

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: P399909

Luminaire Tested: **ARCH-L-PA3-210-722-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399909
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-PA3-210-722-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 900mA 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: 15848 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

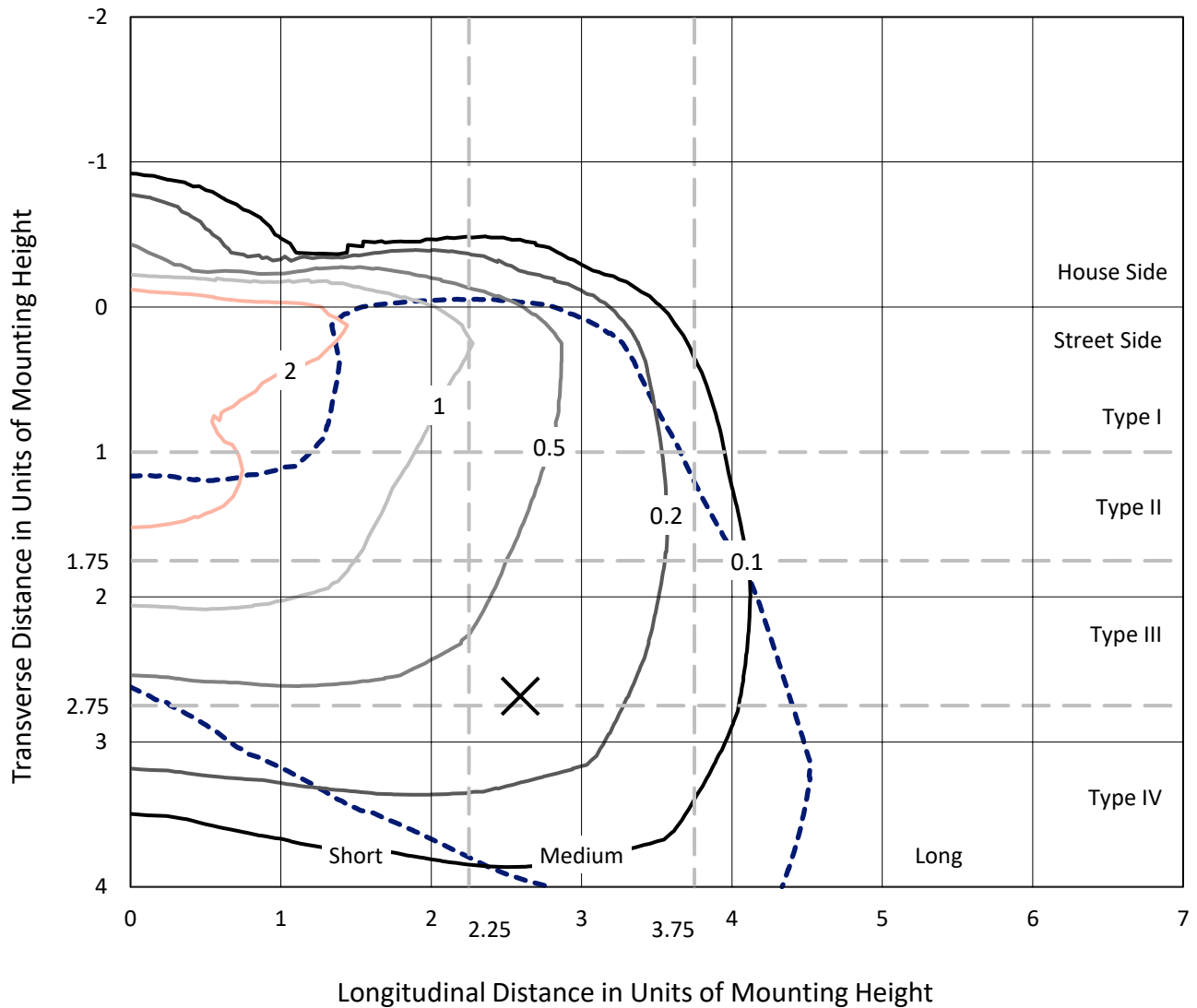
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399909
 CATALOG NUMBER: ARCH-L-PA3-210-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

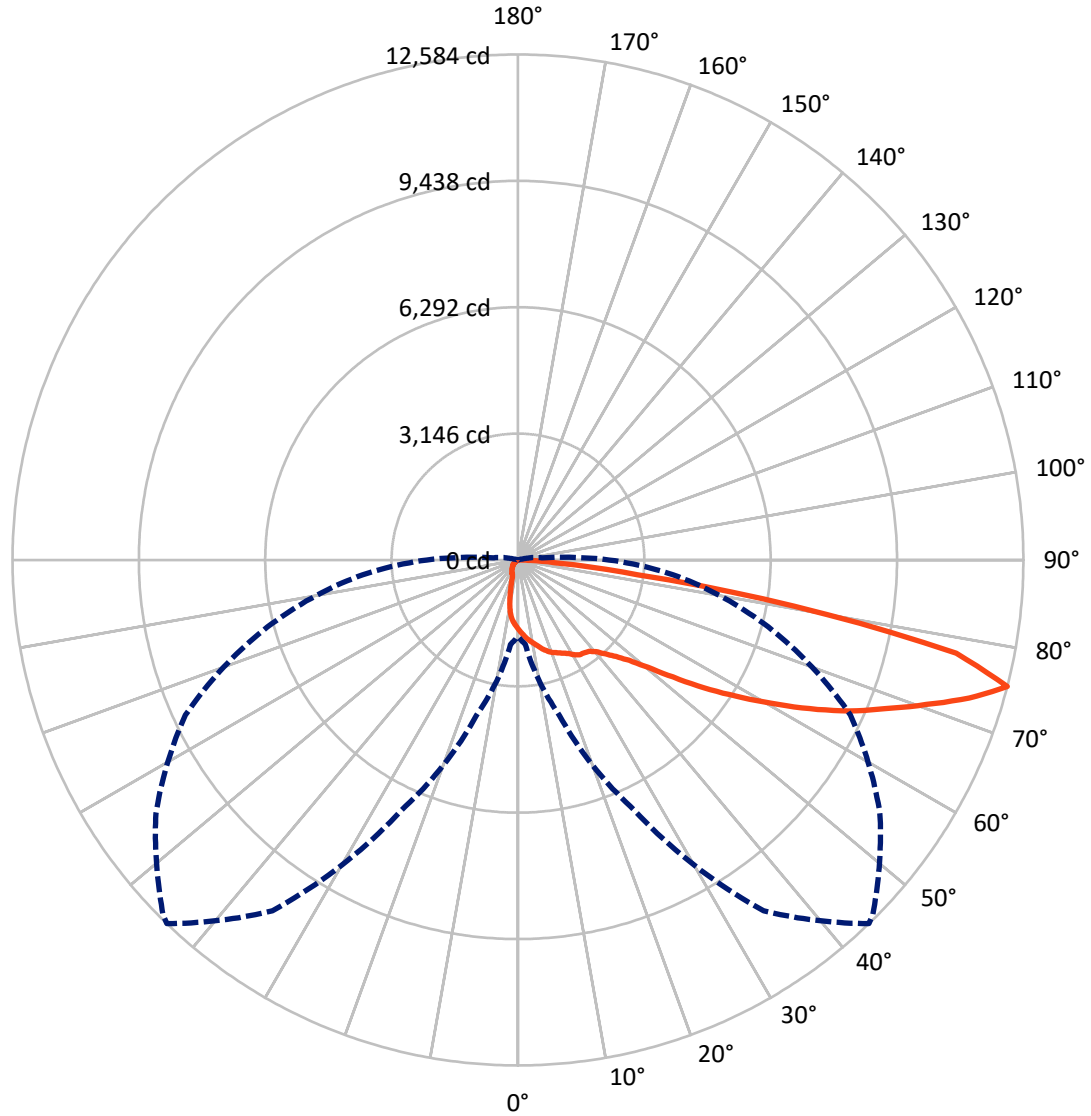
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399909
CATALOG NUMBER: ARCH-L-PA3-210-722-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399909
 CATALOG NUMBER: ARCH-L-PA3-210-722-U-T4W-HSS

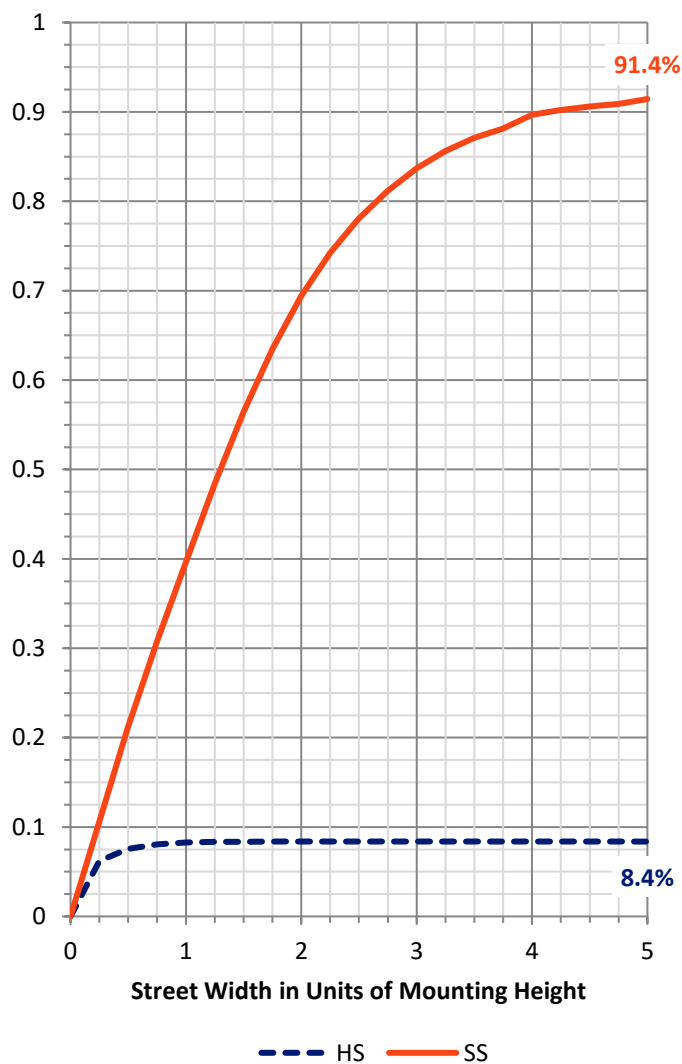
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1336.5	0.0	1336.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14511.5	0.0	14511.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	15848.0	0.0	15848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.0
10°-20°	455.8	2.9
20°-30°	752.3	4.7
30°-40°	1091.9	6.9
40°-50°	1774.9	11.2
50°-60°	3128.9	19.7
60°-70°	4496.9	28.4
70°-80°	3601.0	22.7
80°-90°	383.7	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°	15848.0	100.0
0°-180°	15848.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399909

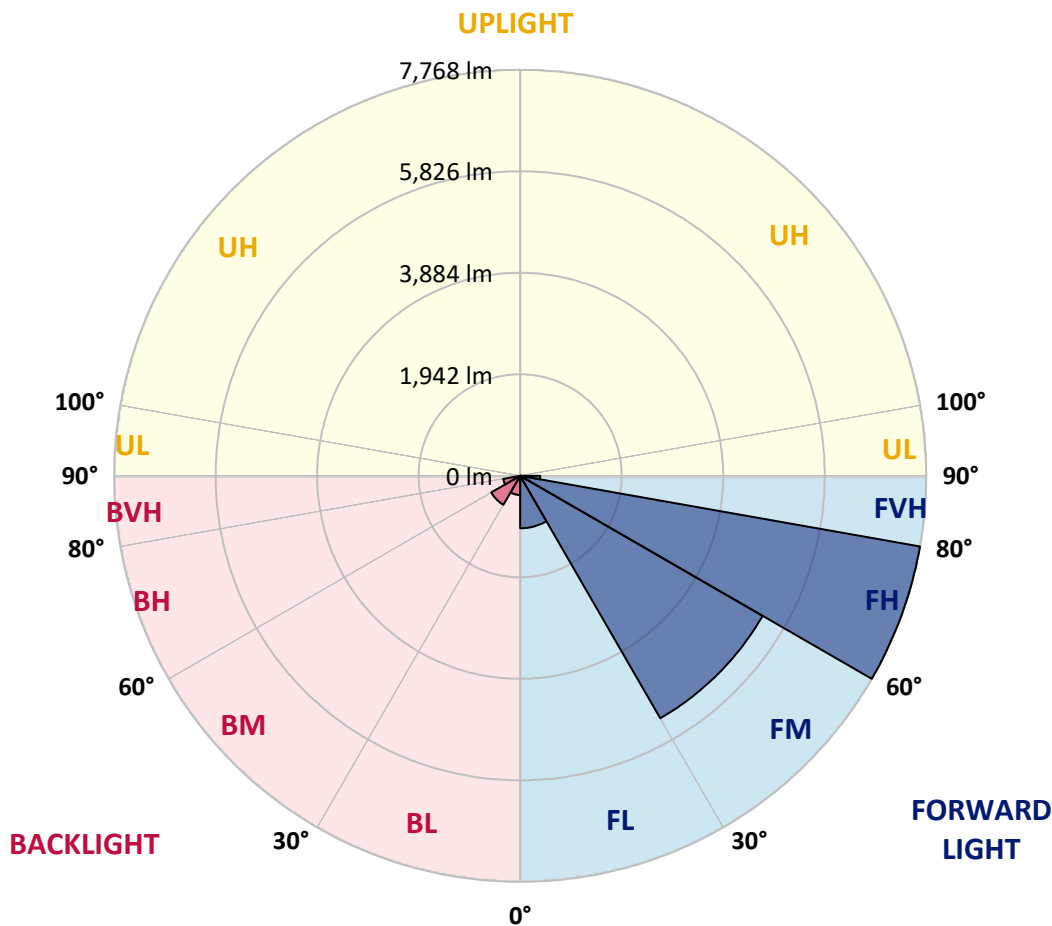
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.6	6.3			
FM (30°-60°)	5356.8	33.8			
FH (60°-80°)	7768.4	49.0			G4/12000
FVH (80°-90°)	382.7	2.4			G3/500
BL (0°-30°)	367.2	2.3	B1/500		
BM (30°-60°)	638.9	4.0	B1/1000		
BH (60°-80°)	329.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	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-G4

Type IV Medium





REPORT NUMBER: P399909

CATALOG NUMBER: ARCH-L-PA3-210-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0
2.5°	1880.0	1877.0	1868.3	1853.6	1839.0	1824.4	1821.5	1798.1	1771.8	1751.3	1733.8
5°	2046.6	2043.7	2029.1	1996.9	1964.7	1926.7	1923.8	1868.3	1818.6	1763.0	1716.2
7.5°	2219.1	2213.3	2186.9	2137.2	2081.7	2023.2	2017.4	1935.5	1862.4	1789.3	1722.1
10°	2353.6	2347.7	2309.7	2251.3	2175.2	2102.2	2093.4	2008.6	1935.5	1841.9	1751.3
12.5°	2485.2	2473.5	2423.8	2359.4	2265.9	2195.7	2186.9	2099.2	2011.5	1915.0	1803.9
15°	2608.0	2593.3	2546.6	2464.7	2365.3	2298.0	2292.2	2198.6	2108.0	1996.9	1874.1
17.5°	2692.7	2686.9	2631.3	2540.7	2444.2	2388.7	2382.8	2286.3	2195.7	2078.8	1947.2
20°	2736.6	2736.6	2684.0	2584.6	2496.9	2458.8	2450.1	2359.4	2271.7	2160.6	2023.2
22.5°	2745.4	2754.1	2713.2	2605.0	2540.7	2508.6	2502.7	2423.8	2339.0	2236.6	2108.0
25°	2762.9	2762.9	2742.4	2625.5	2578.7	2569.9	2567.0	2496.9	2420.8	2318.5	2192.8
27.5°	2783.4	2783.4	2768.8	2654.7	2637.2	2634.3	2631.3	2599.2	2537.8	2417.9	2292.2
30°	2836.0	2838.9	2827.2	2713.2	2701.5	2733.7	2739.5	2722.0	2646.0	2496.9	2394.5
32.5°	2967.6	2941.3	2909.1	2754.1	2774.6	2815.5	2818.5	2783.4	2701.5	2581.6	2517.3
35°	3298.0	3143.0	2996.8	2789.2	2798.0	2838.9	2844.8	2841.9	2792.2	2689.8	2657.7
37.5°	3604.9	3385.7	3178.1	2871.1	2841.9	2885.7	2897.4	2947.1	2909.1	2838.9	2847.7
40°	3783.3	3698.5	3552.3	3096.2	2929.6	2996.8	3008.5	3084.5	3069.9	3040.7	3096.2
42.5°	4333.0	4338.8	4180.9	3432.4	3090.4	3198.5	3213.2	3274.6	3295.0	3309.7	3444.1
45°	4970.3	4990.8	4952.8	4037.7	3394.4	3429.5	3450.0	3531.9	3607.9	3701.4	3947.0
47.5°	5736.3	5718.8	5578.5	4777.4	3923.6	3727.7	3742.4	3900.2	4031.8	4236.5	4587.3
50°	6414.6	6458.5	6192.4	5467.4	4669.2	4198.5	4183.8	4338.8	4575.6	4862.1	5303.6
52.5°	7098.8	7034.5	6674.9	6151.5	5552.1	4838.8	4794.9	4879.7	5213.0	5552.1	6005.3
55°	7280.1	7285.9	7163.1	6900.0	6288.9	5616.5	5543.4	5537.5	5952.7	6183.7	6742.1
57.5°	7636.8	7651.4	7680.6	7733.2	7443.8	6394.2	6318.2	6236.3	6639.8	6774.3	7481.8
60°	7999.3	8016.8	8195.2	8478.8	8285.8	7233.3	7151.4	6958.5	7183.6	7364.9	8259.5
62.5°	7952.5	8075.3	8592.8	9157.1	9133.7	8154.3	8051.9	7587.1	7730.3	7888.2	8972.9
65°	7180.7	7312.2	8475.9	9344.2	9984.5	9063.5	8896.9	8236.1	8244.9	8434.9	9660.0
67.5°	6490.7	6633.9	7744.9	9265.3	10545.9	9879.2	9706.7	8888.1	8750.7	9066.5	10028.4
70°	6093.0	6236.3	7163.1	9019.7	10703.7	10782.7	10633.6	9633.7	9353.0	9642.4	9616.1
72.5°	4768.6	4993.7	6420.5	8551.9	10873.3	11750.4	11633.5	10578.0	9864.6	9040.1	7321.0
75°	1900.4	2108.0	4008.4	6882.4	10659.9	12583.7	12493.1	11002.0	9130.8	6455.6	3748.2
77.5°	573.0	614.0	1113.9	3403.2	7815.1	11156.9	11127.7	9250.6	6461.4	2996.8	1023.3
80°	190.0	210.5	342.1	938.5	3566.9	6970.1	7101.7	5894.2	2935.4	687.1	207.6
82.5°	78.9	87.7	172.5	377.2	1263.0	3002.7	2958.8	2640.1	1023.3	426.9	76.0
85°	20.5	26.3	78.9	216.4	461.9	1035.0	1087.6	885.9	578.9	353.8	23.4
87.5°	0.0	0.0	38.0	87.7	207.6	312.8	327.5	269.0	327.5	266.1	11.7
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: P399909

CATALOG NUMBER: ARCH-L-PA3-210-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0	1725.0
2.5°	1719.1	1704.5	1678.2	1660.7	1637.3	1631.4	1619.7	1605.1	1602.2	1587.6	1590.5
5°	1689.9	1666.5	1619.7	1587.6	1549.6	1537.9	1517.4	1502.8	1491.1	1470.6	1473.6
7.5°	1684.1	1649.0	1584.7	1523.3	1461.9	1418.0	1356.6	1306.9	1266.0	1222.1	1230.9
10°	1704.5	1660.7	1570.0	1485.2	1374.1	1233.8	1073.0	967.8	915.1	862.5	868.3
12.5°	1745.5	1692.8	1575.9	1447.2	1222.1	982.4	760.2	616.9	578.9	555.5	558.4
15°	1806.9	1742.5	1593.4	1374.1	1017.5	710.5	505.8	444.4	459.0	467.8	467.8
17.5°	1871.2	1798.1	1608.0	1242.6	786.5	497.0	412.2	406.4	426.9	447.3	447.3
20°	1950.1	1856.6	1611.0	1075.9	567.2	403.5	388.9	388.9	403.5	426.9	426.9
22.5°	2026.1	1920.9	1584.7	885.9	432.7	374.2	374.2	374.2	383.0	406.4	409.3
25°	2116.8	1999.8	1529.1	684.2	371.3	356.7	356.7	359.6	365.5	385.9	388.9
27.5°	2213.3	2081.7	1435.5	500.0	339.2	336.2	339.2	342.1	345.0	365.5	371.3
30°	2324.4	2172.3	1315.7	374.2	309.9	309.9	318.7	324.5	324.5	342.1	347.9
32.5°	2453.0	2292.2	1172.4	309.9	280.7	277.8	292.4	301.1	301.1	315.8	321.6
35°	2613.8	2415.0	999.9	274.8	257.3	251.4	257.3	271.9	277.8	289.4	292.4
37.5°	2827.2	2561.2	815.7	254.4	239.7	228.1	228.1	231.0	242.7	254.4	257.3
40°	3099.1	2722.0	634.4	239.7	222.2	210.5	201.7	198.8	195.9	204.7	210.5
42.5°	3441.2	2903.3	473.6	225.1	207.6	190.0	178.3	166.7	152.0	149.1	152.0
45°	3879.8	3125.5	350.8	213.4	198.8	172.5	152.0	131.6	105.3	96.5	99.4
47.5°	4397.3	3356.4	274.8	201.7	193.0	152.0	125.7	90.6	64.3	58.5	61.4
50°	4946.9	3578.6	233.9	187.1	181.3	131.6	90.6	55.6	38.0	38.0	40.9
52.5°	5414.7	3704.4	213.4	175.4	163.7	108.2	58.5	32.2	23.4	23.4	26.3
55°	5867.9	3771.6	198.8	163.7	140.3	76.0	32.2	20.5	14.6	14.6	14.6
57.5°	6335.7	3800.8	181.3	149.1	111.1	46.8	17.5	11.7	8.8	8.8	8.8
60°	6750.9	3745.3	155.0	122.8	73.1	23.4	8.8	8.8	5.8	2.9	2.9
62.5°	7098.8	3640.0	108.2	87.7	43.9	11.7	5.8	2.9	0.0	0.0	0.0
65°	7312.2	3470.5	70.2	58.5	26.3	8.8	2.9	0.0	0.0	0.0	0.0
67.5°	7250.8	3151.8	43.9	38.0	11.7	5.8	2.9	0.0	0.0	0.0	0.0
70°	6543.3	2584.6	32.2	23.4	8.8	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	4716.0	1748.4	23.4	14.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	2268.8	622.8	14.6	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	555.5	137.4	8.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	122.8	26.3	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.9	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	2.9	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)