

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: P399462

Luminaire Tested: **ARCH-L-PA3-140-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399462
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-PA3-140-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 620mA 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: 14253 lumens
Efficiency: N/A
Efficacy: 99.7 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

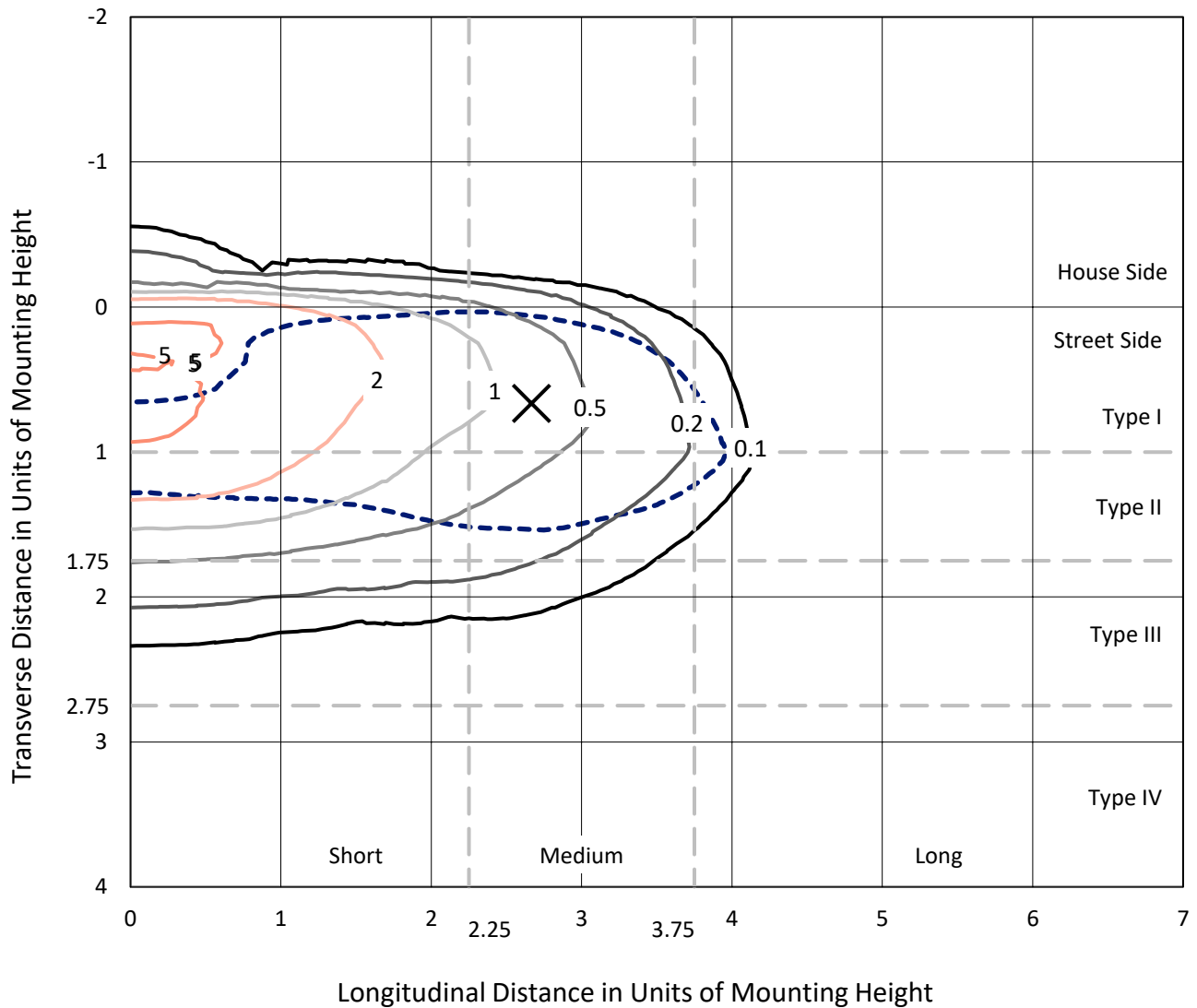
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

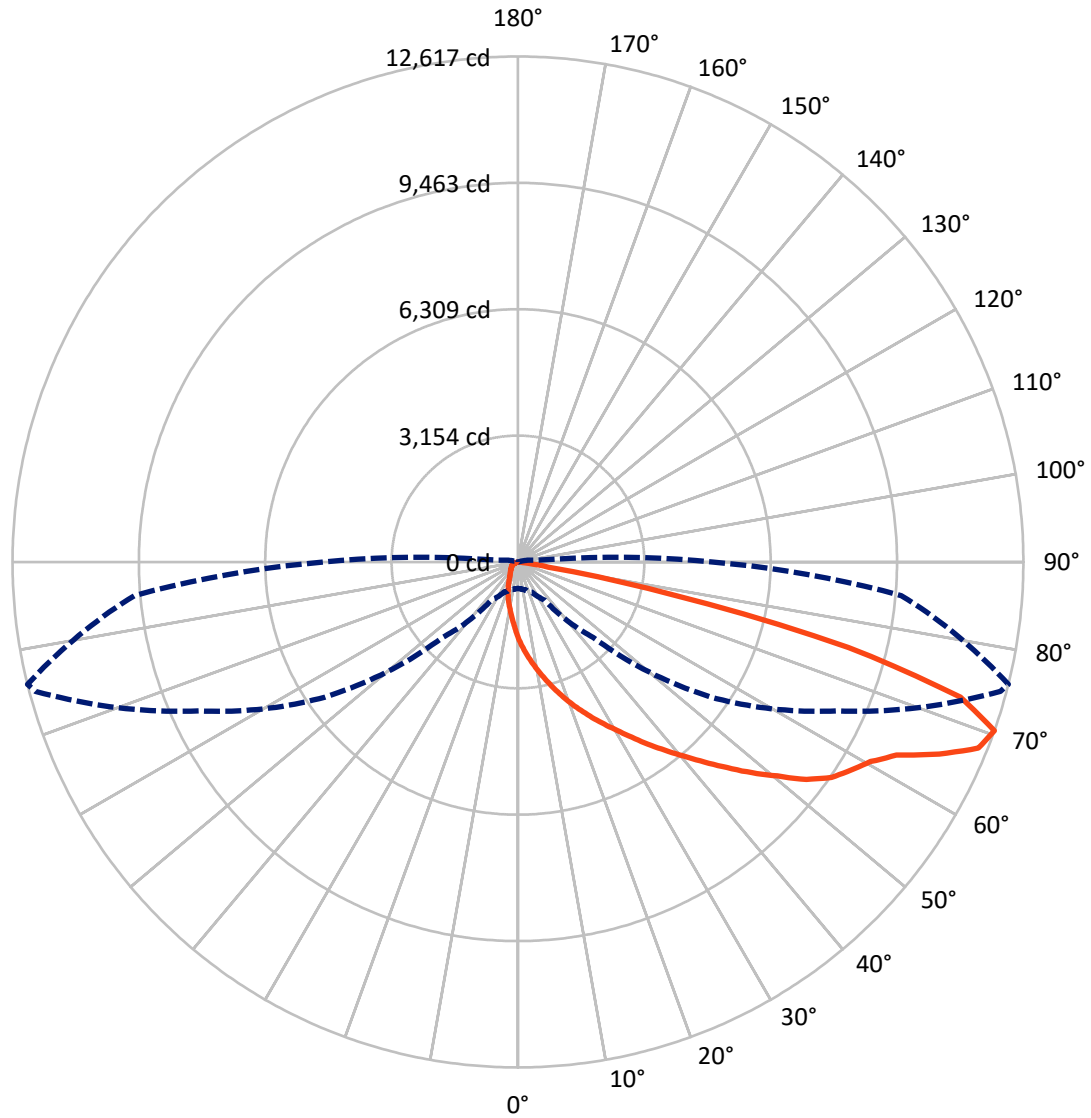
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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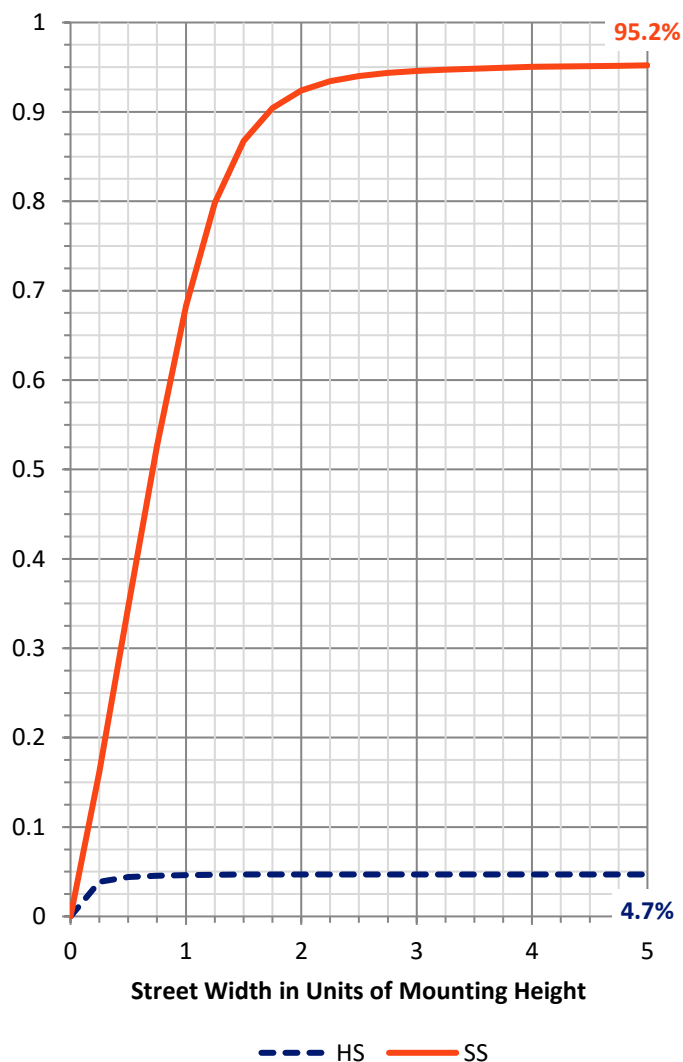
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.2	0.0	672.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13580.8	0.0	13580.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	14253.0	0.0	14253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.3
10°-20°	580.1	4.1
20°-30°	1080.3	7.6
30°-40°	1910.9	13.4
40°-50°	2922.2	20.5
50°-60°	3313.1	23.2
60°-70°	2840.1	19.9
70°-80°	1375.6	9.7
80°-90°	51.0	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°	14253.0	100.0
0°-180°	14253.0	100.0

Coefficient of Utilization

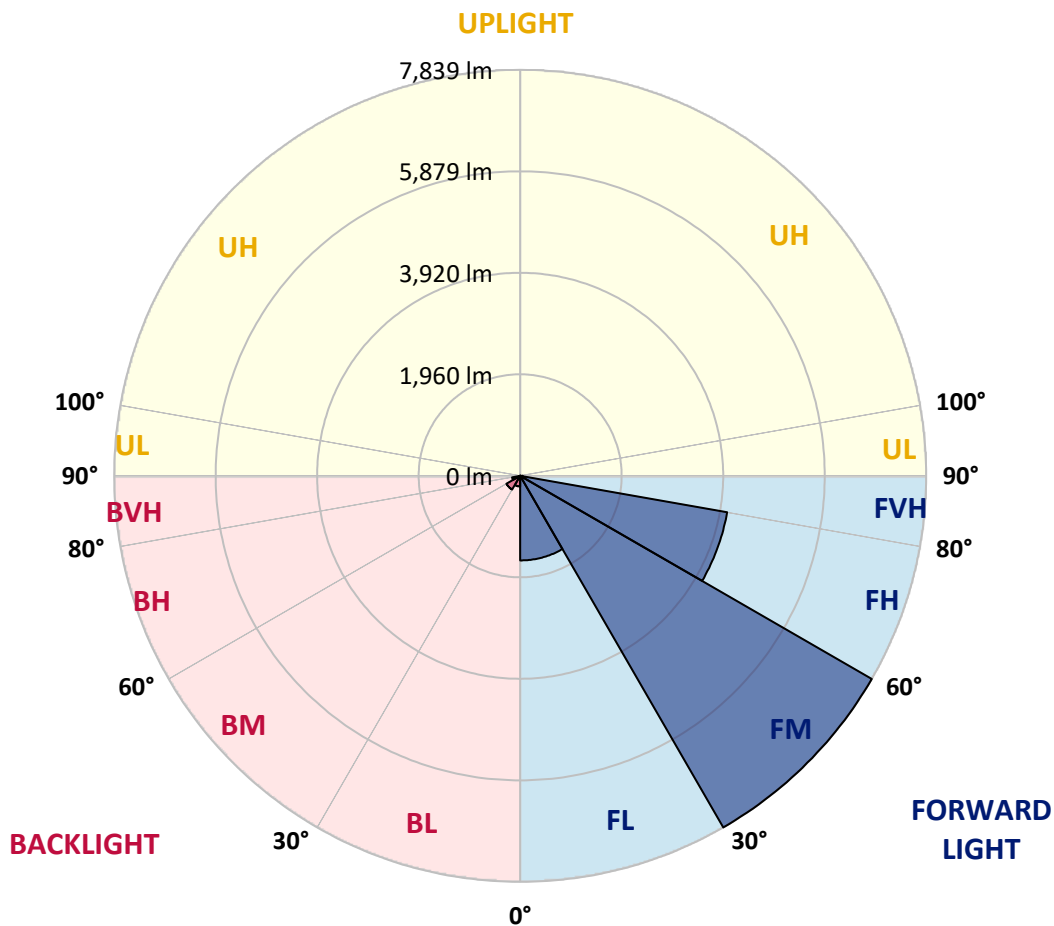


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.9	11.5			
FM (30°-60°)	7839.3	55.0			
FH (60°-80°)	4057.4	28.5			G2/5000
FVH (80°-90°)	50.2	0.4			G1/100
BL (0°-30°)	206.2	1.4	B1/500		
BM (30°-60°)	306.8	2.2	B1/1000		
BH (60°-80°)	158.3	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°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	2607.9	2593.6	2579.4	2524.8	2475.0	2429.9	2344.5	2233.0	2133.3	2111.9	1995.7
5°	3063.5	3046.9	3025.5	2970.9	2906.9	2830.9	2705.2	2534.3	2358.7	2320.7	2104.8
7.5°	3372.0	3357.7	3326.9	3300.8	3236.7	3163.1	3023.1	2823.8	2581.8	2534.3	2230.6
10°	3583.2	3573.7	3568.9	3547.6	3500.1	3440.8	3300.8	3092.0	2807.2	2752.6	2363.5
12.5°	3659.1	3659.1	3682.8	3718.4	3725.5	3706.6	3578.4	3369.6	3044.5	2987.5	2520.1
15°	3557.1	3568.9	3621.1	3735.0	3853.7	3932.0	3851.3	3656.7	3305.5	3243.8	2705.2
17.5°	3528.6	3540.4	3576.0	3675.7	3834.7	4043.5	4083.9	3934.4	3552.3	3500.1	2895.0
20°	3609.3	3621.1	3652.0	3737.4	3858.4	4069.6	4238.1	4202.5	3813.3	3758.8	3087.2
22.5°	3801.5	3808.6	3808.6	3875.0	3981.8	4138.4	4335.4	4456.4	4081.5	4022.2	3277.1
25°	4214.4	4200.1	4143.2	4110.0	4178.8	4306.9	4458.8	4679.5	4380.5	4299.8	3481.1
27.5°	4755.4	4802.9	4665.2	4506.2	4454.0	4527.6	4632.0	4876.4	4670.0	4584.5	3666.2
30°	5488.6	5469.7	5289.3	5061.5	4836.1	4810.0	4845.6	5044.9	4959.5	4878.8	3872.7
32.5°	6091.4	6127.0	5937.1	5659.5	5322.5	5163.5	5125.6	5246.6	5268.0	5215.8	4117.1
35°	6710.7	6748.7	6563.6	6255.1	5854.1	5588.3	5479.2	5495.8	5650.0	5583.6	4373.4
37.5°	7266.0	7299.2	7116.5	6800.9	6399.9	6074.8	5918.1	5790.0	6020.2	5960.9	4643.9
40°	7688.4	7693.1	7569.7	7287.3	6907.7	6570.7	6392.7	6141.2	6411.7	6371.4	4926.3
42.5°	7987.4	7996.9	7906.7	7664.6	7313.4	7000.2	6855.5	6556.5	6862.6	6827.0	5253.7
45°	8127.4	8144.0	8134.5	7911.4	7619.6	7349.0	7301.6	6997.8	7356.2	7322.9	5631.0
47.5°	7994.5	7994.5	8115.5	8084.7	7816.5	7636.2	7690.7	7458.2	7892.4	7861.6	6015.4
50°	7441.6	7448.7	7695.5	8049.1	7892.4	7852.1	8023.0	7909.1	8378.9	8397.9	6475.8
52.5°	5989.3	5977.5	6810.4	7489.0	7840.2	7949.4	8329.1	8369.4	8962.6	9019.6	6933.8
55°	4475.4	4468.3	5265.6	6497.1	7474.8	7899.6	8499.9	8779.9	9461.0	9496.6	7275.5
57.5°	3542.8	3523.8	3962.8	5237.1	6649.0	7676.5	8507.0	8858.2	9738.6	9800.3	7607.7
60°	2724.2	2707.5	3035.0	3896.4	5479.2	7083.3	8303.0	8863.0	10006.8	10115.9	8053.8
62.5°	1948.2	1967.2	2218.7	2795.3	4214.4	6245.6	8037.2	8929.4	10483.7	10607.1	8687.4
65°	1314.6	1305.1	1513.9	1903.1	2997.0	5118.5	7629.0	9069.4	11342.7	11558.7	9446.7
67.5°	913.6	920.7	1015.6	1238.7	1903.1	3929.6	6950.4	9147.7	12230.2	12398.7	9978.3
70°	659.7	669.2	721.4	832.9	1162.7	2664.8	5875.4	8789.4	12469.9	12617.0	9608.1
72.5°	434.3	453.2	531.5	590.9	742.7	1668.2	4328.3	7572.1	11437.6	11546.8	8060.9
75°	234.9	239.7	341.7	441.4	529.2	1039.4	2581.8	5106.6	8556.9	8521.3	5315.4
77.5°	182.7	189.8	211.2	315.6	355.9	571.9	1020.4	2306.5	4053.0	3943.9	1812.9
80°	111.5	116.3	147.1	187.5	249.2	332.2	299.0	626.5	823.4	771.2	265.8
82.5°	66.4	71.2	87.8	156.6	197.0	156.6	104.4	151.9	154.2	151.9	66.4
85°	11.9	11.9	61.7	109.2	104.4	45.1	61.7	49.8	45.1	47.5	14.2
87.5°	0.0	0.0	23.7	33.2	47.5	16.6	23.7	11.9	11.9	11.9	7.1
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°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1924.5	1843.8	1677.7	1532.9	1388.2	1281.4	1200.7	1117.7	1089.2	1053.6	1034.6
5°	1957.7	1798.7	1468.9	1205.5	982.4	811.6	702.4	636.0	593.2	562.4	555.3
7.5°	2007.5	1763.1	1300.4	944.4	700.0	529.2	439.0	393.9	370.2	355.9	351.2
10°	2066.8	1732.3	1134.3	735.6	493.6	372.6	322.7	303.7	294.2	289.5	287.1
12.5°	2149.9	1720.4	994.3	567.1	372.6	306.1	280.0	268.1	261.0	253.9	251.5
15°	2259.1	1725.1	866.1	439.0	308.5	272.9	251.5	239.7	230.2	223.1	223.1
17.5°	2373.0	1732.3	740.4	355.9	280.0	249.2	225.4	208.8	201.7	194.6	192.2
20°	2479.7	1729.9	619.3	303.7	253.9	223.1	199.3	182.7	170.9	163.7	163.7
22.5°	2581.8	1715.6	505.4	272.9	232.5	197.0	170.9	154.2	144.8	137.6	137.6
25°	2690.9	1687.2	412.9	249.2	206.4	173.2	147.1	130.5	123.4	116.3	116.3
27.5°	2776.4	1639.7	337.0	227.8	182.7	149.5	125.8	111.5	104.4	99.7	99.7
30°	2868.9	1570.9	280.0	204.1	159.0	128.1	106.8	94.9	87.8	85.4	85.4
32.5°	2970.9	1495.0	239.7	180.3	135.3	109.2	90.2	83.1	75.9	73.6	73.6
35°	3089.6	1428.5	215.9	156.6	118.6	92.5	78.3	71.2	66.4	66.4	66.4
37.5°	3224.8	1359.7	194.6	137.6	102.0	78.3	66.4	64.1	61.7	59.3	59.3
40°	3372.0	1286.1	175.6	121.0	87.8	66.4	57.0	57.0	54.6	54.6	54.6
42.5°	3538.1	1222.1	159.0	106.8	75.9	57.0	49.8	49.8	47.5	47.5	47.5
45°	3718.4	1162.7	144.8	94.9	66.4	49.8	45.1	42.7	40.3	40.3	40.3
47.5°	3932.0	1129.5	132.9	83.1	57.0	42.7	38.0	35.6	33.2	30.8	30.8
50°	4204.9	1143.8	121.0	68.8	49.8	35.6	30.8	28.5	26.1	23.7	23.7
52.5°	4420.8	1136.6	104.4	59.3	40.3	28.5	23.7	21.4	19.0	16.6	16.6
55°	4577.4	1108.2	90.2	49.8	30.8	23.7	19.0	14.2	11.9	11.9	11.9
57.5°	4731.7	1079.7	75.9	40.3	23.7	16.6	11.9	9.5	9.5	9.5	9.5
60°	4971.3	1039.4	66.4	33.2	19.0	11.9	7.1	7.1	4.7	4.7	4.7
62.5°	5263.2	989.5	54.6	28.5	14.2	9.5	4.7	4.7	0.0	0.0	0.0
65°	5583.6	901.7	45.1	21.4	11.9	7.1	4.7	0.0	0.0	0.0	0.0
67.5°	5510.0	723.8	38.0	14.2	9.5	4.7	2.4	0.0	0.0	0.0	0.0
70°	4874.0	488.8	30.8	11.9	7.1	4.7	2.4	0.0	0.0	0.0	0.0
72.5°	3818.1	289.5	21.4	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0
75°	2444.1	144.8	14.2	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	818.7	71.2	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.3	23.7	4.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	9.5	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	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)