

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: P399770

Luminaire Tested: **ARCH-L-PA3-190-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399770
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-PA3-190-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 15992 lumens
Efficiency: N/A
Efficacy: 84.6 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

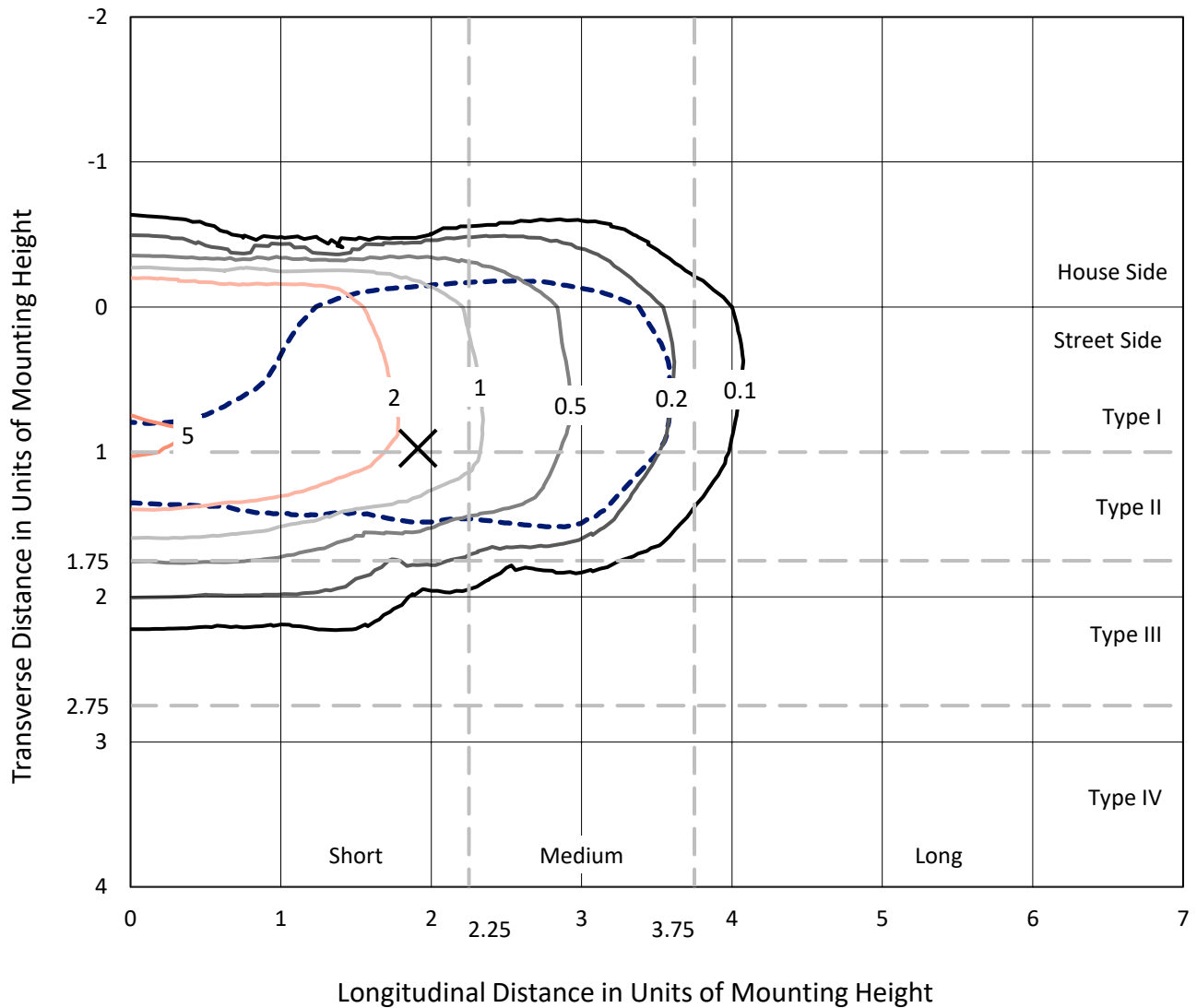
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

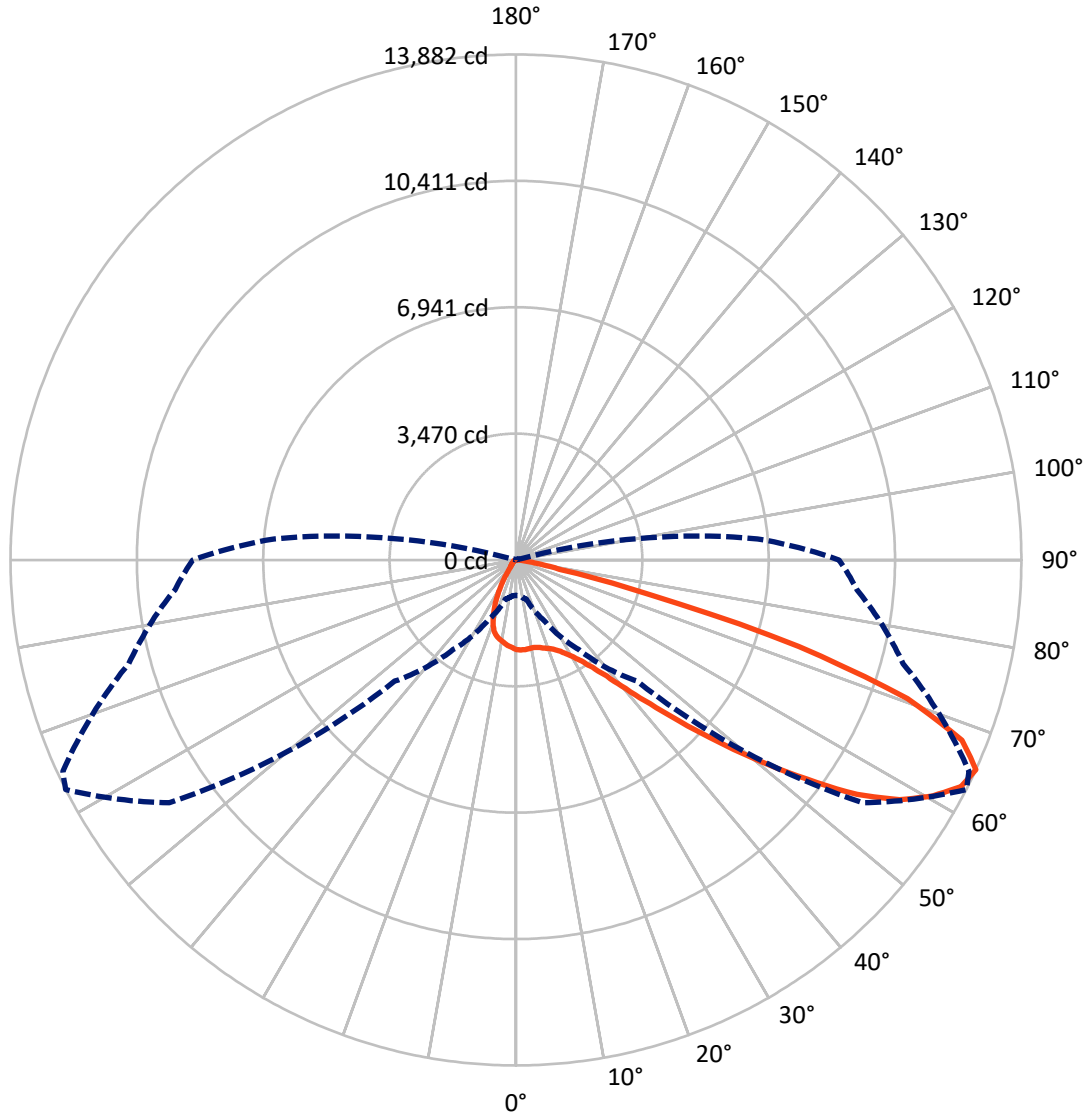
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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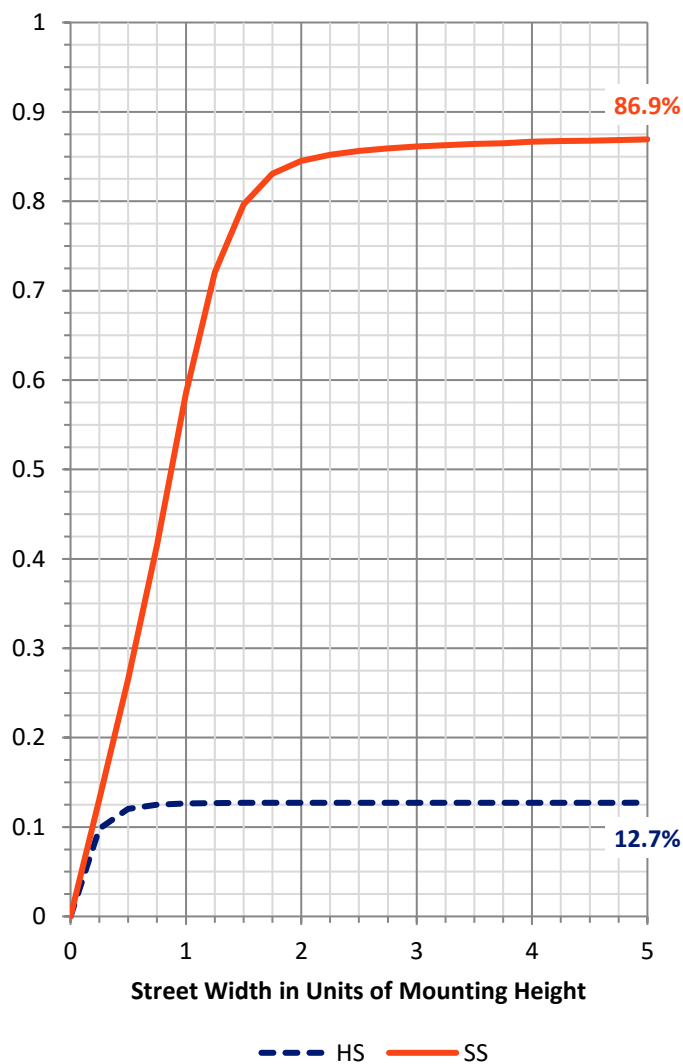
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.1	0.0	2058.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13933.9	0.0	13933.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	15992.0	0.0	15992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.4
10°-20°	554.5	3.5
20°-30°	821.9	5.1
30°-40°	1526.1	9.5
40°-50°	3233.0	20.2
50°-60°	4470.4	28.0
60°-70°	3578.7	22.4
70°-80°	1486.9	9.3
80°-90°	95.5	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°	15992.0	100.0
0°-180°	15992.0	100.0

Coefficient of Utilization

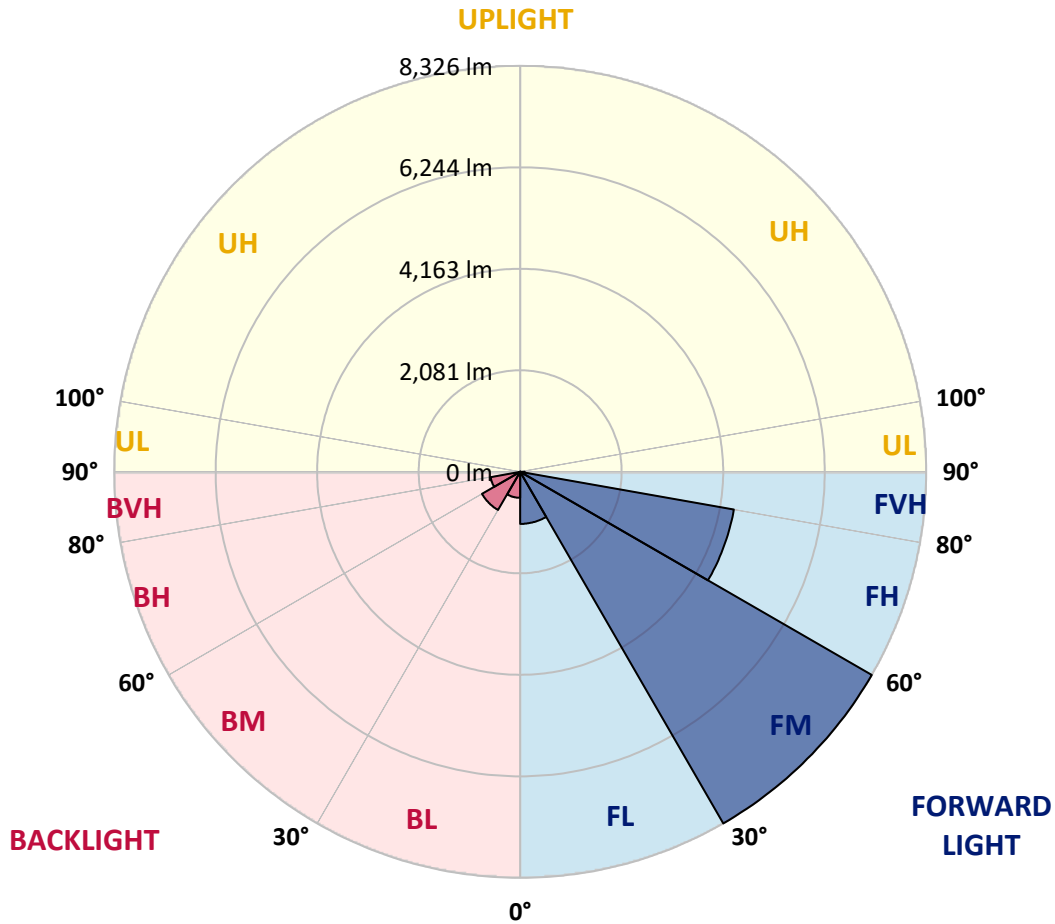


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.9	6.7			
FM (30°-60°)	8325.5	52.1			
FH (60°-80°)	4449.3	27.8			G2/5000
FVH (80°-90°)	91.1	0.6			G1/100
BL (0°-30°)	533.4	3.3	B2/1000		
BM (30°-60°)	904.1	5.7	B1/1000		
BH (60°-80°)	616.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	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°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2505.8	2499.8	2493.8	2490.7	2490.7	2487.7	2475.7	2472.6	2466.6	2460.6	2454.5
5°	2481.7	2472.6	2469.6	2472.6	2475.7	2481.7	2475.7	2475.7	2469.6	2463.6	2451.5
7.5°	2421.3	2415.3	2418.3	2427.3	2430.4	2451.5	2454.5	2463.6	2463.6	2457.5	2448.5
10°	2348.9	2345.8	2345.8	2360.9	2376.0	2406.2	2427.3	2451.5	2454.5	2454.5	2439.4
12.5°	2294.5	2291.5	2300.5	2318.7	2348.9	2388.1	2424.3	2460.6	2466.6	2469.6	2445.5
15°	2261.3	2261.3	2273.4	2309.6	2351.9	2406.2	2448.5	2496.8	2502.8	2499.8	2466.6
17.5°	2231.1	2234.1	2258.3	2318.7	2367.0	2439.4	2490.7	2545.1	2548.1	2545.1	2490.7
20°	2219.0	2225.1	2261.3	2339.8	2394.1	2475.7	2542.1	2596.4	2599.4	2587.4	2514.9
22.5°	2252.2	2255.3	2300.5	2385.1	2436.4	2527.0	2611.5	2662.8	2665.9	2647.7	2551.1
25°	2367.0	2367.0	2406.2	2478.7	2524.0	2614.5	2705.1	2765.5	2765.5	2744.4	2632.6
27.5°	2635.7	2611.5	2602.5	2623.6	2638.7	2735.3	2831.9	2907.4	2904.4	2874.2	2738.3
30°	3154.9	3094.6	2998.0	2889.3	2834.9	2901.3	2991.9	3088.5	3085.5	3037.2	2868.1
32.5°	4027.5	3939.9	3710.5	3423.6	3191.2	3115.7	3200.2	3305.9	3308.9	3251.6	3076.5
35°	5250.2	5111.3	4700.7	4302.2	3770.8	3484.0	3508.2	3622.9	3659.1	3628.9	3426.7
37.5°	6427.6	6300.8	5908.4	5355.9	4634.3	4048.6	3945.9	4045.6	4087.8	4087.8	3873.5
40°	7614.1	7466.2	7119.0	6563.5	5802.7	4930.2	4561.8	4643.4	4688.6	4697.7	4416.9
42.5°	8565.2	8468.5	8202.9	7771.1	7058.6	6475.9	5449.5	5404.2	5446.4	5413.2	5047.9
45°	9223.3	9147.8	8963.7	8800.6	8453.4	8160.6	6636.0	6331.0	6358.2	6243.5	5757.4
47.5°	9359.2	9274.6	9235.4	9461.8	9709.4	9781.8	8094.2	7433.0	7405.8	7152.2	6494.1
50°	8767.4	8776.5	8921.4	9567.5	10600.0	11252.1	9784.9	8676.9	8577.2	8012.7	7179.4
52.5°	7490.4	7635.3	8000.6	9048.2	10871.7	12320.9	11475.6	9996.2	9842.2	8848.9	7692.6
55°	5860.1	6047.2	6648.0	7852.6	10304.1	12797.9	12900.6	11366.9	11016.7	9476.9	8091.2
57.5°	4356.5	4413.9	5114.3	6213.3	8960.7	12330.0	13631.2	12423.5	11973.7	9978.1	8486.7
60°	2714.2	2750.4	3490.1	4730.9	6786.9	10600.0	13631.2	13151.1	12722.4	10427.9	8848.9
62.5°	1687.7	1699.7	1977.5	3242.5	4613.2	7861.7	13066.6	13715.7	13371.5	10751.0	9159.9
65°	972.1	984.2	1114.0	1832.6	3001.0	4706.8	11623.5	13881.8	13727.8	11007.6	9401.4
67.5°	709.5	715.5	766.8	1029.5	1962.4	2418.3	8731.2	13214.6	13407.8	11134.4	9395.4
70°	615.9	625.0	691.4	803.1	1416.0	1485.4	4444.1	11412.2	11952.6	10953.3	9114.6
72.5°	474.0	486.1	585.7	754.8	1038.6	1068.8	1609.2	8121.3	8939.5	9821.1	8344.8
75°	326.1	338.1	437.8	621.9	857.4	800.1	884.6	3737.6	4715.8	6587.7	6352.2
77.5°	208.3	211.3	274.7	452.9	739.7	567.6	606.8	1219.7	1711.8	2979.8	2998.0
80°	138.9	141.9	169.1	292.9	507.2	525.3	374.4	564.6	618.9	869.5	603.8
82.5°	84.5	84.5	114.7	184.2	307.9	434.7	244.5	295.9	317.0	335.1	157.0
85°	33.2	33.2	69.4	120.8	193.2	202.3	154.0	172.1	181.1	196.2	72.5
87.5°	9.1	9.1	39.2	66.4	84.5	93.6	93.6	84.5	90.6	111.7	36.2
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°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2451.5	2442.4	2430.4	2418.3	2406.2	2397.2	2388.1	2388.1	2382.1	2373.0	2367.0
5°	2445.5	2430.4	2403.2	2382.1	2348.9	2324.7	2306.6	2291.5	2282.4	2261.3	2258.3
7.5°	2436.4	2418.3	2379.0	2336.8	2282.4	2240.2	2197.9	2167.7	2137.5	2113.4	2107.3
10°	2421.3	2400.2	2342.8	2282.4	2207.0	2128.5	2028.8	1914.1	1808.4	1748.1	1729.9
12.5°	2421.3	2394.1	2318.7	2237.1	2128.5	1935.2	1681.6	1428.0	1231.8	1144.2	1120.1
15°	2436.4	2400.2	2300.5	2188.8	1986.6	1594.1	1183.5	848.4	634.0	567.6	552.5
17.5°	2451.5	2400.2	2273.4	2122.4	1726.9	1156.3	673.3	446.8	377.4	362.3	362.3
20°	2457.5	2394.1	2237.1	1998.6	1379.7	718.5	401.5	335.1	307.9	298.9	298.9
22.5°	2481.7	2397.2	2210.0	1820.5	1002.3	422.7	317.0	280.8	253.6	244.5	244.5
25°	2542.1	2433.4	2216.0	1594.1	643.1	320.0	268.7	232.5	205.3	193.2	193.2
27.5°	2638.7	2514.9	2249.2	1331.4	404.6	274.7	226.4	187.2	166.0	154.0	154.0
30°	2747.4	2605.5	2264.3	1029.5	301.9	232.5	184.2	147.9	132.8	123.8	120.8
32.5°	2937.6	2762.5	2252.2	706.5	247.6	196.2	147.9	117.7	105.7	102.6	102.6
35°	3242.5	3037.2	2228.1	443.8	205.3	157.0	117.7	96.6	87.6	84.5	81.5
37.5°	3656.1	3438.7	2155.6	292.9	169.1	123.8	96.6	81.5	72.5	69.4	69.4
40°	4160.3	3897.6	2016.8	223.4	144.9	99.6	81.5	69.4	63.4	60.4	60.4
42.5°	4736.9	4407.9	1796.4	193.2	120.8	84.5	69.4	57.4	54.3	51.3	51.3
45°	5367.9	4942.2	1491.4	172.1	102.6	69.4	57.4	51.3	45.3	45.3	42.3
47.5°	6038.2	5479.6	1147.3	151.0	87.6	60.4	51.3	42.3	39.2	36.2	36.2
50°	6684.3	5959.7	806.1	129.8	72.5	51.3	42.3	36.2	33.2	30.2	30.2
52.5°	7140.1	6249.5	570.6	111.7	60.4	45.3	33.2	27.2	24.2	24.2	24.2
55°	7505.5	6430.7	398.5	93.6	51.3	39.2	27.2	21.1	21.1	18.1	18.1
57.5°	7849.6	6548.4	292.9	78.5	42.3	30.2	21.1	15.1	15.1	12.1	12.1
60°	8205.9	6611.8	223.4	63.4	36.2	24.2	15.1	12.1	9.1	9.1	9.1
62.5°	8565.2	6651.1	172.1	51.3	30.2	18.1	12.1	9.1	6.0	3.0	3.0
65°	8879.1	6663.1	132.8	39.2	24.2	12.1	9.1	3.0	0.0	0.0	0.0
67.5°	8972.7	6524.3	102.6	30.2	18.1	9.1	6.0	0.0	0.0	0.0	0.0
70°	8719.1	6155.9	78.5	24.2	15.1	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	7737.9	5162.6	60.4	15.1	12.1	6.0	3.0	0.0	0.0	0.0	0.0
75°	5537.0	2753.4	42.3	12.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	2548.1	1065.7	30.2	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	498.1	265.7	12.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	114.7	45.3	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	15.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.0	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)