

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: P399574

Luminaire Tested: **ARCH-L-PA3-160-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18201 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

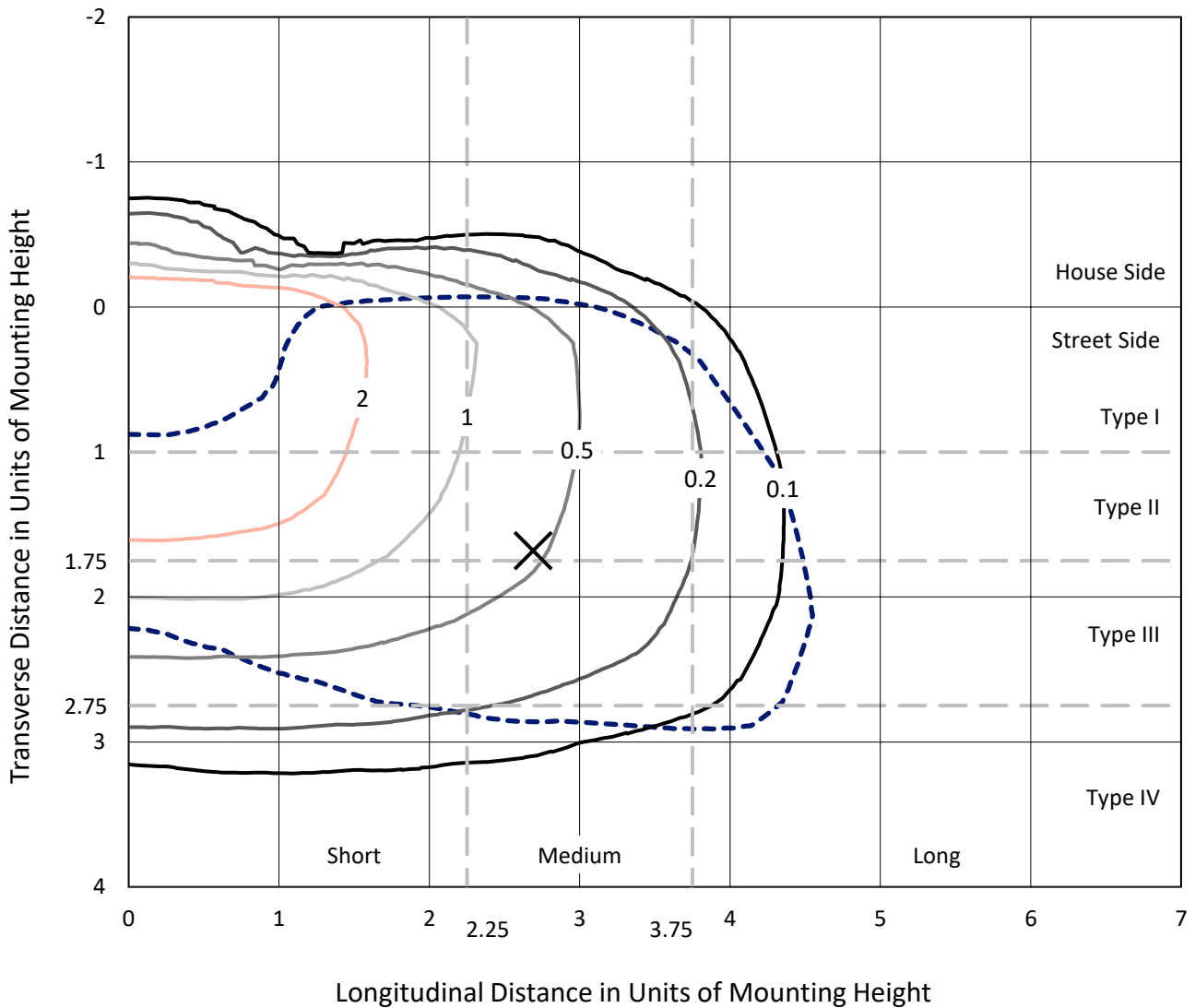
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

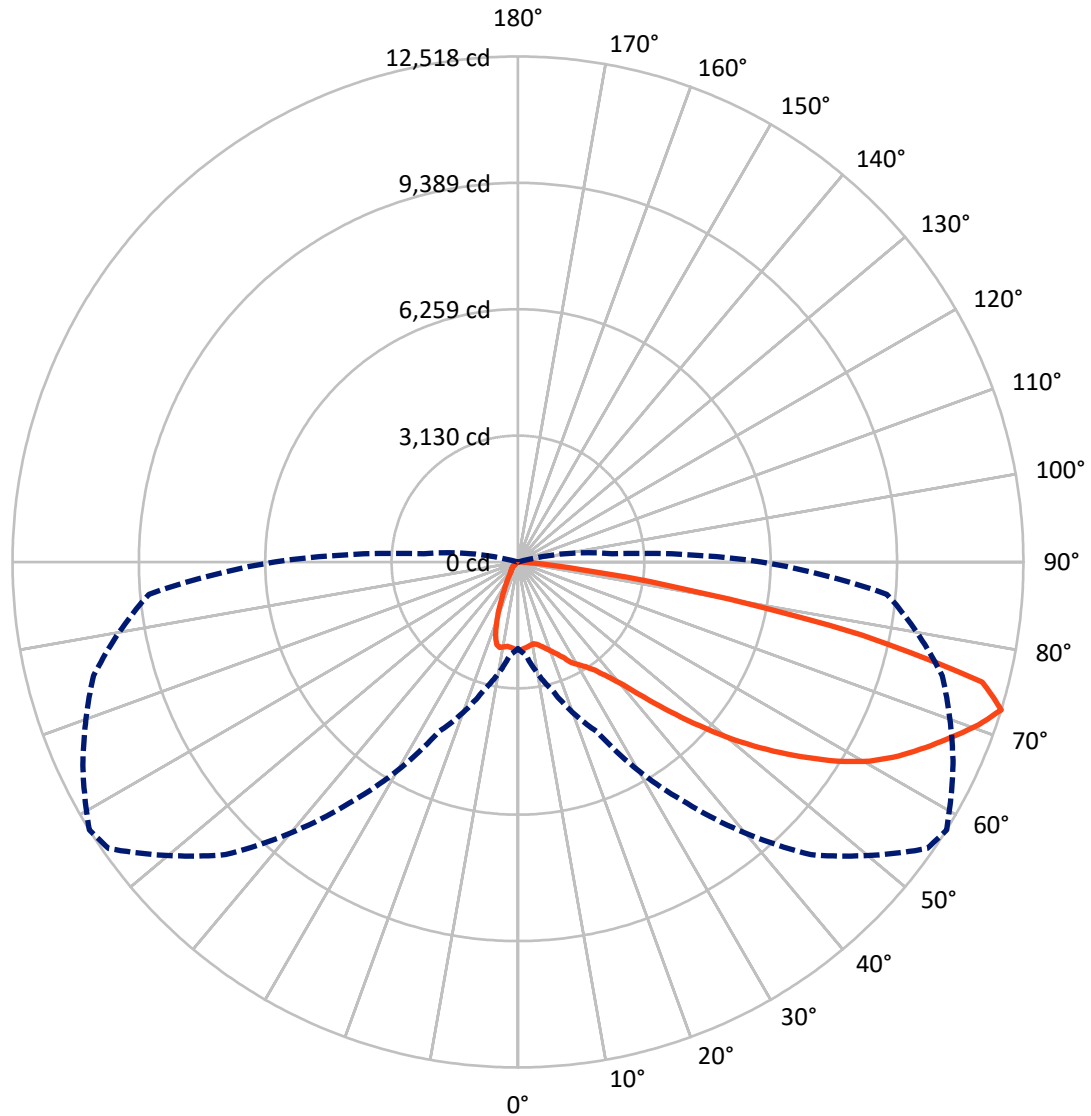
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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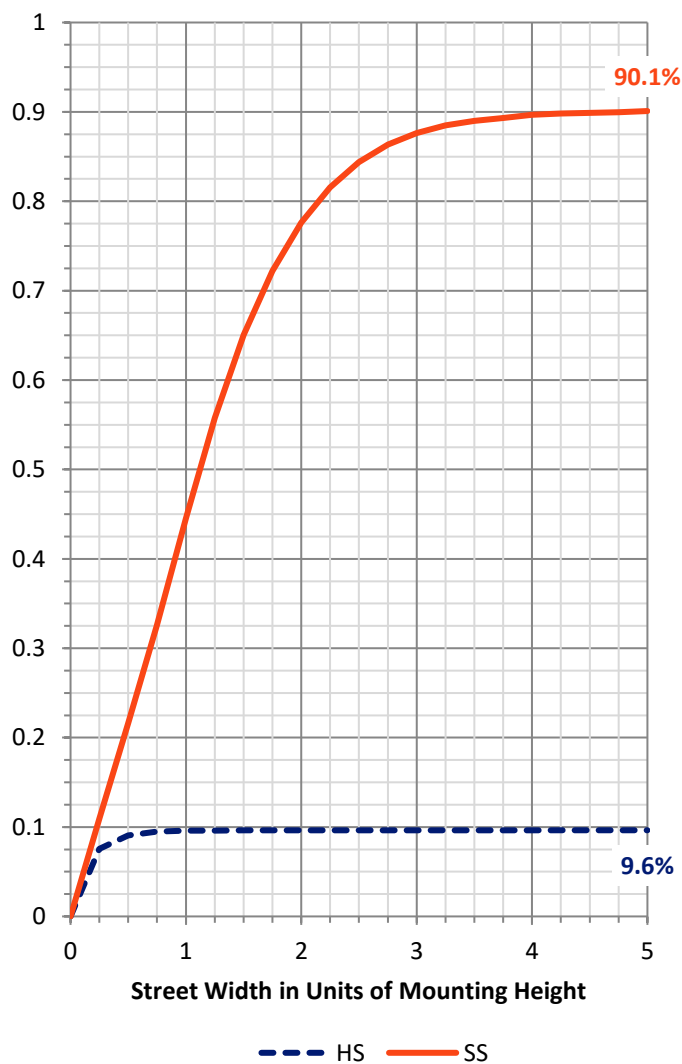
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.9	0.0	1769.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16431.1	0.0	16431.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	18201.0	0.0	18201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.1
10°-20°	522.0	2.9
20°-30°	820.1	4.5
30°-40°	1414.4	7.8
40°-50°	2690.9	14.8
50°-60°	4261.5	23.4
60°-70°	4972.7	27.3
70°-80°	3114.4	17.1
80°-90°	204.4	1.1
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°	18201.0	100.0
0°-180°	18201.0	100.0

Coefficient of Utilization



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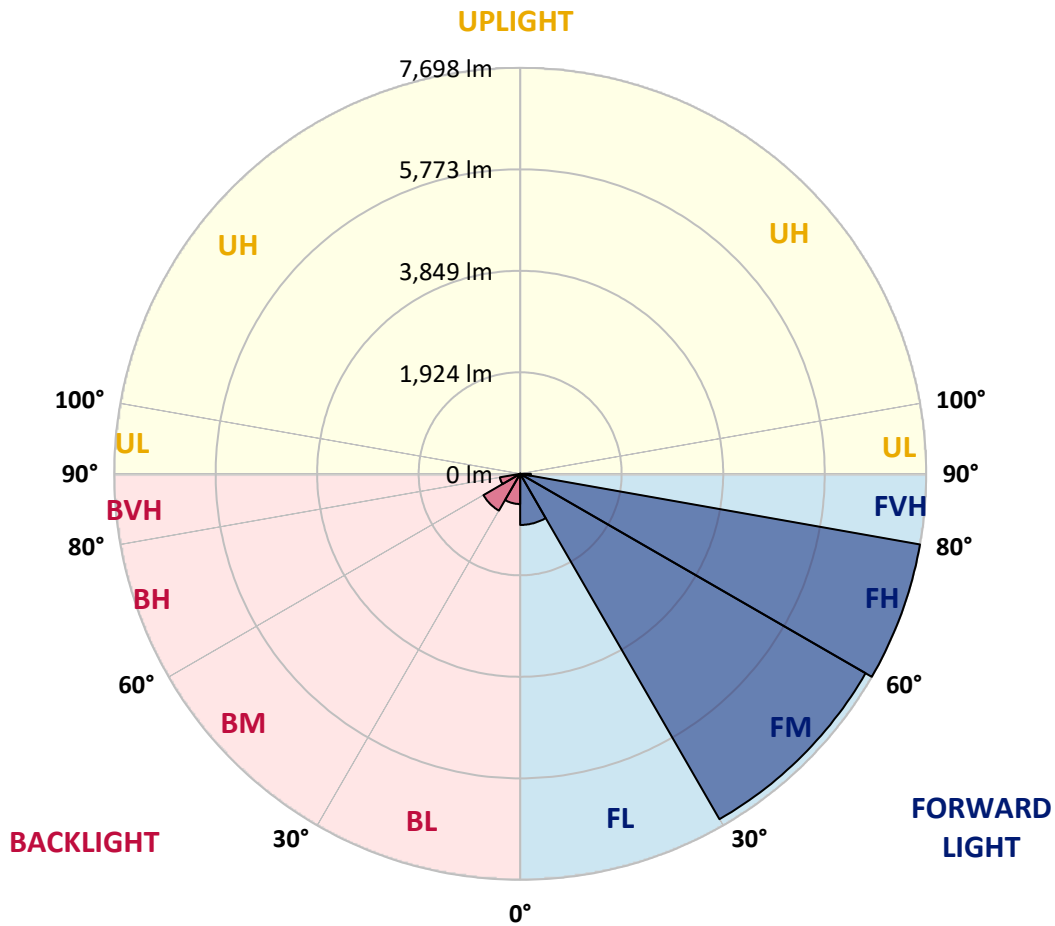
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.4	5.3			
FM (30°-60°)	7561.5	41.5			
FH (60°-80°)	7697.7	42.3			G4/12000
FVH (80°-90°)	202.5	1.1			G2/225
BL (0°-30°)	573.2	3.1	B2/1000		
BM (30°-60°)	805.3	4.4	B1/1000		
BH (60°-80°)	389.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0
2.5°	2174.2	2164.5	2161.2	2158.0	2161.2	2164.5	2154.7	2164.5	2158.0	2161.2	2167.7
5°	2096.1	2086.4	2083.1	2086.4	2096.1	2112.4	2118.9	2128.7	2128.7	2138.4	2141.7
7.5°	2008.2	2001.7	1998.5	2005.0	2024.5	2060.3	2079.9	2092.9	2105.9	2125.4	2145.0
10°	1959.4	1956.2	1952.9	1962.7	1982.2	2014.8	2040.8	2060.3	2109.1	2164.5	2200.3
12.5°	1926.9	1926.9	1933.4	1952.9	1979.0	2005.0	2066.8	2092.9	2167.7	2252.4	2301.2
15°	1900.8	1900.8	1910.6	1946.4	1982.2	2044.1	2135.2	2164.5	2252.4	2356.5	2421.6
17.5°	1881.3	1887.8	1894.3	1930.1	1998.5	2102.6	2210.0	2252.4	2359.8	2473.7	2545.3
20°	1884.6	1891.1	1894.3	1930.1	2027.8	2171.0	2307.7	2356.5	2480.2	2600.6	2672.2
22.5°	1904.1	1913.9	1917.1	1965.9	2079.9	2242.6	2418.4	2473.7	2607.1	2734.1	2789.4
25°	1985.5	1992.0	1972.4	2014.8	2154.7	2353.3	2561.6	2620.2	2753.6	2870.8	2916.4
27.5°	2262.1	2268.6	2161.2	2112.4	2213.3	2444.4	2737.3	2818.7	2984.7	3062.8	3069.3
30°	2861.0	2867.5	2656.0	2424.9	2353.3	2522.5	2835.0	2948.9	3163.7	3251.6	3212.5
32.5°	3632.4	3625.9	3336.2	2994.5	2685.3	2659.2	2974.9	3095.4	3329.7	3414.3	3385.1
35°	4407.1	4416.8	4169.5	3655.2	3212.5	2916.4	3154.0	3293.9	3577.1	3697.5	3645.4
37.5°	4937.6	5002.7	4895.3	4338.7	3860.3	3391.6	3443.6	3593.4	3948.1	4110.9	4000.2
40°	5686.2	5670.0	5409.6	4999.5	4576.3	4094.6	3912.3	3983.9	4390.8	4608.9	4436.4
42.5°	6692.0	6659.4	6216.8	5816.4	5344.5	4950.6	4579.6	4566.6	4898.6	5152.4	4901.8
45°	7603.3	7554.5	7251.8	6864.5	6347.0	5894.5	5393.3	5279.4	5510.5	5725.3	5432.4
47.5°	8329.2	8247.8	8033.0	7827.9	7701.0	6997.9	6246.1	6073.6	6190.7	6350.2	5936.9
50°	9188.5	8963.9	8651.4	8527.7	8791.4	8247.8	7066.3	6900.3	6893.8	6984.9	6457.6
52.5°	9579.0	9172.2	8996.4	9100.6	9566.0	9409.8	7951.6	7714.0	7619.6	7629.4	6942.6
55°	9107.1	9061.5	9155.9	9481.4	10090.1	9998.9	8801.1	8508.2	8368.2	8192.5	7408.1
57.5°	8570.0	8710.0	9084.3	9706.0	10754.0	10614.1	9637.6	9305.6	9048.5	8644.9	7925.6
60°	8075.3	8218.5	8836.9	9758.1	11118.6	11206.5	10334.2	10018.4	9637.6	9107.1	8495.2
62.5°	7323.4	7434.1	8303.1	9683.2	10959.1	11551.5	10819.1	10581.5	10226.8	9546.5	9149.4
65°	6477.2	6548.8	7408.1	9084.3	10646.6	11512.4	11219.5	11086.0	10741.0	10005.4	9797.1
67.5°	5549.5	5634.2	6350.2	8006.9	10034.7	11330.2	11597.1	11584.0	11190.2	10513.2	10265.8
70°	4481.9	4488.4	5080.8	6639.9	8967.1	10965.6	12065.8	12095.0	11619.8	10894.0	10285.3
72.5°	2145.0	2320.7	3293.9	4634.9	7287.6	10249.5	12371.7	12518.2	11890.0	10881.0	9175.4
75°	491.5	507.8	960.2	2203.5	4273.6	7867.0	11606.8	11880.2	11232.5	9409.8	6464.1
77.5°	179.0	188.8	270.2	644.5	1643.7	4065.3	8306.4	8706.7	8303.1	6083.3	3056.3
80°	120.4	117.2	140.0	286.4	755.1	1152.2	4247.6	4485.2	4094.6	2076.6	732.3
82.5°	61.8	65.1	97.6	159.5	507.8	400.3	1419.1	1542.8	1269.4	416.6	136.7
85°	29.3	29.3	55.3	100.9	214.8	140.0	315.7	380.8	341.8	182.3	45.6
87.5°	29.3	29.3	52.1	65.1	110.7	58.6	78.1	97.6	91.1	97.6	16.3
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°	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0	2184.0
2.5°	2167.7	2164.5	2161.2	2167.7	2164.5	2171.0	2171.0	2177.5	2177.5	2171.0	2167.7
5°	2138.4	2131.9	2125.4	2125.4	2122.2	2128.7	2148.2	2164.5	2167.7	2158.0	2154.7
7.5°	2141.7	2141.7	2135.2	2122.2	2099.4	2099.4	2099.4	2118.9	2128.7	2122.2	2118.9
10°	2200.3	2203.5	2187.3	2158.0	2118.9	2083.1	2014.8	1913.9	1819.5	1793.4	1783.7
12.5°	2301.2	2304.4	2271.9	2219.8	2138.4	1926.9	1666.5	1425.6	1240.1	1188.0	1178.3
15°	2421.6	2424.9	2366.3	2281.7	2034.3	1542.8	1155.5	882.1	719.3	680.3	677.0
17.5°	2545.3	2538.8	2450.9	2288.2	1725.1	1093.6	703.0	563.1	520.8	511.0	514.3
20°	2665.7	2646.2	2525.8	2167.7	1328.0	716.1	514.3	481.7	472.0	465.4	465.4
22.5°	2776.4	2737.3	2587.6	1930.1	930.9	514.3	458.9	452.4	439.4	429.6	426.4
25°	2887.1	2831.7	2626.7	1620.9	624.9	449.2	432.9	419.9	403.6	390.6	387.3
27.5°	3020.5	2942.4	2607.1	1230.3	468.7	416.6	403.6	384.1	361.3	341.8	335.3
30°	3147.4	3059.6	2496.5	849.5	400.3	384.1	364.5	335.3	306.0	283.2	276.7
32.5°	3306.9	3206.0	2297.9	556.6	348.3	335.3	315.7	279.9	240.9	214.8	208.3
35°	3534.8	3420.9	2044.1	390.6	306.0	283.2	257.1	218.1	175.8	156.2	153.0
37.5°	3853.8	3700.8	1725.1	315.7	270.2	237.6	198.5	159.5	130.2	113.9	110.7
40°	4244.3	4010.0	1370.3	279.9	240.9	198.5	149.7	113.9	94.4	81.4	81.4
42.5°	4667.5	4299.7	1009.0	257.1	211.6	162.7	110.7	81.4	68.4	61.8	58.6
45°	5103.6	4556.8	680.3	237.6	185.5	123.7	78.1	55.3	45.6	45.6	42.3
47.5°	5556.0	4729.3	439.4	214.8	156.2	91.1	52.1	39.1	32.5	32.5	32.5
50°	6005.2	4820.4	312.5	195.3	126.9	61.8	39.1	29.3	26.0	26.0	26.0
52.5°	6330.7	4761.9	250.6	169.3	97.6	45.6	29.3	22.8	19.5	19.5	19.5
55°	6613.9	4661.0	218.1	146.5	71.6	32.5	22.8	19.5	16.3	16.3	16.3
57.5°	6903.6	4530.8	195.3	123.7	52.1	22.8	16.3	13.0	13.0	13.0	13.0
60°	7167.2	4309.4	169.3	97.6	35.8	16.3	13.0	9.8	9.8	9.8	9.8
62.5°	7424.3	4120.6	146.5	74.9	26.0	13.0	6.5	6.5	3.3	3.3	3.3
65°	7570.8	3866.8	117.2	48.8	16.3	9.8	3.3	3.3	0.0	0.0	0.0
67.5°	7525.2	3564.1	81.4	29.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
70°	7209.5	3157.2	48.8	16.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	6037.8	2337.0	29.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	4032.8	1074.1	16.3	9.8	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1845.5	322.2	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	371.1	84.6	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.1	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	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)