

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: P399563

Luminaire Tested: **ARCH-L-PA3-160-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15685 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

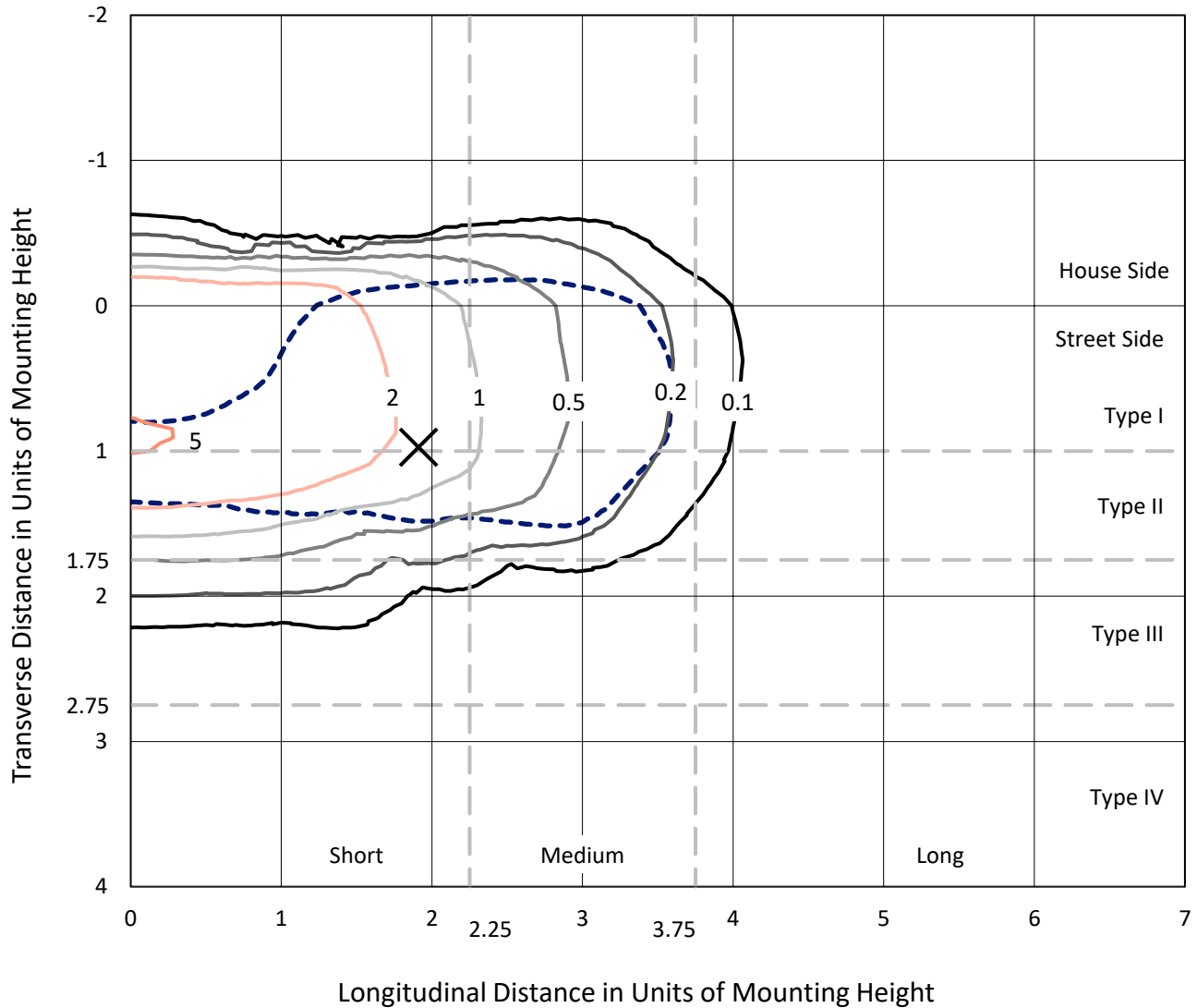
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

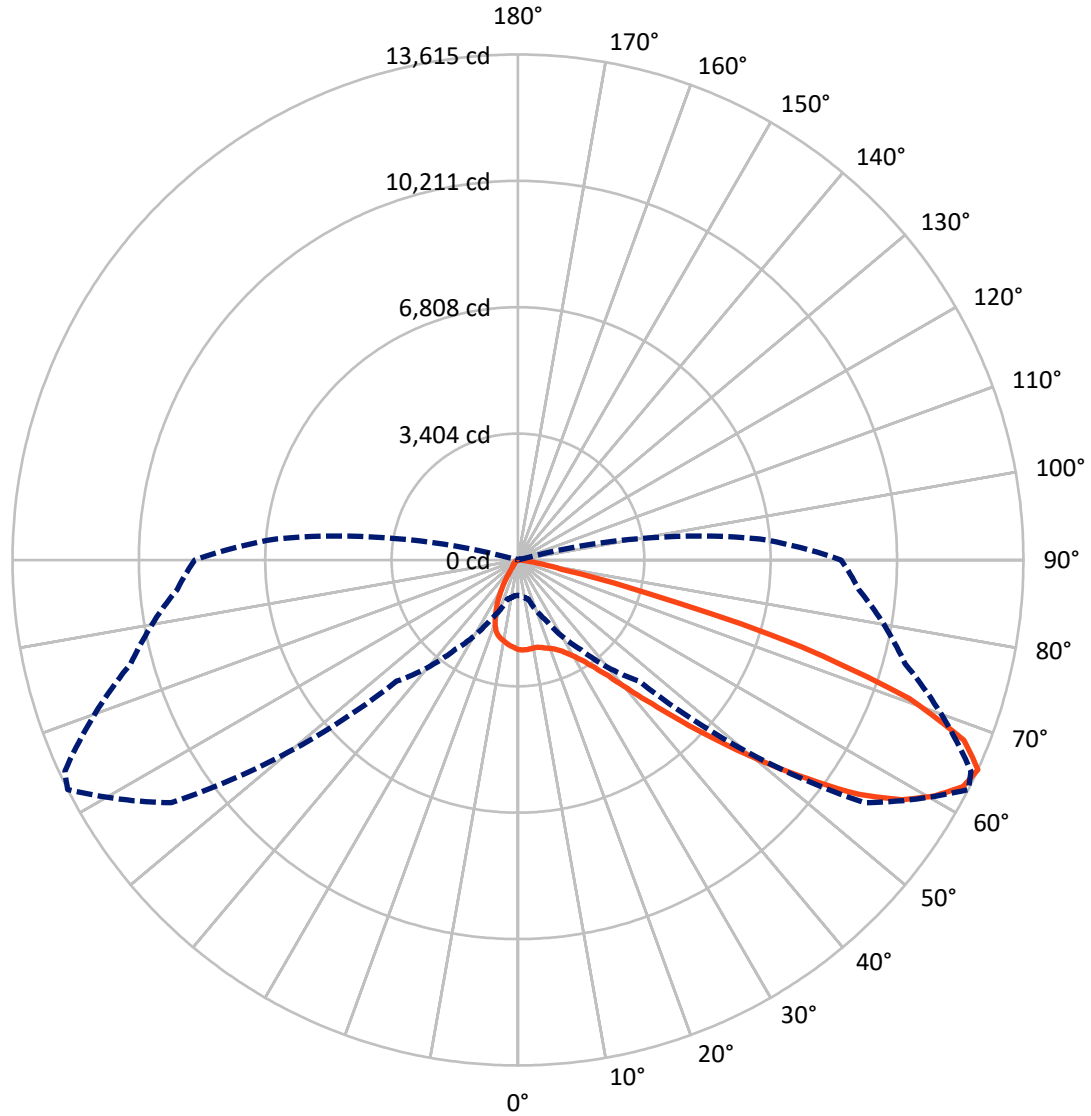
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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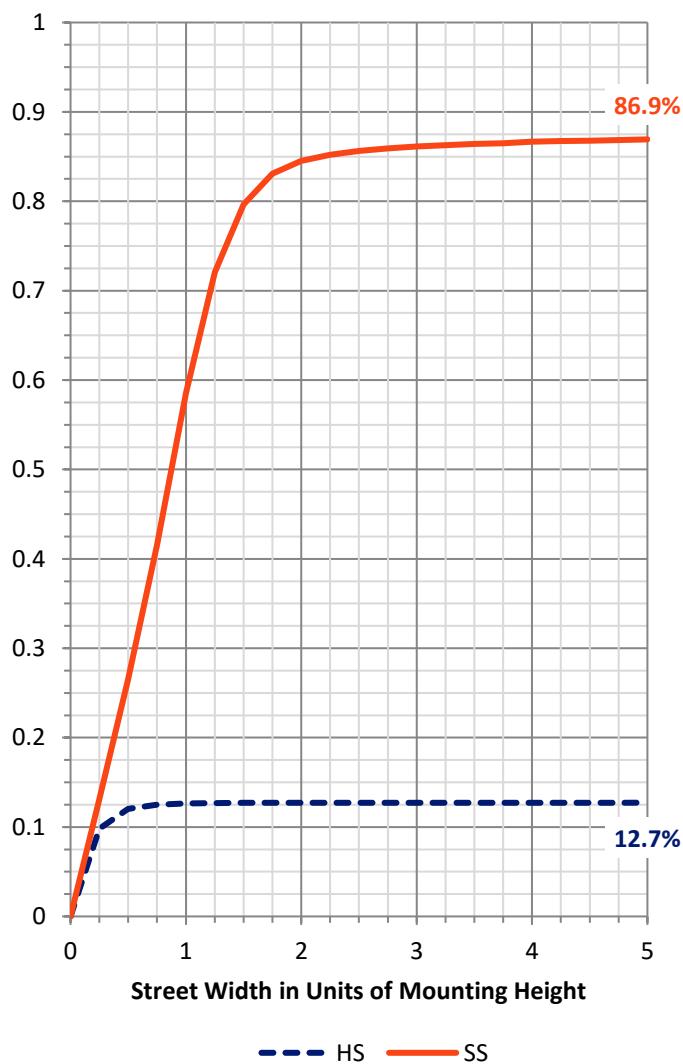
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2018.6	0.0	2018.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13666.4	0.0	13666.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	15685.0	0.0	15685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.4
10°-20°	543.9	3.5
20°-30°	806.2	5.1
30°-40°	1496.8	9.5
40°-50°	3171.0	20.2
50°-60°	4384.6	28.0
60°-70°	3510.0	22.4
70°-80°	1458.3	9.3
80°-90°	93.6	0.6
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°	15685.0	100.0
0°-180°	15685.0	100.0

Coefficient of Utilization



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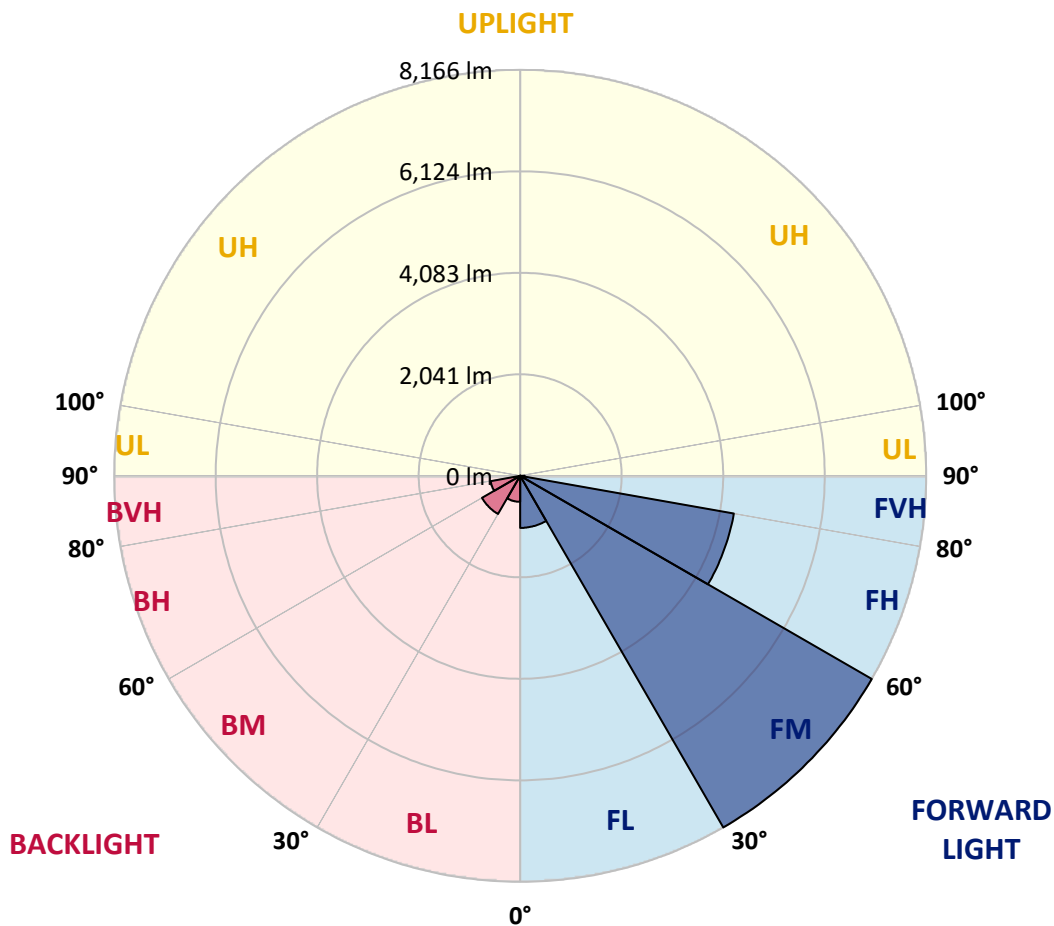
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.4	6.7			
FM (30°-60°)	8165.7	52.1			
FH (60°-80°)	4363.9	27.8			G2/5000
FVH (80°-90°)	89.4	0.6			G1/100
BL (0°-30°)	523.2	3.3	B2/1000		
BM (30°-60°)	886.8	5.7	B1/1000		
BH (60°-80°)	604.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3
2.5°	2457.7	2451.8	2445.9	2442.9	2442.9	2440.0	2428.1	2425.2	2419.2	2413.3	2407.4
5°	2434.0	2425.2	2422.2	2425.2	2428.1	2434.0	2428.1	2428.1	2422.2	2416.3	2404.4
7.5°	2374.8	2368.9	2371.9	2380.7	2383.7	2404.4	2407.4	2416.3	2416.3	2410.4	2401.5
10°	2303.8	2300.8	2300.8	2315.6	2330.4	2360.0	2380.7	2404.4	2407.4	2407.4	2392.6
12.5°	2250.5	2247.5	2256.4	2274.1	2303.8	2342.3	2377.8	2413.3	2419.2	2422.2	2398.5
15°	2217.9	2217.9	2229.7	2265.3	2306.7	2360.0	2401.5	2448.9	2454.8	2451.8	2419.2
17.5°	2188.3	2191.2	2214.9	2274.1	2321.5	2392.6	2442.9	2496.2	2499.2	2496.2	2442.9
20°	2176.4	2182.4	2217.9	2294.9	2348.2	2428.1	2493.3	2546.6	2549.5	2537.7	2466.6
22.5°	2209.0	2212.0	2256.4	2339.3	2389.6	2478.5	2561.4	2611.7	2614.7	2596.9	2502.2
25°	2321.5	2321.5	2360.0	2431.1	2475.5	2564.3	2653.2	2712.4	2712.4	2691.7	2582.1
27.5°	2585.1	2561.4	2552.5	2573.2	2588.0	2682.8	2777.5	2851.6	2848.6	2819.0	2685.7
30°	3094.4	3035.2	2940.4	2833.8	2780.5	2845.6	2934.5	3029.2	3026.3	2978.9	2813.1
32.5°	3950.1	3864.3	3639.2	3357.9	3129.9	3055.9	3138.8	3242.4	3245.4	3189.1	3017.4
35°	5149.4	5013.2	4610.5	4219.6	3698.5	3417.1	3440.8	3553.4	3588.9	3559.3	3360.9
37.5°	6304.2	6179.9	5794.9	5253.0	4545.3	3970.9	3870.2	3967.9	4009.4	4009.4	3799.1
40°	7468.0	7322.9	6982.3	6437.5	5691.3	4835.5	4474.3	4554.2	4598.6	4607.5	4332.1
42.5°	8400.7	8306.0	8045.4	7622.0	6923.1	6351.6	5344.8	5300.4	5341.9	5309.3	4951.0
45°	9046.3	8972.2	8791.6	8631.7	8291.2	8003.9	6508.6	6209.5	6236.1	6123.6	5646.9
47.5°	9179.5	9096.6	9058.1	9280.2	9523.0	9594.1	7938.8	7290.3	7263.7	7014.9	6369.4
50°	8599.1	8608.0	8750.1	9383.8	10396.5	11036.1	9597.0	8510.3	8412.6	7858.8	7041.6
52.5°	7346.6	7488.7	7847.0	8874.5	10663.0	12084.4	11255.3	9804.3	9653.3	8679.1	7545.0
55°	5747.6	5931.1	6520.4	7701.9	10106.3	12552.2	12652.9	11148.7	10805.2	9295.0	7935.8
57.5°	4272.9	4329.2	5016.2	6094.0	8788.6	12093.3	13369.5	12185.1	11743.8	9786.5	8323.7
60°	2662.1	2697.6	3423.1	4640.1	6656.6	10396.5	13369.5	12898.7	12478.2	10227.7	8679.1
62.5°	1655.3	1667.1	1939.5	3180.3	4524.6	7710.8	12815.8	13452.4	13114.8	10544.6	8984.1
65°	953.5	965.3	1092.7	1797.4	2943.4	4616.4	11400.4	13615.3	13464.3	10796.3	9221.0
67.5°	695.9	701.8	752.1	1009.7	1924.7	2371.9	8563.6	12960.9	13150.4	10920.7	9215.0
70°	604.1	613.0	678.1	787.7	1388.8	1456.9	4358.8	11193.1	11723.1	10743.0	8939.7
72.5°	464.9	476.7	574.5	740.3	1018.6	1048.2	1578.3	7965.4	8767.9	9632.6	8184.6
75°	319.8	331.6	429.4	610.0	841.0	784.7	867.6	3665.9	4625.3	6461.2	6230.2
77.5°	204.3	207.3	269.5	444.2	725.5	556.7	595.2	1196.3	1679.0	2922.6	2940.4
80°	136.2	139.2	165.8	287.2	497.5	515.2	367.2	553.7	607.0	852.8	592.2
82.5°	82.9	82.9	112.5	180.6	302.0	426.4	239.9	290.2	310.9	328.7	154.0
85°	32.6	32.6	68.1	118.4	189.5	198.4	151.0	168.8	177.7	192.5	71.1
87.5°	8.9	8.9	38.5	65.1	82.9	91.8	91.8	82.9	88.8	109.6	35.5
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°	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3	2416.3
2.5°	2404.4	2395.6	2383.7	2371.9	2360.0	2351.1	2342.3	2342.3	2336.3	2327.4	2321.5
5°	2398.5	2383.7	2357.1	2336.3	2303.8	2280.1	2262.3	2247.5	2238.6	2217.9	2214.9
7.5°	2389.6	2371.9	2333.4	2291.9	2238.6	2197.2	2155.7	2126.1	2096.5	2072.8	2066.9
10°	2374.8	2354.1	2297.8	2238.6	2164.6	2087.6	1989.9	1877.4	1773.7	1714.5	1696.7
12.5°	2374.8	2348.2	2274.1	2194.2	2087.6	1898.1	1649.3	1400.6	1208.1	1122.3	1098.6
15°	2389.6	2354.1	2256.4	2146.8	1948.4	1563.5	1160.8	832.1	621.8	556.7	541.9
17.5°	2404.4	2354.1	2229.7	2081.7	1693.8	1134.1	660.3	438.2	370.1	355.3	355.3
20°	2410.4	2348.2	2194.2	1960.3	1353.2	704.7	393.8	328.7	302.0	293.2	293.2
22.5°	2434.0	2351.1	2167.5	1785.6	983.1	414.6	310.9	275.4	248.7	239.9	239.9
25°	2493.3	2386.7	2173.5	1563.5	630.7	313.9	263.5	228.0	201.4	189.5	189.5
27.5°	2588.0	2466.6	2206.0	1305.9	396.8	269.5	222.1	183.6	162.9	151.0	151.0
30°	2694.6	2555.5	2220.8	1009.7	296.1	228.0	180.6	145.1	130.3	121.4	118.4
32.5°	2881.2	2709.4	2209.0	692.9	242.8	192.5	145.1	115.5	103.6	100.7	100.7
35°	3180.3	2978.9	2185.3	435.3	201.4	154.0	115.5	94.8	85.9	82.9	80.0
37.5°	3585.9	3372.7	2114.2	287.2	165.8	121.4	94.8	80.0	71.1	68.1	68.1
40°	4080.4	3822.8	1978.0	219.1	142.1	97.7	80.0	68.1	62.2	59.2	59.2
42.5°	4646.0	4323.3	1761.9	189.5	118.4	82.9	68.1	56.3	53.3	50.3	50.3
45°	5264.9	4847.4	1462.8	168.8	100.7	68.1	56.3	50.3	44.4	44.4	41.5
47.5°	5922.3	5374.5	1125.2	148.1	85.9	59.2	50.3	41.5	38.5	35.5	35.5
50°	6555.9	5845.3	790.6	127.3	71.1	50.3	41.5	35.5	32.6	29.6	29.6
52.5°	7003.1	6129.5	559.7	109.6	59.2	44.4	32.6	26.7	23.7	23.7	23.7
55°	7361.4	6307.2	390.9	91.8	50.3	38.5	26.7	20.7	20.7	17.8	17.8
57.5°	7698.9	6422.7	287.2	77.0	41.5	29.6	20.7	14.8	14.8	11.8	11.8
60°	8048.4	6484.9	219.1	62.2	35.5	23.7	14.8	11.8	8.9	8.9	8.9
62.5°	8400.7	6523.4	168.8	50.3	29.6	17.8	11.8	8.9	5.9	3.0	3.0
65°	8708.7	6535.2	130.3	38.5	23.7	11.8	8.9	3.0	0.0	0.0	0.0
67.5°	8800.5	6399.0	100.7	29.6	17.8	8.9	5.9	0.0	0.0	0.0	0.0
70°	8551.7	6037.7	77.0	23.7	14.8	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	7589.4	5063.5	59.2	14.8	11.8	5.9	3.0	0.0	0.0	0.0	0.0
75°	5430.7	2700.6	41.5	11.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	2499.2	1045.3	29.6	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
80°	488.6	260.6	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.5	44.4	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	14.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	3.0	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)