

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: P399626

Luminaire Tested: **ARCH-L-PA3-170-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399626
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-PA3-170-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA 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: 15093 lumens
Efficiency: N/A
Efficacy: 87.2 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

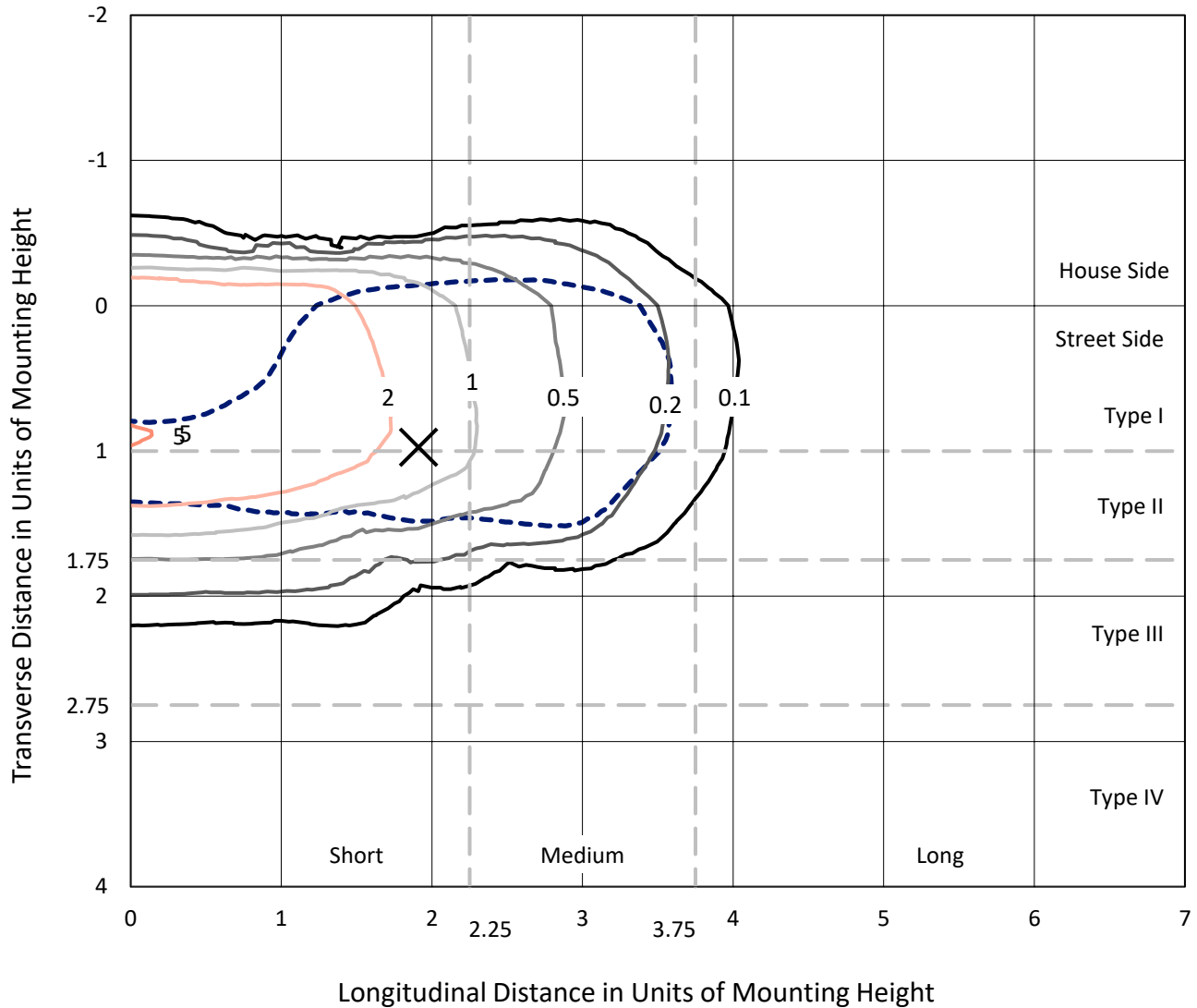
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

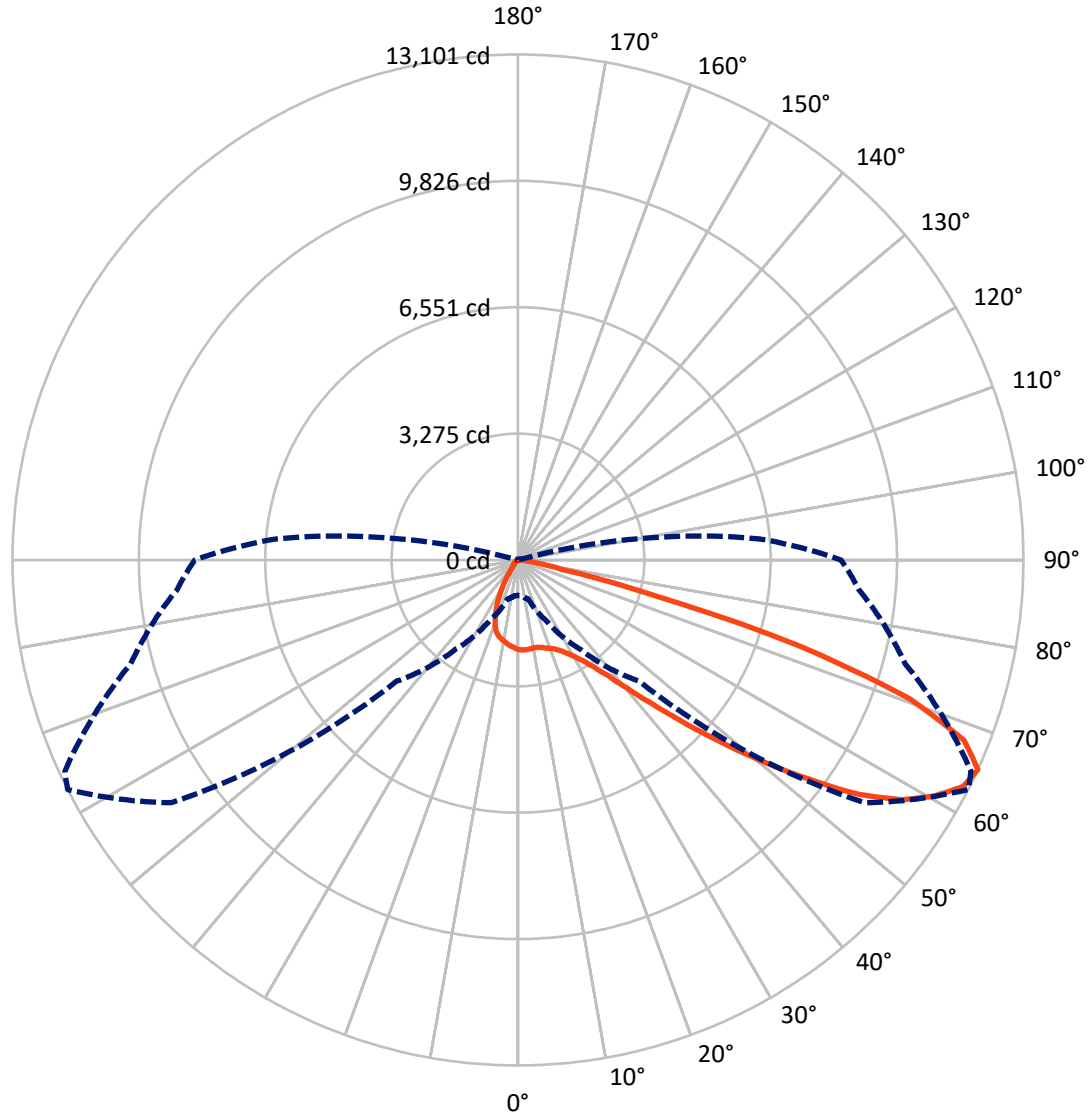
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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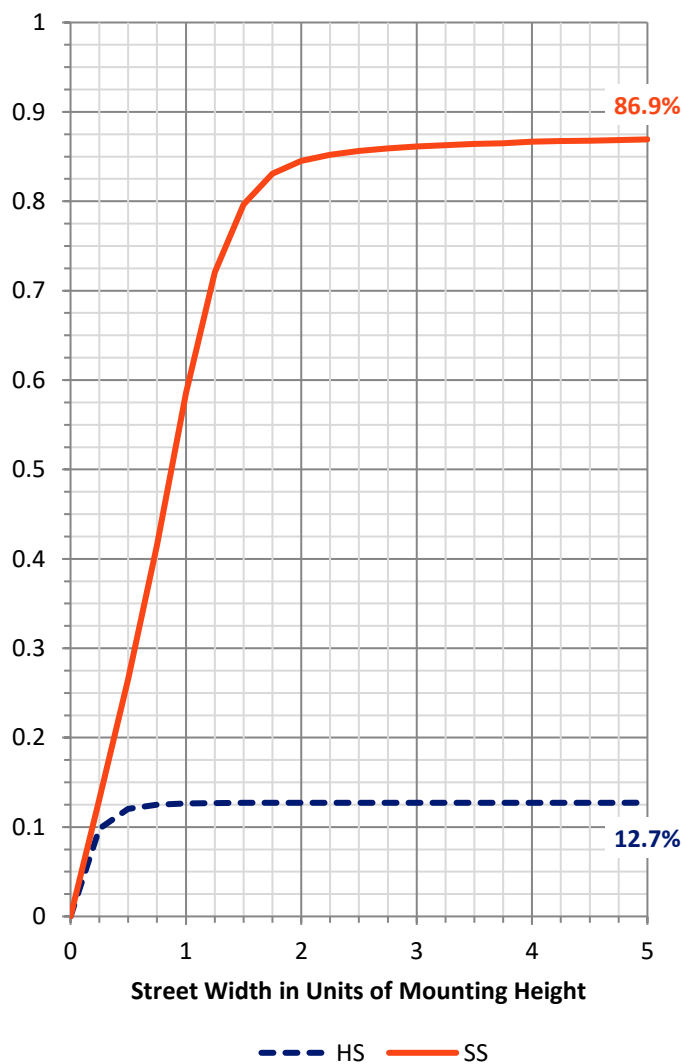
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.4	0.0	1942.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13150.6	0.0	13150.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	15093.0	0.0	15093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	1.4
10°-20°	523.4	3.5
20°-30°	775.7	5.1
30°-40°	1440.3	9.5
40°-50°	3051.3	20.2
50°-60°	4219.1	28.0
60°-70°	3377.6	22.4
70°-80°	1403.3	9.3
80°-90°	90.1	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°	15093.0	100.0
0°-180°	15093.0	100.0

Coefficient of Utilization



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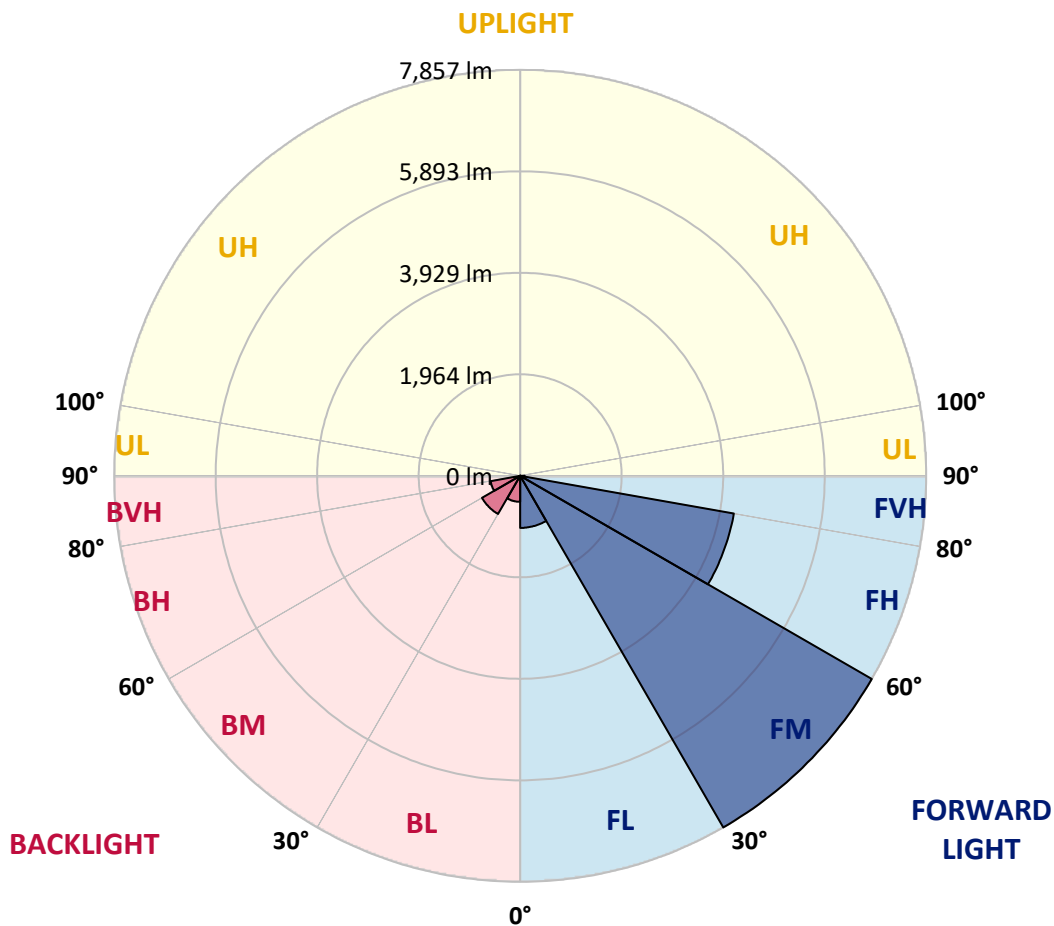
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.9	6.7			
FM (30°-60°)	7857.5	52.1			
FH (60°-80°)	4199.2	27.8			G2/5000
FVH (80°-90°)	86.0	0.6			G1/100
BL (0°-30°)	503.4	3.3	B2/1000		
BM (30°-60°)	853.3	5.7	B1/1000		
BH (60°-80°)	581.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1
2.5°	2365.0	2359.3	2353.6	2350.7	2350.7	2347.9	2336.5	2333.6	2327.9	2322.2	2316.5
5°	2342.2	2333.6	2330.8	2333.6	2336.5	2342.2	2336.5	2336.5	2330.8	2325.1	2313.7
7.5°	2285.2	2279.5	2282.3	2290.9	2293.7	2313.7	2316.5	2325.1	2325.1	2319.4	2310.8
10°	2216.8	2214.0	2214.0	2228.2	2242.5	2270.9	2290.9	2313.7	2316.5	2316.5	2302.3
12.5°	2165.5	2162.7	2171.2	2188.3	2216.8	2253.9	2288.0	2322.2	2327.9	2330.8	2308.0
15°	2134.2	2134.2	2145.6	2179.8	2219.7	2270.9	2310.8	2356.4	2362.1	2359.3	2327.9
17.5°	2105.7	2108.5	2131.3	2188.3	2233.9	2302.3	2350.7	2402.0	2404.9	2402.0	2350.7
20°	2094.3	2100.0	2134.2	2208.3	2259.5	2336.5	2399.2	2450.5	2453.3	2441.9	2373.5
22.5°	2125.6	2128.5	2171.2	2251.0	2299.4	2384.9	2464.7	2513.1	2516.0	2498.9	2407.7
25°	2233.9	2233.9	2270.9	2339.3	2382.1	2467.6	2553.0	2610.0	2610.0	2590.1	2484.6
27.5°	2487.5	2464.7	2456.2	2476.1	2490.3	2581.5	2672.7	2743.9	2741.1	2712.6	2584.4
30°	2977.6	2920.6	2829.4	2726.8	2675.6	2738.2	2823.7	2914.9	2912.1	2866.5	2706.9
32.5°	3801.1	3718.4	3501.9	3231.2	3011.8	2940.5	3020.3	3120.1	3122.9	3068.8	2903.5
35°	4955.1	4824.0	4436.5	4060.4	3558.9	3288.2	3311.0	3419.2	3453.4	3424.9	3234.0
37.5°	6066.3	5946.6	5576.2	5054.8	4373.8	3821.0	3724.1	3818.2	3858.0	3858.0	3655.7
40°	7186.1	7046.5	6718.8	6194.5	5476.5	4653.0	4305.4	4382.3	4425.1	4433.6	4168.6
42.5°	8083.7	7992.5	7741.7	7334.3	6661.8	6111.9	5143.1	5100.4	5140.3	5108.9	4764.1
45°	8704.8	8633.6	8459.8	8305.9	7978.2	7701.8	6262.9	5975.1	6000.8	5892.5	5433.7
47.5°	8833.0	8753.3	8716.2	8929.9	9163.6	9232.0	7639.2	7015.1	6989.5	6750.2	6129.0
50°	8274.6	8283.1	8419.9	9029.6	10004.1	10619.6	9234.8	8189.1	8095.1	7562.2	6775.8
52.5°	7069.3	7206.1	7550.8	8539.6	10260.6	11628.3	10830.4	9434.3	9288.9	8351.5	7260.2
55°	5530.6	5707.3	6274.3	7411.2	9724.9	12078.5	12175.4	10727.9	10397.3	8944.2	7636.3
57.5°	4111.6	4165.8	4826.8	5864.0	8456.9	11636.8	12864.9	11725.2	11300.6	9417.2	8009.6
60°	2561.6	2595.8	3293.9	4465.0	6405.4	10004.1	12864.9	12411.8	12007.2	9841.7	8351.5
62.5°	1592.8	1604.2	1866.3	3060.2	4353.8	7419.8	12332.1	12944.7	12619.9	10146.6	8645.0
65°	917.5	928.9	1051.4	1729.6	2832.3	4442.2	10970.1	13101.4	12956.1	10388.8	8872.9
67.5°	669.6	675.3	723.7	971.6	1852.1	2282.3	8240.4	12471.7	12654.0	10508.5	8867.2
70°	581.3	589.8	652.5	757.9	1336.4	1401.9	4194.3	10770.6	11280.7	10337.5	8602.2
72.5°	447.4	458.7	552.8	712.3	980.2	1008.7	1518.7	7664.8	8437.0	9269.0	7875.7
75°	307.7	319.1	413.2	587.0	809.2	755.1	834.9	3527.5	4450.7	6217.3	5995.1
77.5°	196.6	199.5	259.3	427.4	698.1	535.7	572.7	1151.1	1615.6	2812.3	2829.4
80°	131.1	133.9	159.6	276.4	478.7	495.8	353.3	532.8	584.1	820.6	569.9
82.5°	79.8	79.8	108.3	173.8	290.6	410.3	230.8	279.2	299.2	316.3	148.2
85°	31.3	31.3	65.5	114.0	182.4	190.9	145.3	162.4	171.0	185.2	68.4
87.5°	8.5	8.5	37.0	62.7	79.8	88.3	88.3	79.8	85.5	105.4	34.2
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°	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1	2325.1
2.5°	2313.7	2305.1	2293.7	2282.3	2270.9	2262.4	2253.9	2253.9	2248.2	2239.6	2233.9
5°	2308.0	2293.7	2268.1	2248.2	2216.8	2194.0	2176.9	2162.7	2154.1	2134.2	2131.3
7.5°	2299.4	2282.3	2245.3	2205.4	2154.1	2114.2	2074.3	2045.8	2017.4	1994.6	1988.9
10°	2285.2	2265.2	2211.1	2154.1	2082.9	2008.8	1914.8	1806.5	1706.8	1649.8	1632.7
12.5°	2285.2	2259.5	2188.3	2111.4	2008.8	1826.4	1587.1	1347.8	1162.5	1079.9	1057.1
15°	2299.4	2265.2	2171.2	2065.8	1874.9	1504.5	1117.0	800.7	598.4	535.7	521.4
17.5°	2313.7	2265.2	2145.6	2003.1	1629.8	1091.3	635.4	421.7	356.2	341.9	341.9
20°	2319.4	2259.5	2111.4	1886.3	1302.2	678.1	379.0	316.3	290.6	282.1	282.1
22.5°	2342.2	2262.4	2085.7	1718.2	946.0	398.9	299.2	265.0	239.3	230.8	230.8
25°	2399.2	2296.6	2091.4	1504.5	606.9	302.0	253.6	219.4	193.8	182.4	182.4
27.5°	2490.3	2373.5	2122.8	1256.6	381.8	259.3	213.7	176.7	156.7	145.3	145.3
30°	2592.9	2459.0	2137.0	971.6	284.9	219.4	173.8	139.6	125.4	116.8	114.0
32.5°	2772.4	2607.2	2125.6	666.8	233.6	185.2	139.6	111.1	99.7	96.9	96.9
35°	3060.2	2866.5	2102.8	418.9	193.8	148.2	111.1	91.2	82.6	79.8	76.9
37.5°	3450.6	3245.4	2034.4	276.4	159.6	116.8	91.2	76.9	68.4	65.5	65.5
40°	3926.4	3678.5	1903.4	210.9	136.8	94.0	76.9	65.5	59.8	57.0	57.0
42.5°	4470.7	4160.1	1695.4	182.4	114.0	79.8	65.5	54.1	51.3	48.4	48.4
45°	5066.2	4664.4	1407.6	162.4	96.9	65.5	54.1	48.4	42.7	42.7	39.9
47.5°	5698.7	5171.6	1082.8	142.5	82.6	57.0	48.4	39.9	37.0	34.2	34.2
50°	6308.5	5624.7	760.8	122.5	68.4	48.4	39.9	34.2	31.3	28.5	28.5
52.5°	6738.8	5898.2	538.5	105.4	57.0	42.7	31.3	25.6	22.8	22.8	22.8
55°	7083.5	6069.2	376.1	88.3	48.4	37.0	25.6	19.9	19.9	17.1	17.1
57.5°	7408.4	6180.3	276.4	74.1	39.9	28.5	19.9	14.2	14.2	11.4	11.4
60°	7744.6	6240.1	210.9	59.8	34.2	22.8	14.2	11.4	8.5	8.5	8.5
62.5°	8083.7	6277.2	162.4	48.4	28.5	17.1	11.4	8.5	5.7	2.8	2.8
65°	8380.0	6288.6	125.4	37.0	22.8	11.4	8.5	2.8	0.0	0.0	0.0
67.5°	8468.3	6157.5	96.9	28.5	17.1	8.5	5.7	0.0	0.0	0.0	0.0
70°	8229.0	5809.9	74.1	22.8	14.2	5.7	2.8	0.0	0.0	0.0	0.0
72.5°	7302.9	4872.4	57.0	14.2	11.4	5.7	2.8	0.0	0.0	0.0	0.0
75°	5225.7	2598.6	39.9	11.4	8.5	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	2404.9	1005.8	28.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
80°	470.1	250.7	11.4	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.3	42.7	5.7	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.0	14.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	5.7	2.8	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)