

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: P399824

Luminaire Tested: **ARCH-L-PA3-190-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399824
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-PA3-190-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 810mA 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: 15197 lumens
Efficiency: N/A
Efficacy: 80.4 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

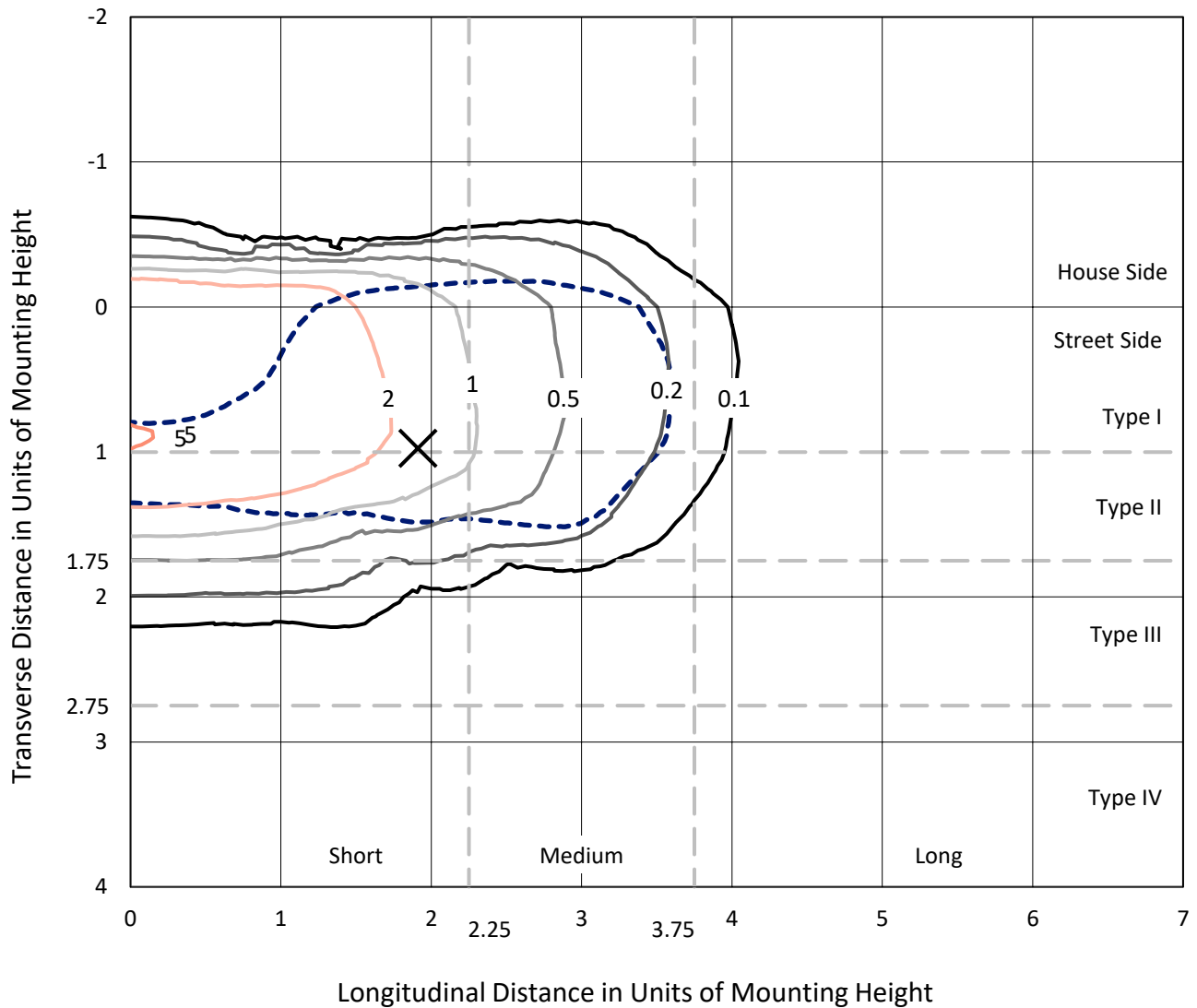
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

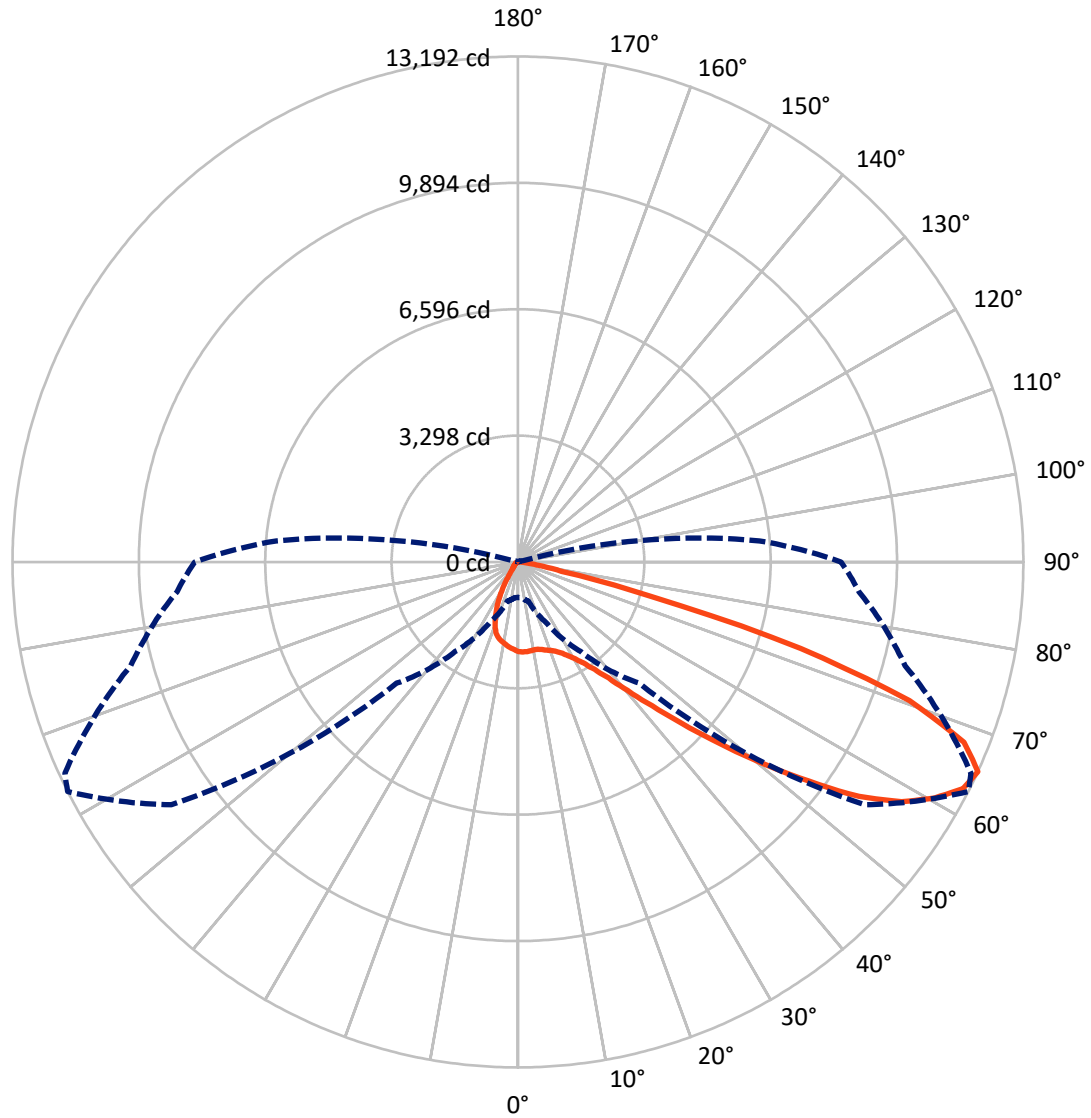
✕ Max cd
 - - - 1/2 Max cd



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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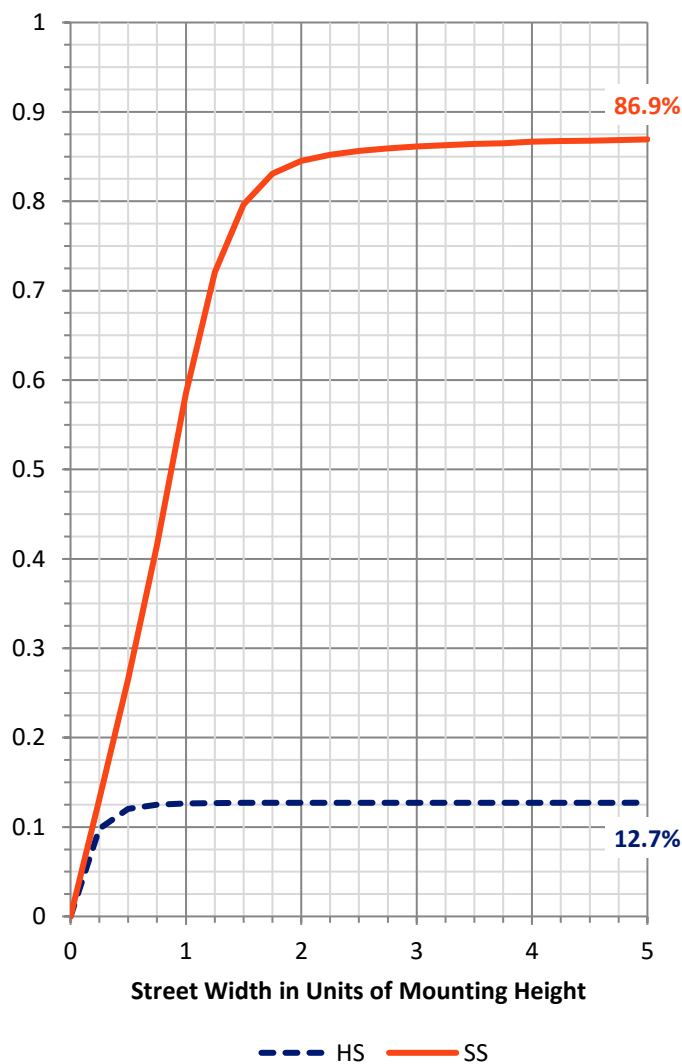
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.8	0.0	1955.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13241.2	0.0	13241.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	15197.0	0.0	15197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.4
10°-20°	527.0	3.5
20°-30°	781.1	5.1
30°-40°	1450.3	9.5
40°-50°	3072.3	20.2
50°-60°	4248.2	28.0
60°-70°	3400.8	22.4
70°-80°	1413.0	9.3
80°-90°	90.7	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°	15197.0	100.0
0°-180°	15197.0	100.0

Coefficient of Utilization



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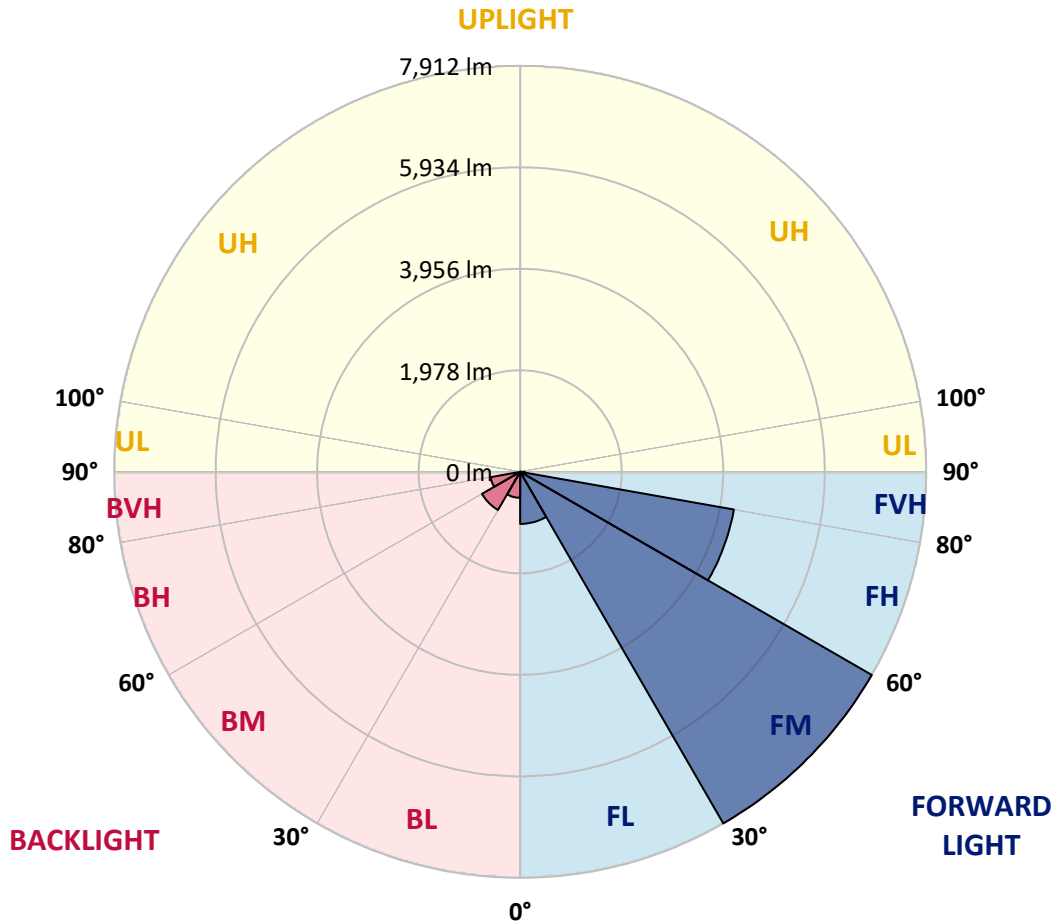
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.8	6.7			
FM (30°-60°)	7911.6	52.1			
FH (60°-80°)	4228.2	27.8			G2/5000
FVH (80°-90°)	86.6	0.6			G1/100
BL (0°-30°)	506.9	3.3	B2/1000		
BM (30°-60°)	859.2	5.7	B1/1000		
BH (60°-80°)	585.6	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°	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1
2.5°	2381.3	2375.5	2369.8	2366.9	2366.9	2364.1	2352.6	2349.7	2344.0	2338.2	2332.5
5°	2358.3	2349.7	2346.8	2349.7	2352.6	2358.3	2352.6	2352.6	2346.8	2341.1	2329.6
7.5°	2300.9	2295.2	2298.1	2306.7	2309.5	2329.6	2332.5	2341.1	2341.1	2335.4	2326.8
10°	2232.1	2229.2	2229.2	2243.6	2257.9	2286.6	2306.7	2329.6	2332.5	2332.5	2318.2
12.5°	2180.4	2177.6	2186.2	2203.4	2232.1	2269.4	2303.8	2338.2	2344.0	2346.8	2323.9
15°	2148.9	2148.9	2160.4	2194.8	2235.0	2286.6	2326.8	2372.7	2378.4	2375.5	2344.0
17.5°	2120.2	2123.1	2146.0	2203.4	2249.3	2318.2	2366.9	2418.6	2421.4	2418.6	2366.9
20°	2108.7	2114.5	2148.9	2223.5	2275.1	2352.6	2415.7	2467.3	2470.2	2458.7	2389.9
22.5°	2140.3	2143.1	2186.2	2266.5	2315.3	2401.4	2481.7	2530.5	2533.3	2516.1	2424.3
25°	2249.3	2249.3	2286.6	2355.5	2398.5	2484.6	2570.6	2628.0	2628.0	2607.9	2501.8
27.5°	2504.6	2481.7	2473.1	2493.2	2507.5	2599.3	2691.1	2762.8	2760.0	2731.3	2602.2
30°	2998.1	2940.7	2848.9	2745.6	2694.0	2757.1	2843.2	2935.0	2932.1	2886.2	2725.6
32.5°	3827.2	3744.0	3526.0	3253.4	3032.5	2960.8	3041.1	3141.6	3144.4	3089.9	2923.5
35°	4989.2	4857.2	4467.0	4088.3	3583.4	3310.8	3333.8	3442.8	3477.2	3448.5	3256.3
37.5°	6108.1	5987.6	5614.6	5089.6	4403.9	3847.3	3749.8	3844.5	3884.6	3884.6	3680.9
40°	7235.6	7095.0	6765.1	6237.2	5514.2	4685.1	4335.1	4412.5	4455.6	4464.2	4197.4
42.5°	8139.4	8047.6	7795.1	7384.8	6707.7	6154.0	5178.5	5135.5	5175.7	5144.1	4797.0
45°	8764.8	8693.1	8518.1	8363.1	8033.2	7754.9	6306.1	6016.3	6042.1	5933.1	5471.2
47.5°	8893.9	8813.6	8776.3	8991.5	9226.7	9295.6	7691.8	7063.5	7037.7	6796.7	6171.2
50°	8331.6	8340.2	8477.9	9091.9	10073.1	10692.8	9298.4	8245.5	8150.8	7614.3	6822.5
52.5°	7118.0	7255.7	7602.9	8598.4	10331.3	11708.4	10905.1	9499.3	9352.9	8409.0	7310.2
55°	5568.7	5746.6	6317.5	7462.3	9791.9	12161.7	12259.2	10801.8	10469.0	9005.8	7688.9
57.5°	4140.0	4194.5	4860.1	5904.4	8515.2	11717.0	12953.5	11805.9	11378.5	9482.1	8064.8
60°	2579.2	2613.7	3316.6	4495.7	6449.5	10073.1	12953.5	12497.4	12090.0	9909.5	8409.0
62.5°	1603.8	1615.2	1879.2	3081.3	4383.8	7470.9	12417.0	13033.9	12706.8	10216.5	8704.6
65°	923.8	935.3	1058.7	1741.5	2851.8	4472.8	11045.7	13191.7	13045.4	10460.4	8934.1
67.5°	674.2	680.0	728.7	978.3	1864.9	2298.1	8297.2	12557.6	12741.2	10580.9	8928.3
70°	585.3	593.9	657.0	763.2	1345.6	1411.5	4223.2	10844.8	11358.4	10408.7	8661.5
72.5°	450.4	461.9	556.6	717.3	986.9	1015.6	1529.2	7717.6	8495.1	9332.9	7929.9
75°	309.9	321.3	416.0	591.0	814.8	760.3	840.6	3551.8	4481.4	6260.2	6036.4
77.5°	198.0	200.8	261.1	430.4	702.9	539.4	576.7	1159.1	1626.7	2831.7	2848.9
80°	132.0	134.8	160.7	278.3	482.0	499.2	355.8	536.5	588.1	826.3	573.8
82.5°	80.3	80.3	109.0	175.0	292.6	413.1	232.4	281.2	301.2	318.5	149.2
85°	31.6	31.6	66.0	114.8	183.6	192.2	146.3	163.5	172.1	186.5	68.9
87.5°	8.6	8.6	37.3	63.1	80.3	88.9	88.9	80.3	86.1	106.2	34.4
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°	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1	2341.1
2.5°	2329.6	2321.0	2309.5	2298.1	2286.6	2278.0	2269.4	2269.4	2263.6	2255.0	2249.3
5°	2323.9	2309.5	2283.7	2263.6	2232.1	2209.1	2191.9	2177.6	2169.0	2148.9	2146.0
7.5°	2315.3	2298.1	2260.8	2220.6	2169.0	2128.8	2088.6	2059.9	2031.3	2008.3	2002.6
10°	2300.9	2280.9	2226.3	2169.0	2097.2	2022.6	1928.0	1818.9	1718.5	1661.2	1643.9
12.5°	2300.9	2275.1	2203.4	2125.9	2022.6	1839.0	1598.0	1357.0	1170.6	1087.4	1064.4
15°	2315.3	2280.9	2186.2	2080.0	1887.8	1514.8	1124.6	806.2	602.5	539.4	525.0
17.5°	2329.6	2280.9	2160.4	2016.9	1641.1	1098.8	639.8	424.6	358.6	344.3	344.3
20°	2335.4	2275.1	2125.9	1899.3	1311.1	682.8	381.6	318.5	292.6	284.0	284.0
22.5°	2358.3	2278.0	2100.1	1730.0	952.5	401.7	301.2	266.8	241.0	232.4	232.4
25°	2415.7	2312.4	2105.8	1514.8	611.1	304.1	255.3	220.9	195.1	183.6	183.6
27.5°	2507.5	2389.9	2137.4	1265.2	384.4	261.1	215.2	177.9	157.8	146.3	146.3
30°	2610.8	2475.9	2151.8	978.3	286.9	220.9	175.0	140.6	126.2	117.6	114.8
32.5°	2791.5	2625.1	2140.3	671.3	235.3	186.5	140.6	111.9	100.4	97.5	97.5
35°	3081.3	2886.2	2117.3	421.7	195.1	149.2	111.9	91.8	83.2	80.3	77.5
37.5°	3474.4	3267.8	2048.5	278.3	160.7	117.6	91.8	77.5	68.9	66.0	66.0
40°	3953.5	3703.9	1916.5	212.3	137.7	94.7	77.5	66.0	60.2	57.4	57.4
42.5°	4501.5	4188.7	1707.1	183.6	114.8	80.3	66.0	54.5	51.6	48.8	48.8
45°	5101.1	4696.6	1417.3	163.5	97.5	66.0	54.5	48.8	43.0	43.0	40.2
47.5°	5738.0	5207.2	1090.2	143.5	83.2	57.4	48.8	40.2	37.3	34.4	34.4
50°	6352.0	5663.4	766.0	123.4	68.9	48.8	40.2	34.4	31.6	28.7	28.7
52.5°	6785.2	5938.8	542.2	106.2	57.4	43.0	31.6	25.8	23.0	23.0	23.0
55°	7132.3	6111.0	378.7	88.9	48.8	37.3	25.8	20.1	20.1	17.2	17.2
57.5°	7459.4	6222.9	278.3	74.6	40.2	28.7	20.1	14.3	14.3	11.5	11.5
60°	7797.9	6283.1	212.3	60.2	34.4	23.0	14.3	11.5	8.6	8.6	8.6
62.5°	8139.4	6320.4	163.5	48.8	28.7	17.2	11.5	8.6	5.7	2.9	2.9
65°	8437.7	6331.9	126.2	37.3	23.0	11.5	8.6	2.9	0.0	0.0	0.0
67.5°	8526.7	6199.9	97.5	28.7	17.2	8.6	5.7	0.0	0.0	0.0	0.0
70°	8285.7	5849.9	74.6	23.0	14.3	5.7	2.9	0.0	0.0	0.0	0.0
72.5°	7353.3	4906.0	57.4	14.3	11.5	5.7	2.9	0.0	0.0	0.0	0.0
75°	5261.8	2616.5	40.2	11.5	8.6	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	2421.4	1012.8	28.7	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	473.4	252.5	11.5	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	109.0	43.0	5.7	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.3	14.3	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	5.7	2.9	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)