

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: P400323

Luminaire Tested: **ARCH-L-PA3-260-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-827-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18204 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

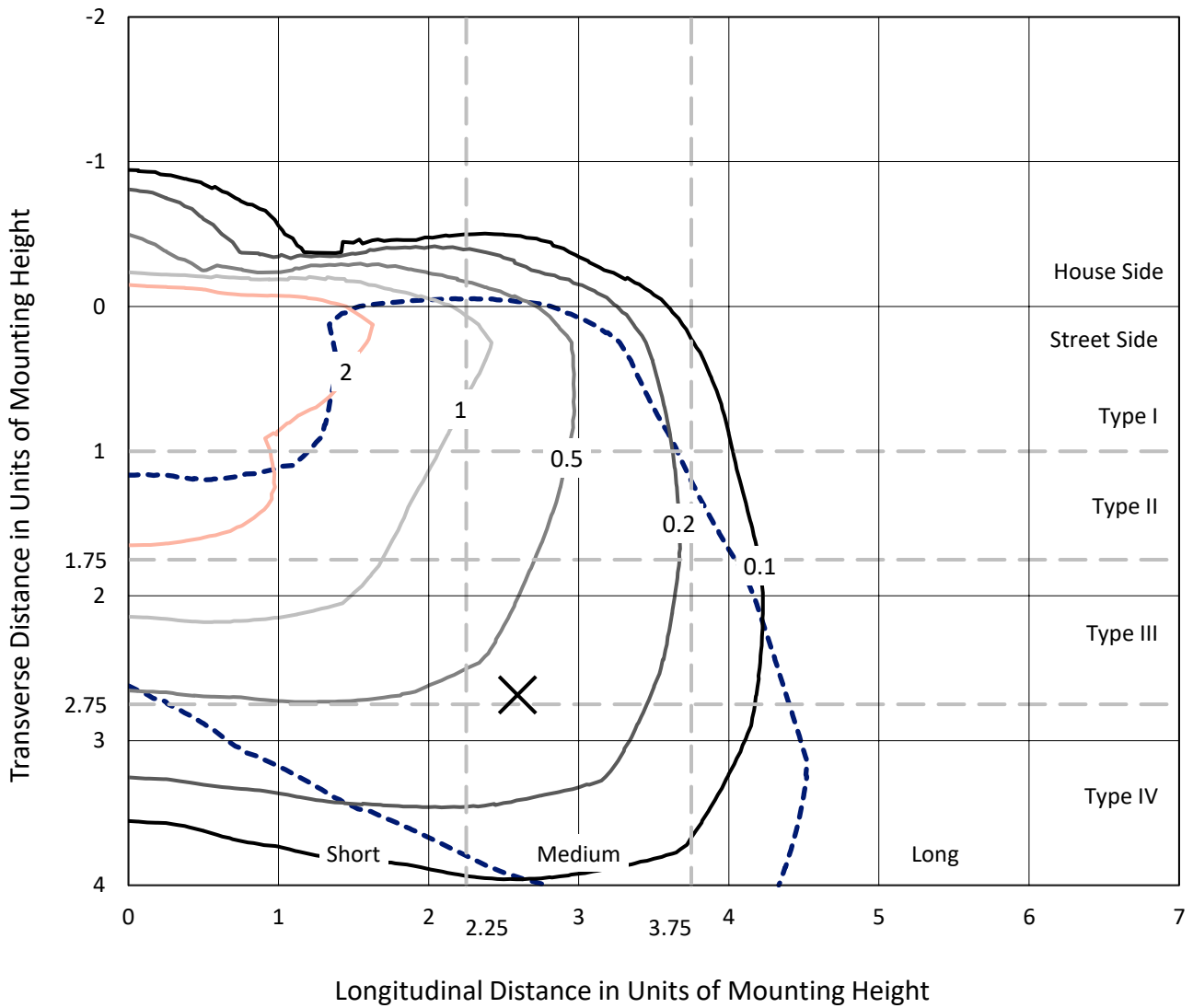
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

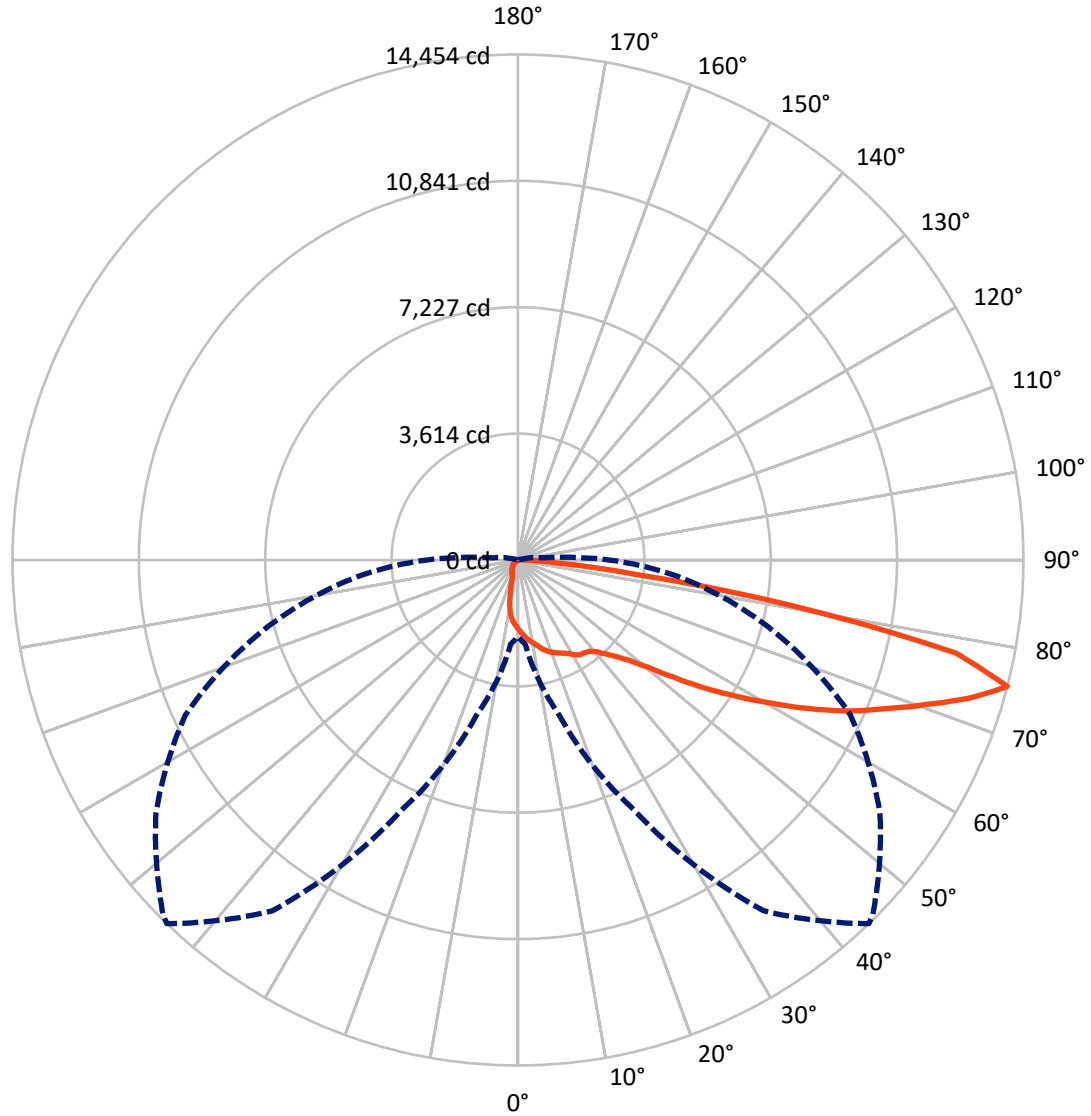
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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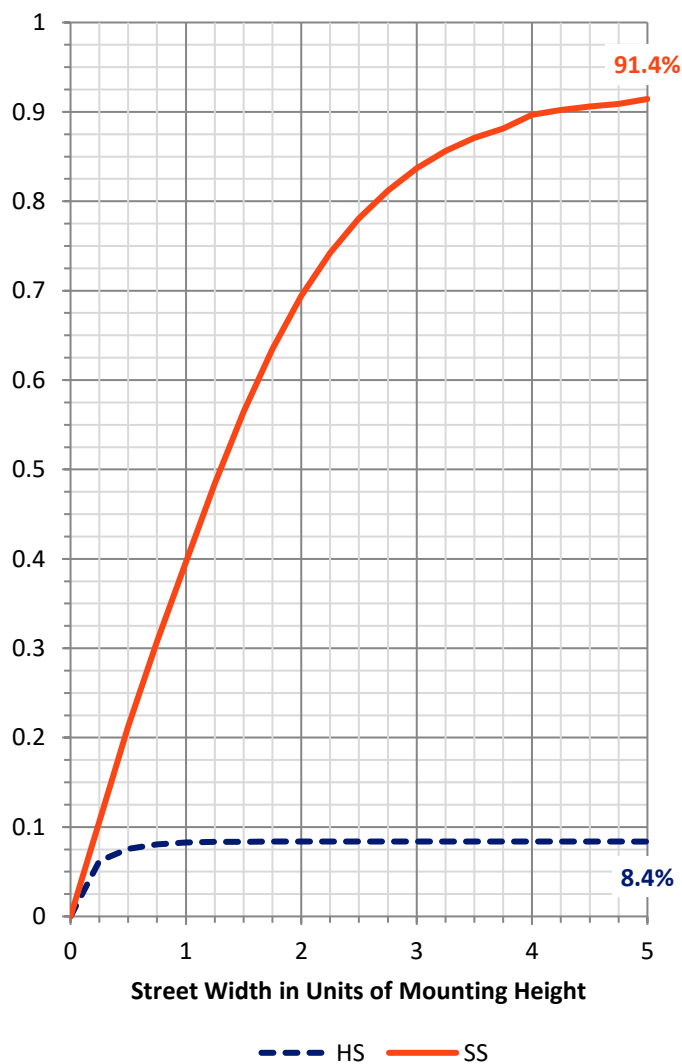
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.2	0.0	1535.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16668.8	0.0	16668.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	18204.0	0.0	18204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.0
10°-20°	523.6	2.9
20°-30°	864.1	4.7
30°-40°	1254.2	6.9
40°-50°	2038.7	11.2
50°-60°	3594.1	19.7
60°-70°	5165.4	28.4
70°-80°	4136.3	22.7
80°-90°	440.7	2.4
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°	18204.0	100.0
0°-180°	18204.0	100.0

Coefficient of Utilization



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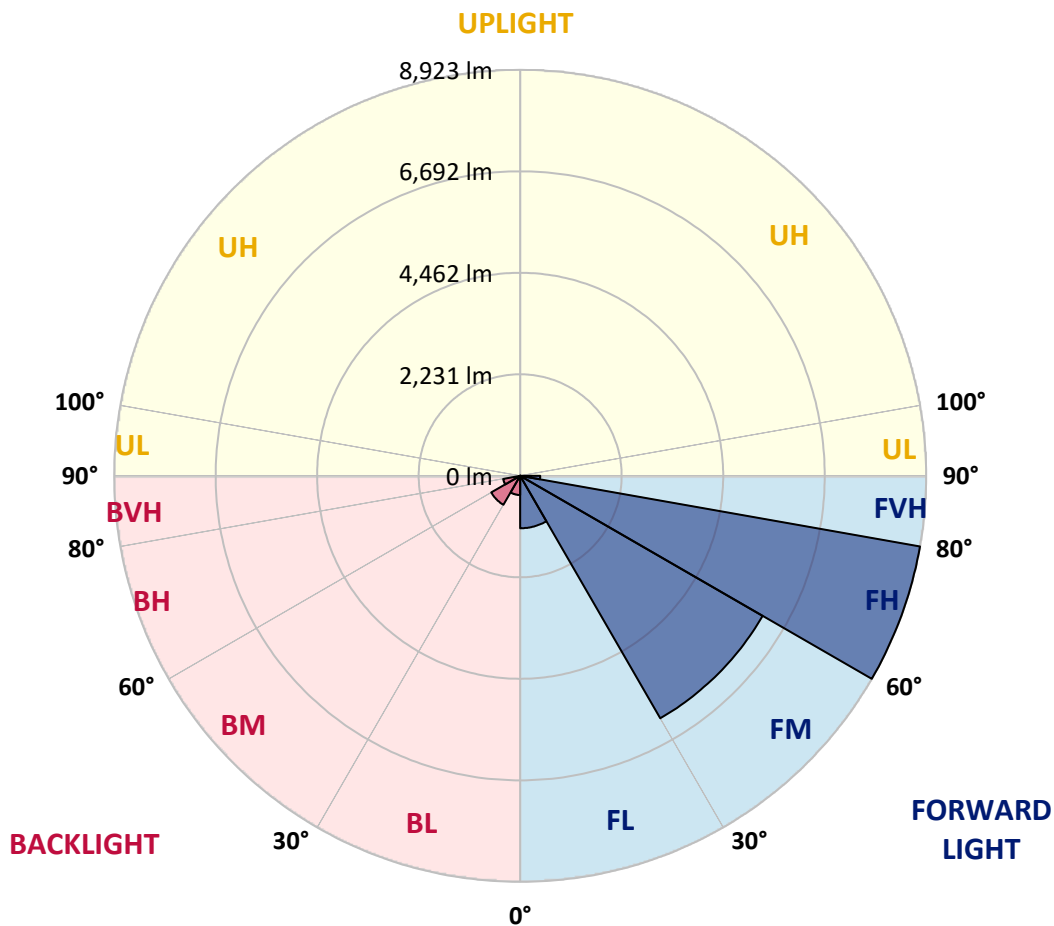
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.8	6.3			
FM (30°-60°)	6153.1	33.8			
FH (60°-80°)	8923.3	49.0			G4/12000
FVH (80°-90°)	439.6	2.4			G3/500
BL (0°-30°)	421.8	2.3	B1/500		
BM (30°-60°)	733.9	4.0	B1/1000		
BH (60°-80°)	378.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4
2.5°	2159.4	2156.1	2146.0	2129.2	2112.4	2095.6	2092.3	2065.4	2035.2	2011.7	1991.5
5°	2350.9	2347.5	2330.7	2293.8	2256.8	2213.2	2209.8	2146.0	2088.9	2025.1	1971.4
7.5°	2549.0	2542.3	2512.1	2455.0	2391.2	2324.0	2317.3	2223.2	2139.3	2055.3	1978.1
10°	2703.5	2696.8	2653.1	2585.9	2498.6	2414.7	2404.6	2307.2	2223.2	2115.8	2011.7
12.5°	2854.6	2841.2	2784.1	2710.2	2602.7	2522.1	2512.1	2411.3	2310.6	2199.7	2072.1
15°	2995.7	2978.9	2925.1	2831.1	2716.9	2639.7	2633.0	2525.5	2421.4	2293.8	2152.7
17.5°	3093.1	3086.3	3022.5	2918.4	2807.6	2743.8	2737.1	2626.2	2522.1	2387.8	2236.7
20°	3143.4	3143.4	3083.0	2968.8	2868.0	2824.4	2814.3	2710.2	2609.5	2481.8	2324.0
22.5°	3153.5	3163.6	3116.6	2992.3	2918.4	2881.5	2874.8	2784.1	2686.7	2569.2	2421.4
25°	3173.7	3173.7	3150.1	3015.8	2962.1	2952.0	2948.6	2868.0	2780.7	2663.2	2518.8
27.5°	3197.2	3197.2	3180.4	3049.4	3029.2	3025.9	3022.5	2985.6	2915.1	2777.4	2633.0
30°	3257.6	3261.0	3247.5	3116.6	3103.1	3140.1	3146.8	3126.6	3039.3	2868.0	2750.5
32.5°	3408.7	3378.5	3341.6	3163.6	3187.1	3234.1	3237.5	3197.2	3103.1	2965.4	2891.6
35°	3788.2	3610.2	3442.3	3203.9	3214.0	3261.0	3267.7	3264.3	3207.2	3089.7	3052.8
37.5°	4140.9	3889.0	3650.5	3297.9	3264.3	3314.7	3328.1	3385.2	3341.6	3261.0	3271.0
40°	4345.7	4248.3	4080.4	3556.5	3365.1	3442.3	3455.8	3543.1	3526.3	3492.7	3556.5
42.5°	4977.1	4983.8	4802.5	3942.7	3549.8	3674.1	3690.8	3761.4	3784.9	3801.7	3956.2
45°	5709.2	5732.7	5689.1	4637.9	3899.1	3939.4	3962.9	4056.9	4144.2	4251.7	4533.8
47.5°	6589.1	6569.0	6407.8	5487.6	4506.9	4281.9	4298.7	4480.1	4631.2	4866.3	5269.3
50°	7368.3	7418.6	7113.0	6280.1	5363.3	4822.6	4805.8	4983.8	5255.8	5585.0	6092.1
52.5°	8154.1	8080.2	7667.2	7066.0	6377.5	5558.1	5507.7	5605.1	5988.0	6377.5	6898.1
55°	8362.3	8369.0	8228.0	7925.7	7223.8	6451.4	6367.5	6360.7	6837.6	7102.9	7744.4
57.5°	8772.1	8788.8	8822.4	8882.9	8550.4	7344.7	7257.4	7163.4	7626.9	7781.3	8594.1
60°	9188.5	9208.6	9413.5	9739.3	9517.6	8308.6	8214.6	7992.9	8251.5	8459.7	9487.4
62.5°	9134.8	9275.8	9870.2	10518.4	10491.5	9366.5	9248.9	8715.0	8879.5	9060.9	10306.8
65°	8248.1	8399.3	9735.9	10733.3	11468.8	10410.9	10219.5	9460.5	9470.6	9688.9	11096.0
67.5°	7455.6	7620.1	8896.3	10642.7	12113.6	11347.9	11149.8	10209.4	10051.6	10414.3	11519.2
70°	6998.8	7163.4	8228.0	10360.6	12295.0	12385.7	12214.4	11065.8	10743.4	11075.9	11045.7
72.5°	5477.5	5736.1	7375.0	9823.2	12489.8	13497.3	13362.9	12150.6	11331.1	10384.1	8409.4
75°	2182.9	2421.4	4604.3	7905.6	12244.6	14454.4	14350.3	12637.5	10488.2	7415.3	4305.4
77.5°	658.2	705.3	1279.5	3909.1	8976.9	12815.5	12781.9	10625.9	7422.0	3442.3	1175.4
80°	218.3	241.8	392.9	1078.0	4097.2	8006.3	8157.5	6770.5	3371.8	789.2	238.4
82.5°	90.7	100.8	198.1	433.2	1450.8	3449.0	3398.7	3032.6	1175.4	490.3	87.3
85°	23.5	30.2	90.7	248.5	530.6	1188.9	1249.3	1017.6	665.0	406.4	26.9
87.5°	0.0	0.0	43.7	100.8	238.4	359.3	376.1	309.0	376.1	305.6	13.4
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°	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4
2.5°	1974.7	1957.9	1927.7	1907.6	1880.7	1874.0	1860.5	1843.7	1840.4	1823.6	1827.0
5°	1941.1	1914.3	1860.5	1823.6	1779.9	1766.5	1743.0	1726.2	1712.8	1689.3	1692.6
7.5°	1934.4	1894.1	1820.2	1749.7	1679.2	1628.8	1558.3	1501.2	1454.2	1403.8	1413.9
10°	1957.9	1907.6	1803.4	1706.1	1578.4	1417.2	1232.5	1111.6	1051.2	990.7	997.4
12.5°	2004.9	1944.5	1810.2	1662.4	1403.8	1128.4	873.2	708.6	665.0	638.1	641.4
15°	2075.5	2001.6	1830.3	1578.4	1168.7	816.1	581.0	510.5	527.3	537.3	537.3
17.5°	2149.4	2065.4	1847.1	1427.3	903.4	570.9	473.5	466.8	490.3	513.8	513.8
20°	2240.0	2132.6	1850.5	1235.9	651.5	463.5	446.7	446.7	463.5	490.3	490.3
22.5°	2327.3	2206.4	1820.2	1017.6	497.0	429.9	429.9	429.9	439.9	466.8	470.2
25°	2431.5	2297.1	1756.4	785.9	426.5	409.7	409.7	413.1	419.8	443.3	446.7
27.5°	2542.3	2391.2	1649.0	574.3	389.6	386.2	389.6	392.9	396.3	419.8	426.5
30°	2669.9	2495.3	1511.3	429.9	356.0	356.0	366.1	372.8	372.8	392.9	399.6
32.5°	2817.7	2633.0	1346.7	356.0	322.4	319.0	335.8	345.9	345.9	362.7	369.4
35°	3002.4	2774.0	1148.6	315.7	295.5	288.8	295.5	312.3	319.0	332.5	335.8
37.5°	3247.5	2941.9	937.0	292.2	275.4	262.0	262.0	265.3	278.7	292.2	295.5
40°	3559.9	3126.6	728.8	275.4	255.2	241.8	231.7	228.4	225.0	235.1	241.8
42.5°	3952.8	3334.9	544.1	258.6	238.4	218.3	204.9	191.4	174.6	171.3	174.6
45°	4456.6	3590.1	403.0	245.2	228.4	198.1	174.6	151.1	120.9	110.8	114.2
47.5°	5051.0	3855.4	315.7	231.7	221.7	174.6	144.4	104.1	73.9	67.2	70.5
50°	5682.4	4110.6	268.7	214.9	208.2	151.1	104.1	63.8	43.7	43.7	47.0
52.5°	6219.7	4255.1	245.2	201.5	188.1	124.3	67.2	36.9	26.9	26.9	30.2
55°	6740.2	4332.3	228.4	188.1	161.2	87.3	36.9	23.5	16.8	16.8	16.8
57.5°	7277.6	4365.9	208.2	171.3	127.6	53.7	20.2	13.4	10.1	10.1	10.1
60°	7754.5	4302.1	178.0	141.1	84.0	26.9	10.1	10.1	6.7	3.4	3.4
62.5°	8154.1	4181.2	124.3	100.8	50.4	13.4	6.7	3.4	0.0	0.0	0.0
65°	8399.3	3986.4	80.6	67.2	30.2	10.1	3.4	0.0	0.0	0.0	0.0
67.5°	8328.7	3620.3	50.4	43.7	13.4	6.7	3.4	0.0	0.0	0.0	0.0
70°	7516.0	2968.8	36.9	26.9	10.1	3.4	0.0	0.0	0.0	0.0	0.0
72.5°	5417.0	2008.3	26.9	16.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2606.1	715.3	16.8	13.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	638.1	157.8	10.1	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.1	30.2	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	13.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	3.4	0.0	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)