4	93.0	165.9	208.7	165.9	110.6	160.9	163.4	160.9	70.4
85°	12.6	12.6	65.4	115.7	110.6	47.8	65.4	52.8	47.8	50.3	15.1
87.5°	0.0	0.0	25.1	35.2	50.3	17.6	25.1	12.6	12.6	12.6	7.5
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°	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4
2.5°	2039.0	1953.5	1777.5	1624.1	1470.8	1357.6	1272.2	1184.2	1154.0	1116.3	1096.2
5°	2074.2	1905.7	1556.3	1277.2	1040.9	859.8	744.2	673.8	628.5	595.9	588.3
7.5°	2127.0	1868.0	1377.7	1000.6	741.7	560.7	465.1	417.3	392.2	377.1	372.1
10°	2189.8	1835.3	1201.8	779.4	522.9	394.7	341.9	321.8	311.8	306.7	304.2
12.5°	2277.8	1822.7	1053.4	600.9	394.7	324.3	296.7	284.1	276.6	269.0	266.5
15°	2393.5	1827.8	917.7	465.1	326.8	289.1	266.5	253.9	243.9	236.3	236.3
17.5°	2514.1	1835.3	784.4	377.1	296.7	264.0	238.8	221.2	213.7	206.2	203.6
20°	2627.3	1832.8	656.2	321.8	269.0	236.3	211.2	193.6	181.0	173.5	173.5
22.5°	2735.4	1817.7	535.5	289.1	246.4	208.7	181.0	163.4	153.4	145.8	145.8
25°	2851.0	1787.6	437.5	264.0	218.7	183.5	155.9	138.3	130.7	123.2	123.2
27.5°	2941.5	1737.3	357.0	241.4	193.6	158.4	133.2	118.2	110.6	105.6	105.6
30°	3039.6	1664.4	296.7	216.2	168.4	135.8	113.1	100.6	93.0	90.5	90.5
32.5°	3147.7	1583.9	253.9	191.1	143.3	115.7	95.5	88.0	80.5	77.9	77.9
35°	3273.4	1513.5	228.8	165.9	125.7	98.1	83.0	75.4	70.4	70.4	70.4
37.5°	3416.7	1440.6	206.2	145.8	108.1	83.0	70.4	67.9	65.4	62.9	62.9
40°	3572.6	1362.7	186.0	128.2	93.0	70.4	60.3	60.3	57.8	57.8	57.8
42.5°	3748.6	1294.8	168.4	113.1	80.5	60.3	52.8	52.8	50.3	50.3	50.3
45°	3939.7	1231.9	153.4	100.6	70.4	52.8	47.8	45.3	42.7	42.7	42.7
47.5°	4165.9	1196.7	140.8	88.0	60.3	45.3	40.2	37.7	35.2	32.7	32.7
50°	4455.1	1211.8	128.2	72.9	52.8	37.7	32.7	30.2	27.7	25.1	25.1
52.5°	4683.8	1204.3	110.6	62.9	42.7	30.2	25.1	22.6	20.1	17.6	17.6
55°	4849.8	1174.1	95.5	52.8	32.7	25.1	20.1	15.1	12.6	12.6	12.6
57.5°	5013.2	1143.9	80.5	42.7	25.1	17.6	12.6	10.1	10.1	10.1	10.1
60°	5267.1	1101.2	70.4	35.2	20.1	12.6	7.5	7.5	5.0	5.0	5.0
62.5°	5576.4	1048.4	57.8	30.2	15.1	10.1	5.0	5.0	0.0	0.0	0.0
65°	5915.8	955.4	47.8	22.6	12.6	7.5	5.0	0.0	0.0	0.0	0.0
67.5°	5837.8	766.8	40.2	15.1	10.1	5.0	2.5	0.0	0.0	0.0	0.0
70°	5164.0	517.9	32.7	12.6	7.5	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	4045.2	306.7	22.6	10.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0
75°	2589.6	153.4	15.1	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	867.4	75.4	10.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	123.2	25.1	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.7	10.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	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)