

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: P399237

Luminaire Tested: **ARCH-L-PA3-110-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399237
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-PA3-110-827-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 485mA 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: 10728 lumens
Efficiency: N/A
Efficacy: 94.9 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

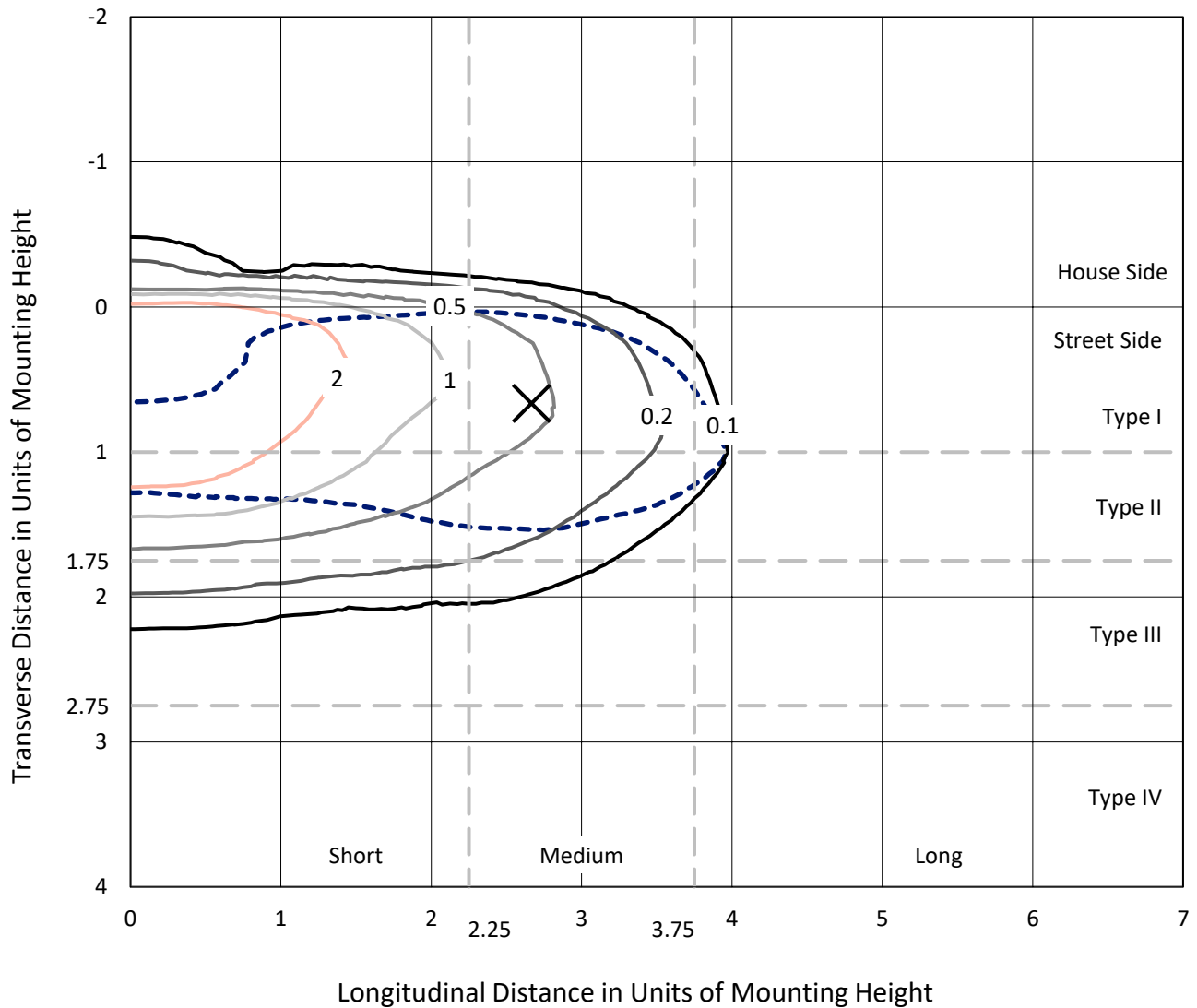
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399237
 CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

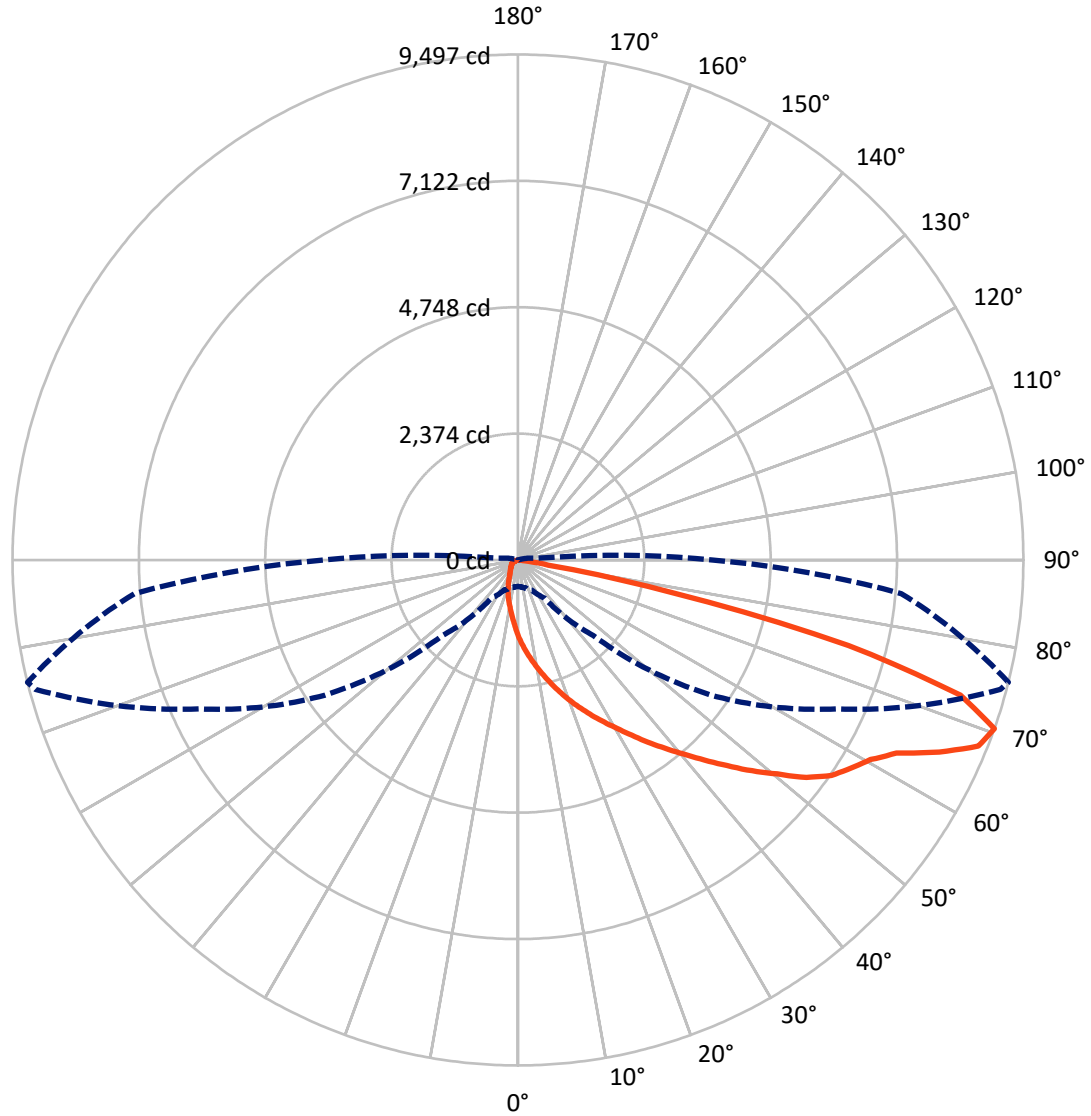
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P399237
CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399237
 CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

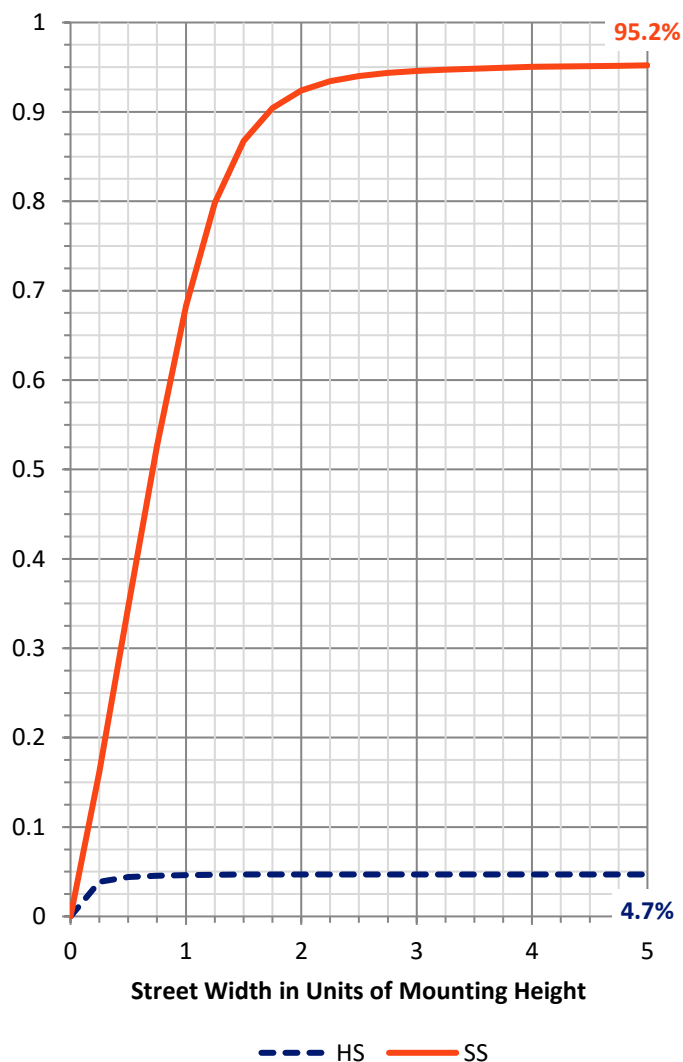
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.0	0.0	506.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10222.0	0.0	10222.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	10728.0	0.0	10728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.3
10°-20°	436.6	4.1
20°-30°	813.2	7.6
30°-40°	1438.3	13.4
40°-50°	2199.5	20.5
50°-60°	2493.7	23.2
60°-70°	2137.7	19.9
70°-80°	1035.4	9.7
80°-90°	38.4	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°	10728.0	100.0
0°-180°	10728.0	100.0

Coefficient of Utilization

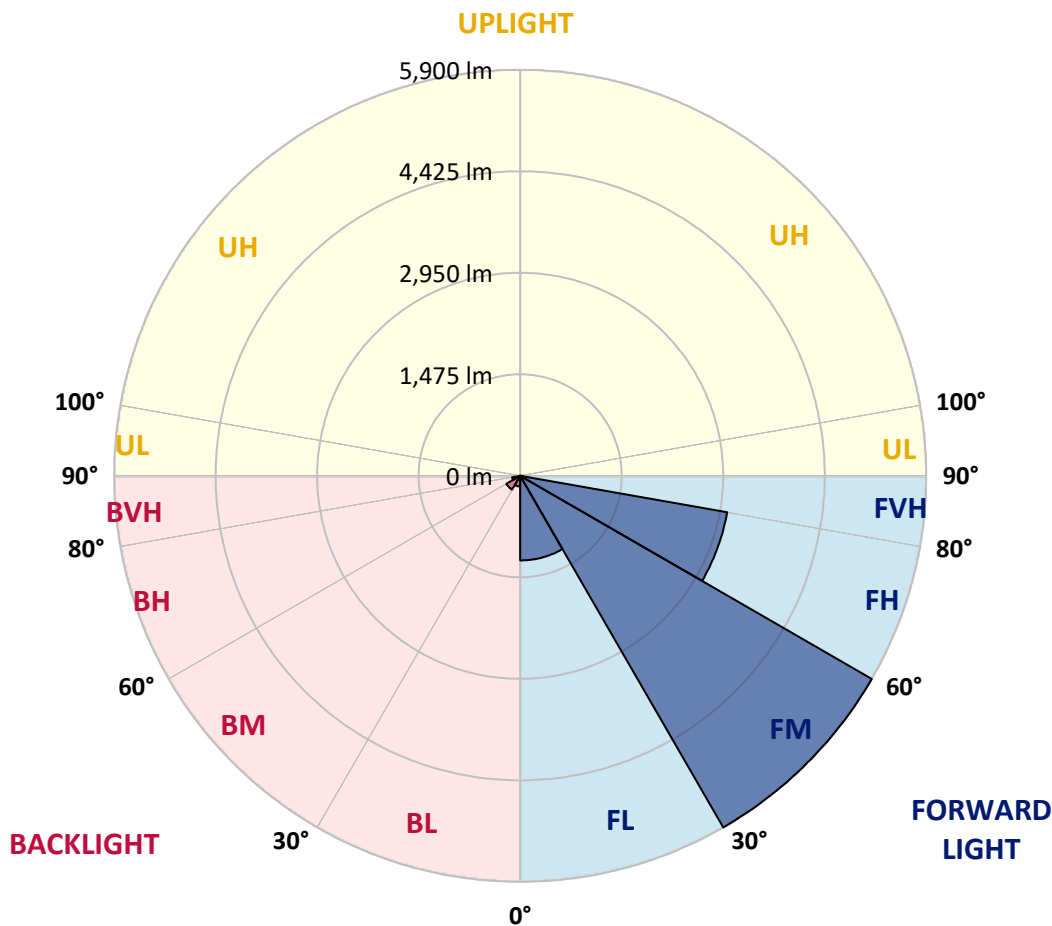


REPORT NUMBER: P399237
 CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.8	11.5			
FM (30°-60°)	5900.5	55.0			
FH (60°-80°)	3053.9	28.5			G2/5000
FVH (80°-90°)	37.7	0.4			G1/100
BL (0°-30°)	155.2	1.4	B1/500		
BM (30°-60°)	231.0	2.2	B1/1000		
BH (60°-80°)	119.1	1.1	B1/500		G1/500
BVH (80°-90°)	0.7	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





REPORT NUMBER: P399237

CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1962.9	1952.2	1941.5	1900.4	1862.9	1829.0	1764.7	1680.7	1605.7	1589.6	1502.1
5°	2305.8	2293.3	2277.3	2236.2	2188.0	2130.8	2036.1	1907.5	1775.4	1746.8	1584.3
7.5°	2538.0	2527.3	2504.1	2484.4	2436.2	2380.9	2275.5	2125.4	1943.3	1907.5	1678.9
10°	2697.0	2689.8	2686.3	2670.2	2634.5	2589.8	2484.4	2327.3	2112.9	2071.9	1778.9
12.5°	2754.1	2754.1	2772.0	2798.8	2804.2	2789.9	2693.4	2536.2	2291.5	2248.7	1896.8
15°	2677.3	2686.3	2725.6	2811.3	2900.6	2959.5	2898.8	2752.4	2488.0	2441.6	2036.1
17.5°	2655.9	2664.8	2691.6	2766.6	2886.3	3043.5	3073.9	2961.3	2673.8	2634.5	2179.0
20°	2716.6	2725.6	2748.8	2813.1	2904.2	3063.1	3189.9	3163.2	2870.2	2829.2	2323.7
22.5°	2861.3	2866.7	2866.7	2916.7	2997.0	3114.9	3263.2	3354.3	3072.1	3027.4	2466.6
25°	3172.1	3161.4	3118.5	3093.5	3145.3	3241.7	3356.1	3522.2	3297.1	3236.4	2620.2
27.5°	3579.3	3615.0	3511.4	3391.8	3352.5	3407.8	3486.4	3670.4	3515.0	3450.7	2759.5
30°	4131.2	4116.9	3981.2	3809.7	3640.0	3620.4	3647.2	3797.2	3732.9	3672.2	2914.9
32.5°	4584.9	4611.7	4468.8	4259.8	4006.2	3886.5	3857.9	3949.0	3965.1	3925.8	3098.9
35°	5051.0	5079.6	4940.3	4708.1	4406.3	4206.2	4124.1	4136.6	4252.7	4202.7	3291.8
37.5°	5469.0	5494.0	5356.5	5118.9	4817.1	4572.4	4454.5	4358.0	4531.3	4486.6	3495.4
40°	5786.9	5790.5	5697.6	5485.1	5199.3	4945.7	4811.7	4622.4	4826.0	4795.6	3707.9
42.5°	6012.0	6019.1	5951.2	5769.1	5504.7	5268.9	5160.0	4935.0	5165.4	5138.6	3954.4
45°	6117.3	6129.8	6122.7	5954.8	5735.1	5531.5	5495.8	5267.2	5536.9	5511.9	4238.4
47.5°	6017.3	6017.3	6108.4	6085.2	5883.4	5747.6	5788.7	5613.7	5940.5	5917.3	4527.7
50°	5601.2	5606.5	5792.3	6058.4	5940.5	5910.2	6038.8	5953.0	6306.7	6321.0	4874.2
52.5°	4508.1	4499.1	5126.1	5636.9	5901.2	5983.4	6269.2	6299.5	6746.0	6788.9	5218.9
55°	3368.6	3363.2	3963.3	4890.3	5626.2	5945.9	6397.8	6608.5	7121.1	7147.9	5476.1
57.5°	2666.6	2652.3	2982.8	3941.9	5004.6	5778.0	6403.1	6667.5	7330.1	7376.5	5726.2
60°	2050.4	2037.9	2284.4	2932.8	4124.1	5331.5	6249.5	6671.0	7531.9	7614.1	6062.0
62.5°	1466.4	1480.7	1670.0	2104.0	3172.1	4701.0	6049.5	6721.0	7890.9	7983.8	6538.9
65°	989.5	982.3	1139.5	1432.4	2255.8	3852.6	5742.3	6826.4	8537.5	8700.0	7110.4
67.5°	687.6	693.0	764.4	932.3	1432.4	2957.8	5231.4	6885.4	9205.5	9332.3	7510.5
70°	496.5	503.7	543.0	626.9	875.2	2005.8	4422.3	6615.7	9385.9	9496.6	7231.9
72.5°	326.9	341.1	400.1	444.7	559.0	1255.6	3257.8	5699.4	8608.9	8691.1	6067.3
75°	176.8	180.4	257.2	332.2	398.3	782.3	1943.3	3843.7	6440.6	6413.8	4000.8
77.5°	137.5	142.9	159.0	237.5	267.9	430.4	768.0	1736.1	3050.6	2968.5	1364.6
80°	83.9	87.5	110.7	141.1	187.5	250.1	225.0	471.5	619.8	580.5	200.0
82.5°	50.0	53.6	66.1	117.9	148.2	117.9	78.6	114.3	116.1	114.3	50.0
85°	8.9	8.9	46.4	82.2	78.6	33.9	46.4	37.5	33.9	35.7	10.7
87.5°	0.0	0.0	17.9	25.0	35.7	12.5	17.9	8.9	8.9	8.9	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399237
 CATALOG NUMBER: ARCH-L-PA3-110-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1448.5	1387.8	1262.8	1153.8	1044.9	964.5	903.8	841.2	819.8	793.0	778.7
5°	1473.5	1353.9	1105.6	907.3	739.4	610.8	528.7	478.7	446.5	423.3	417.9
7.5°	1511.0	1327.1	978.8	710.9	526.9	398.3	330.4	296.5	278.6	267.9	264.3
10°	1555.7	1303.8	853.7	553.7	371.5	280.4	242.9	228.6	221.5	217.9	216.1
12.5°	1618.2	1294.9	748.4	426.9	280.4	230.4	210.8	201.8	196.5	191.1	189.3
15°	1700.4	1298.5	651.9	330.4	232.2	205.4	189.3	180.4	173.3	167.9	167.9
17.5°	1786.1	1303.8	557.3	267.9	210.8	187.5	169.7	157.2	151.8	146.5	144.7
20°	1866.5	1302.1	466.2	228.6	191.1	167.9	150.0	137.5	128.6	123.2	123.2
22.5°	1943.3	1291.3	380.4	205.4	175.0	148.2	128.6	116.1	109.0	103.6	103.6
25°	2025.4	1269.9	310.8	187.5	155.4	130.4	110.7	98.2	92.9	87.5	87.5
27.5°	2089.7	1234.2	253.6	171.5	137.5	112.5	94.7	83.9	78.6	75.0	75.0
30°	2159.4	1182.4	210.8	153.6	119.7	96.4	80.4	71.4	66.1	64.3	64.3
32.5°	2236.2	1125.2	180.4	135.7	101.8	82.2	67.9	62.5	57.2	55.4	55.4
35°	2325.5	1075.2	162.5	117.9	89.3	69.7	58.9	53.6	50.0	50.0	50.0
37.5°	2427.3	1023.4	146.5	103.6	76.8	58.9	50.0	48.2	46.4	44.7	44.7
40°	2538.0	968.1	132.2	91.1	66.1	50.0	42.9	42.9	41.1	41.1	41.1
42.5°	2663.1	919.8	119.7	80.4	57.2	42.9	37.5	37.5	35.7	35.7	35.7
45°	2798.8	875.2	109.0	71.4	50.0	37.5	33.9	32.1	30.4	30.4	30.4
47.5°	2959.5	850.2	100.0	62.5	42.9	32.1	28.6	26.8	25.0	23.2	23.2
50°	3164.9	860.9	91.1	51.8	37.5	26.8	23.2	21.4	19.6	17.9	17.9
52.5°	3327.5	855.5	78.6	44.7	30.4	21.4	17.9	16.1	14.3	12.5	12.5
55°	3445.4	834.1	67.9	37.5	23.2	17.9	14.3	10.7	8.9	8.9	8.9
57.5°	3561.5	812.7	57.2	30.4	17.9	12.5	8.9	7.1	7.1	7.1	7.1
60°	3741.8	782.3	50.0	25.0	14.3	8.9	5.4	5.4	3.6	3.6	3.6
62.5°	3961.5	744.8	41.1	21.4	10.7	7.1	3.6	3.6	0.0	0.0	0.0
65°	4202.7	678.7	33.9	16.1	8.9	5.4	3.6	0.0	0.0	0.0	0.0
67.5°	4147.3	544.8	28.6	10.7	7.1	3.6	1.8	0.0	0.0	0.0	0.0
70°	3668.6	367.9	23.2	8.9	5.4	3.6	1.8	0.0	0.0	0.0	0.0
72.5°	2873.8	217.9	16.1	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	1839.7	109.0	10.7	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	616.2	53.6	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.5	17.9	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	7.1	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	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)