

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: P399698

Luminaire Tested: **ARCH-L-PA3-180-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399698
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-PA3-180-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA 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: 15454 lumens
Efficiency: N/A
Efficacy: 85.4 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

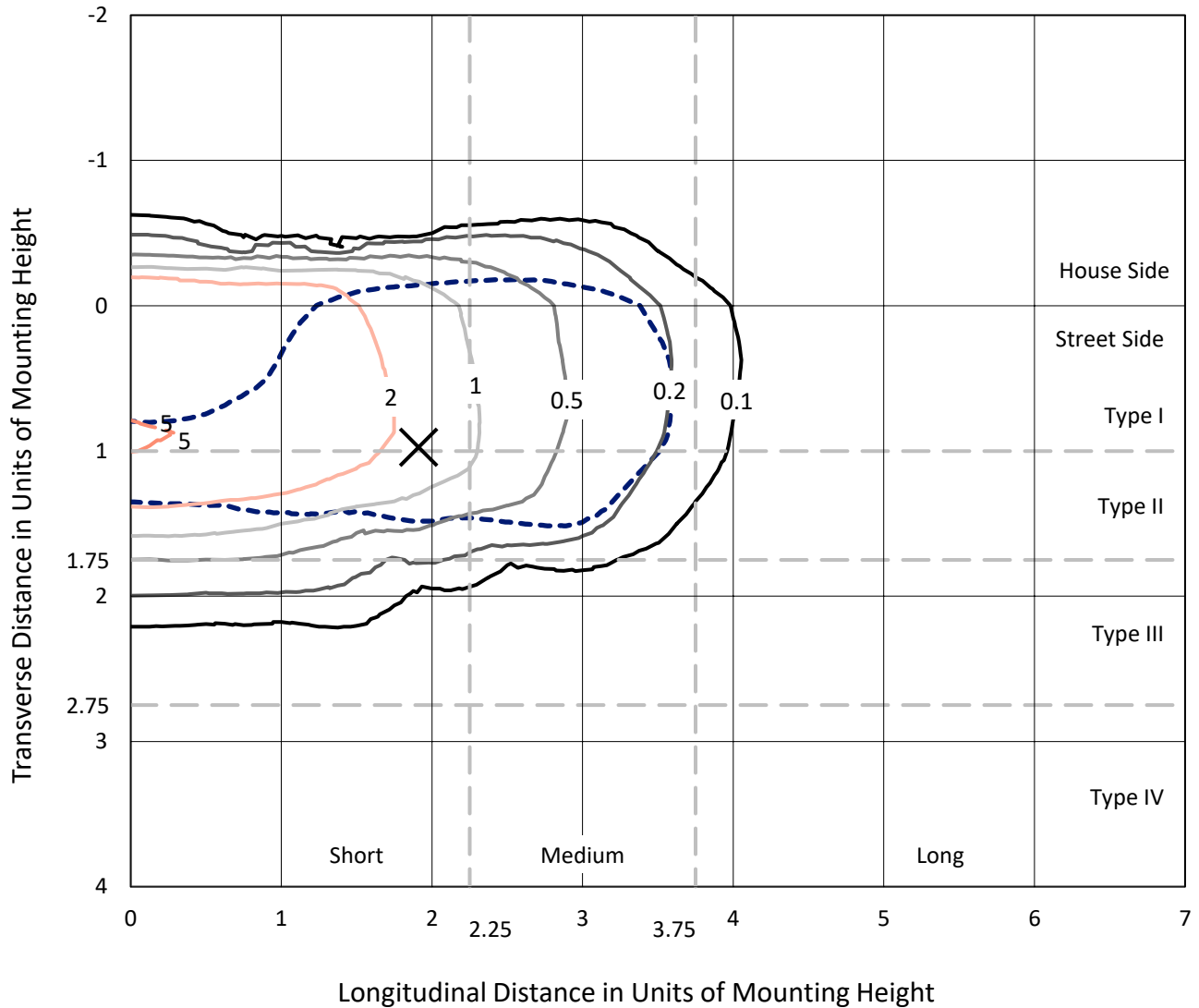
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

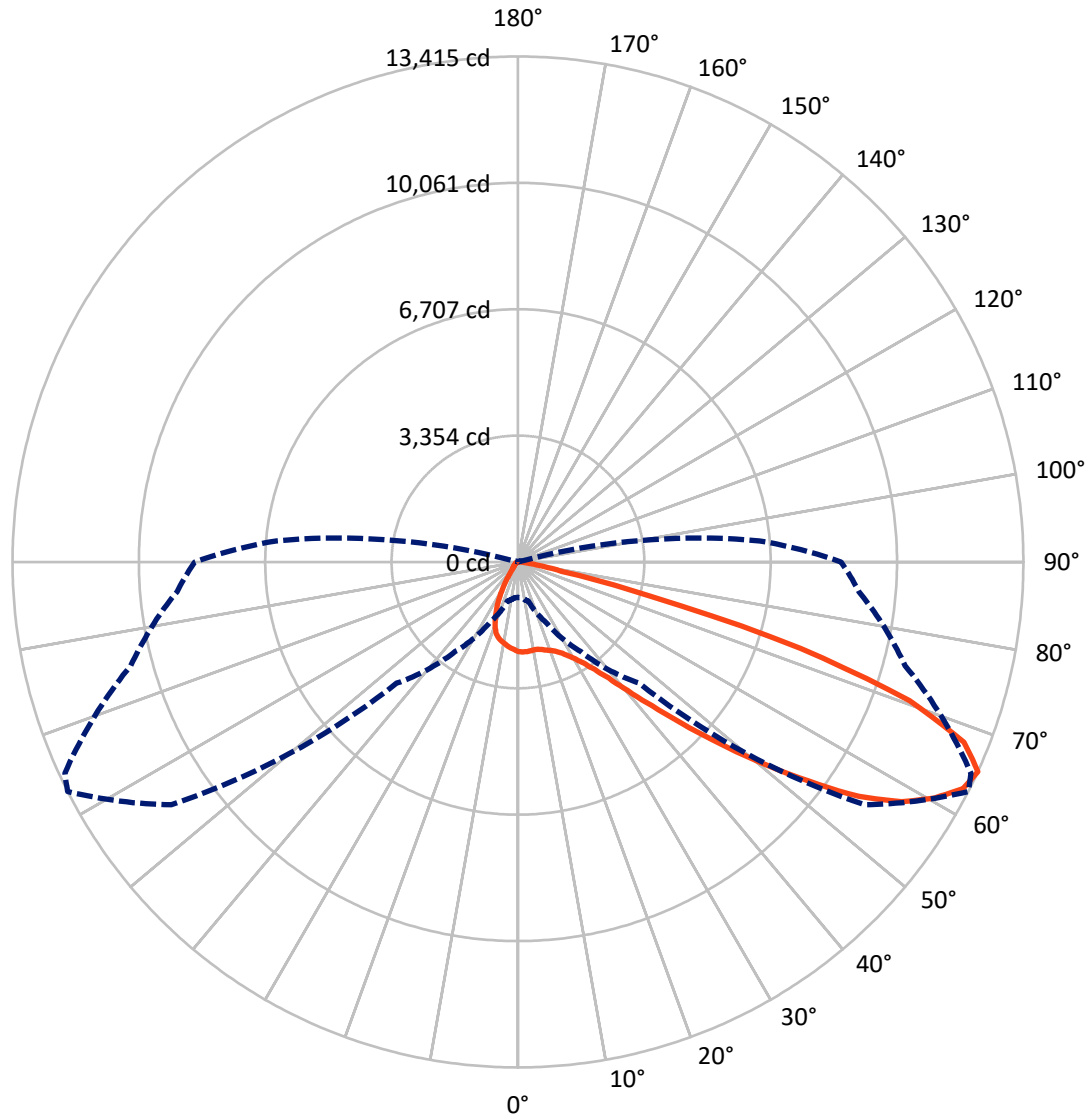
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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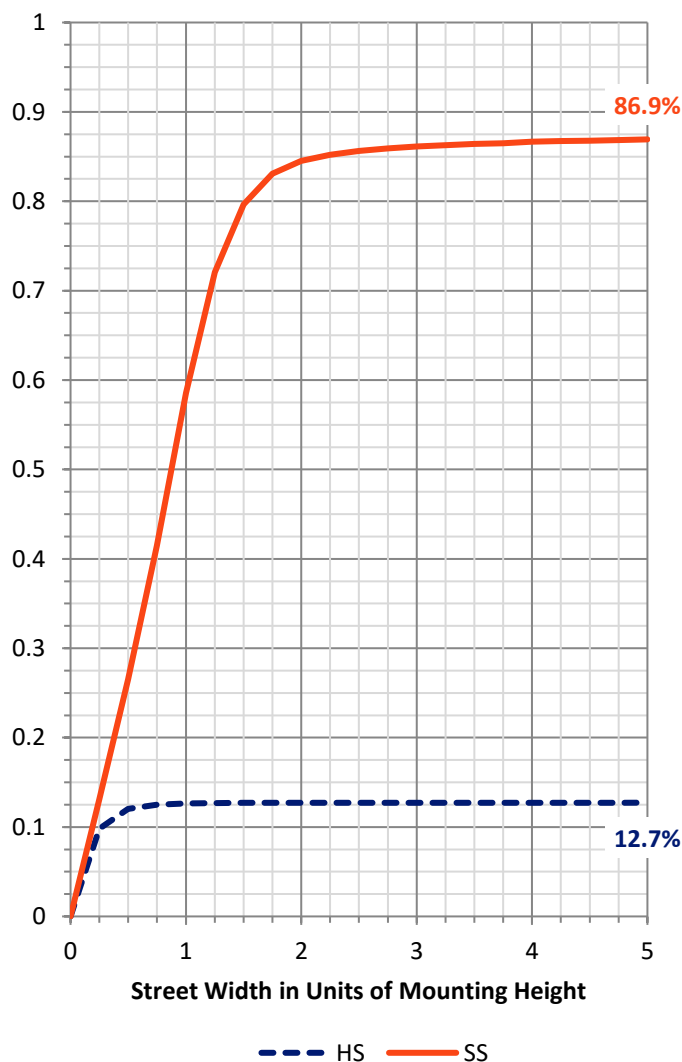
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.9	0.0	1988.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13465.1	0.0	13465.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	15454.0	0.0	15454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	1.4
10°-20°	535.9	3.5
20°-30°	794.3	5.1
30°-40°	1474.8	9.5
40°-50°	3124.3	20.2
50°-60°	4320.1	28.0
60°-70°	3458.4	22.4
70°-80°	1436.9	9.3
80°-90°	92.3	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°	15454.0	100.0
0°-180°	15454.0	100.0

Coefficient of Utilization

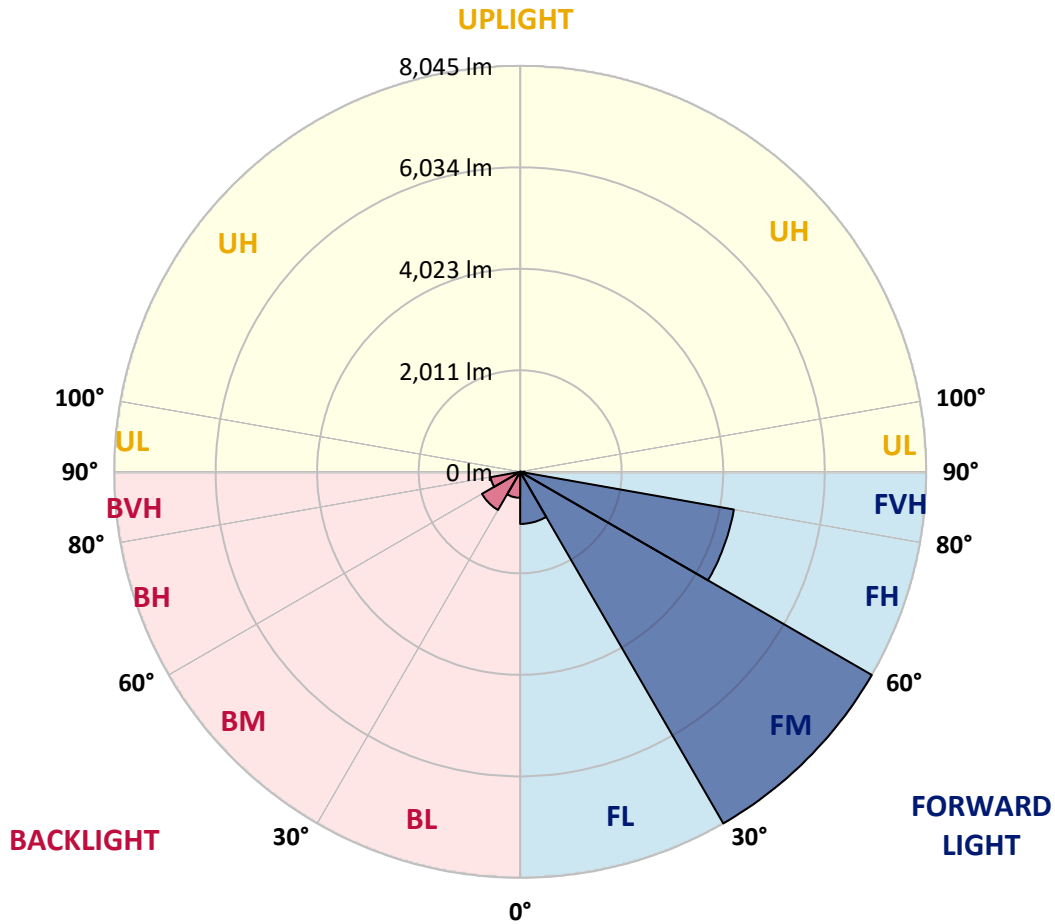


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.0	6.7			
FM (30°-60°)	8045.4	52.1			
FH (60°-80°)	4299.7	27.8			G2/5000
FVH (80°-90°)	88.1	0.6			G1/100
BL (0°-30°)	515.5	3.3	B2/1000		
BM (30°-60°)	873.7	5.7	B1/1000		
BH (60°-80°)	595.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7
2.5°	2421.5	2415.7	2409.9	2407.0	2407.0	2404.0	2392.4	2389.4	2383.6	2377.8	2371.9
5°	2398.2	2389.4	2386.5	2389.4	2392.4	2398.2	2392.4	2392.4	2386.5	2380.7	2369.0
7.5°	2339.9	2334.0	2336.9	2345.7	2348.6	2369.0	2371.9	2380.7	2380.7	2374.9	2366.1
10°	2269.8	2266.9	2266.9	2281.5	2296.1	2325.3	2345.7	2369.0	2371.9	2371.9	2357.4
12.5°	2217.3	2214.4	2223.2	2240.7	2269.8	2307.8	2342.8	2377.8	2383.6	2386.5	2363.2
15°	2185.2	2185.2	2196.9	2231.9	2272.7	2325.3	2366.1	2412.8	2418.6	2415.7	2383.6
17.5°	2156.0	2159.0	2182.3	2240.7	2287.3	2357.4	2407.0	2459.5	2462.4	2459.5	2407.0
20°	2144.4	2150.2	2185.2	2261.1	2313.6	2392.4	2456.6	2509.1	2512.0	2500.3	2430.3
22.5°	2176.5	2179.4	2223.2	2304.8	2354.4	2442.0	2523.7	2573.3	2576.2	2558.7	2465.3
25°	2287.3	2287.3	2325.3	2395.3	2439.0	2526.6	2614.1	2672.4	2672.4	2652.0	2544.1
27.5°	2547.0	2523.7	2514.9	2535.3	2549.9	2643.3	2736.6	2809.6	2806.7	2777.5	2646.2
30°	3048.8	2990.5	2897.1	2792.1	2739.6	2803.7	2891.3	2984.6	2981.7	2935.0	2771.6
32.5°	3892.0	3807.4	3585.6	3308.5	3083.8	3010.9	3092.6	3194.7	3197.6	3142.2	2973.0
35°	5073.6	4939.4	4542.6	4157.5	3644.0	3366.8	3390.2	3501.0	3536.0	3506.9	3311.4
37.5°	6211.4	6088.9	5709.6	5175.7	4478.4	3912.4	3813.2	3909.5	3950.3	3950.3	3743.2
40°	7358.0	7215.0	6879.5	6342.7	5607.5	4764.3	4408.4	4487.1	4530.9	4539.7	4268.3
42.5°	8277.0	8183.6	7926.9	7509.7	6821.2	6258.1	5266.1	5222.4	5263.2	5231.1	4878.1
45°	8913.0	8840.1	8662.1	8504.6	8169.1	7886.1	6412.7	6118.0	6144.3	6033.4	5563.7
47.5°	9044.3	8962.6	8924.7	9143.5	9382.7	9452.8	7821.9	7182.9	7156.7	6911.6	6275.6
50°	8472.5	8481.2	8621.3	9245.6	10243.4	10873.6	9455.7	8385.0	8288.7	7743.1	6937.9
52.5°	7238.4	7378.4	7731.4	8743.8	10506.0	11906.4	11089.5	9659.9	9511.1	8551.3	7433.8
55°	5662.9	5843.8	6424.4	7588.5	9957.5	12367.4	12466.6	10984.5	10646.0	9158.1	7819.0
57.5°	4210.0	4265.4	4942.3	6004.3	8659.2	11915.2	13172.6	12005.6	11570.9	9642.4	8201.2
60°	2622.9	2657.9	3372.7	4571.8	6558.6	10243.4	13172.6	12708.7	12294.4	10077.1	8551.3
62.5°	1630.9	1642.6	1911.0	3133.4	4458.0	7597.2	12627.0	13254.3	12921.7	10389.3	8851.8
65°	939.4	951.1	1076.6	1770.9	2900.0	4548.4	11232.5	13414.8	13266.0	10637.3	9085.2
67.5°	685.6	691.5	741.1	994.9	1896.4	2336.9	8437.5	12770.0	12956.7	10759.8	9079.3
70°	595.2	603.9	668.1	776.1	1368.3	1435.4	4294.6	11028.2	11550.5	10584.8	8808.0
72.5°	458.1	469.7	566.0	729.4	1003.6	1032.8	1555.0	7848.1	8638.8	9490.7	8064.0
75°	315.1	326.8	423.0	601.0	828.6	773.1	854.8	3611.9	4557.2	6366.0	6138.5
77.5°	201.3	204.2	265.5	437.6	714.8	548.5	586.4	1178.7	1654.2	2879.6	2897.1
80°	134.2	137.1	163.4	283.0	490.1	507.6	361.8	545.6	598.1	840.2	583.5
82.5°	81.7	81.7	110.9	178.0	297.6	420.1	236.3	285.9	306.3	323.8	151.7
85°	32.1	32.1	67.1	116.7	186.7	195.5	148.8	166.3	175.1	189.6	70.0
87.5°	8.8	8.8	37.9	64.2	81.7	90.4	90.4	81.7	87.5	107.9	35.0
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°	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7
2.5°	2369.0	2360.3	2348.6	2336.9	2325.3	2316.5	2307.8	2307.8	2301.9	2293.2	2287.3
5°	2363.2	2348.6	2322.3	2301.9	2269.8	2246.5	2229.0	2214.4	2205.6	2185.2	2182.3
7.5°	2354.4	2336.9	2299.0	2258.2	2205.6	2164.8	2124.0	2094.8	2065.6	2042.3	2036.4
10°	2339.9	2319.4	2264.0	2205.6	2132.7	2056.9	1960.6	1849.7	1747.6	1689.2	1671.7
12.5°	2339.9	2313.6	2240.7	2161.9	2056.9	1870.1	1625.1	1380.0	1190.3	1105.7	1082.4
15°	2354.4	2319.4	2223.2	2115.2	1919.7	1540.5	1143.7	819.8	612.7	548.5	533.9
17.5°	2369.0	2319.4	2196.9	2051.0	1668.8	1117.4	650.6	431.8	364.7	350.1	350.1
20°	2374.9	2313.6	2161.9	1931.4	1333.3	694.4	388.0	323.8	297.6	288.8	288.8
22.5°	2398.2	2316.5	2135.6	1759.3	968.6	408.5	306.3	271.3	245.1	236.3	236.3
25°	2456.6	2351.5	2141.5	1540.5	621.4	309.3	259.7	224.6	198.4	186.7	186.7
27.5°	2549.9	2430.3	2173.6	1286.6	390.9	265.5	218.8	180.9	160.5	148.8	148.8
30°	2654.9	2517.8	2188.1	994.9	291.8	224.6	178.0	143.0	128.4	119.6	116.7
32.5°	2838.7	2669.5	2176.5	682.7	239.2	189.6	143.0	113.8	102.1	99.2	99.2
35°	3133.4	2935.0	2153.1	428.9	198.4	151.7	113.8	93.4	84.6	81.7	78.8
37.5°	3533.1	3323.1	2083.1	283.0	163.4	119.6	93.4	78.8	70.0	67.1	67.1
40°	4020.3	3766.5	1948.9	215.9	140.0	96.3	78.8	67.1	61.3	58.4	58.4
42.5°	4577.6	4259.6	1735.9	186.7	116.7	81.7	67.1	55.4	52.5	49.6	49.6
45°	5187.4	4776.0	1441.3	166.3	99.2	67.1	55.4	49.6	43.8	43.8	40.8
47.5°	5835.0	5295.3	1108.7	145.9	84.6	58.4	49.6	40.8	37.9	35.0	35.0
50°	6459.4	5759.2	779.0	125.5	70.0	49.6	40.8	35.0	32.1	29.2	29.2
52.5°	6899.9	6039.3	551.4	107.9	58.4	43.8	32.1	26.3	23.3	23.3	23.3
55°	7253.0	6214.3	385.1	90.4	49.6	37.9	26.3	20.4	20.4	17.5	17.5
57.5°	7585.6	6328.1	283.0	75.9	40.8	29.2	20.4	14.6	14.6	11.7	11.7
60°	7929.8	6389.4	215.9	61.3	35.0	23.3	14.6	11.7	8.8	8.8	8.8
62.5°	8277.0	6427.3	166.3	49.6	29.2	17.5	11.7	8.8	5.8	2.9	2.9
65°	8580.4	6439.0	128.4	37.9	23.3	11.7	8.8	2.9	0.0	0.0	0.0
67.5°	8670.9	6304.8	99.2	29.2	17.5	8.8	5.8	0.0	0.0	0.0	0.0
70°	8425.8	5948.8	75.9	23.3	14.6	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	7477.6	4989.0	58.4	14.6	11.7	5.8	2.9	0.0	0.0	0.0	0.0
75°	5350.7	2660.8	40.8	11.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	2462.4	1029.9	29.2	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
80°	481.4	256.7	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.9	43.8	5.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.9	14.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	5.8	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)