

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: P399297

Luminaire Tested: **ARCH-L-PA3-120-750-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399297
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-PA3-120-750-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA 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: 14209 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

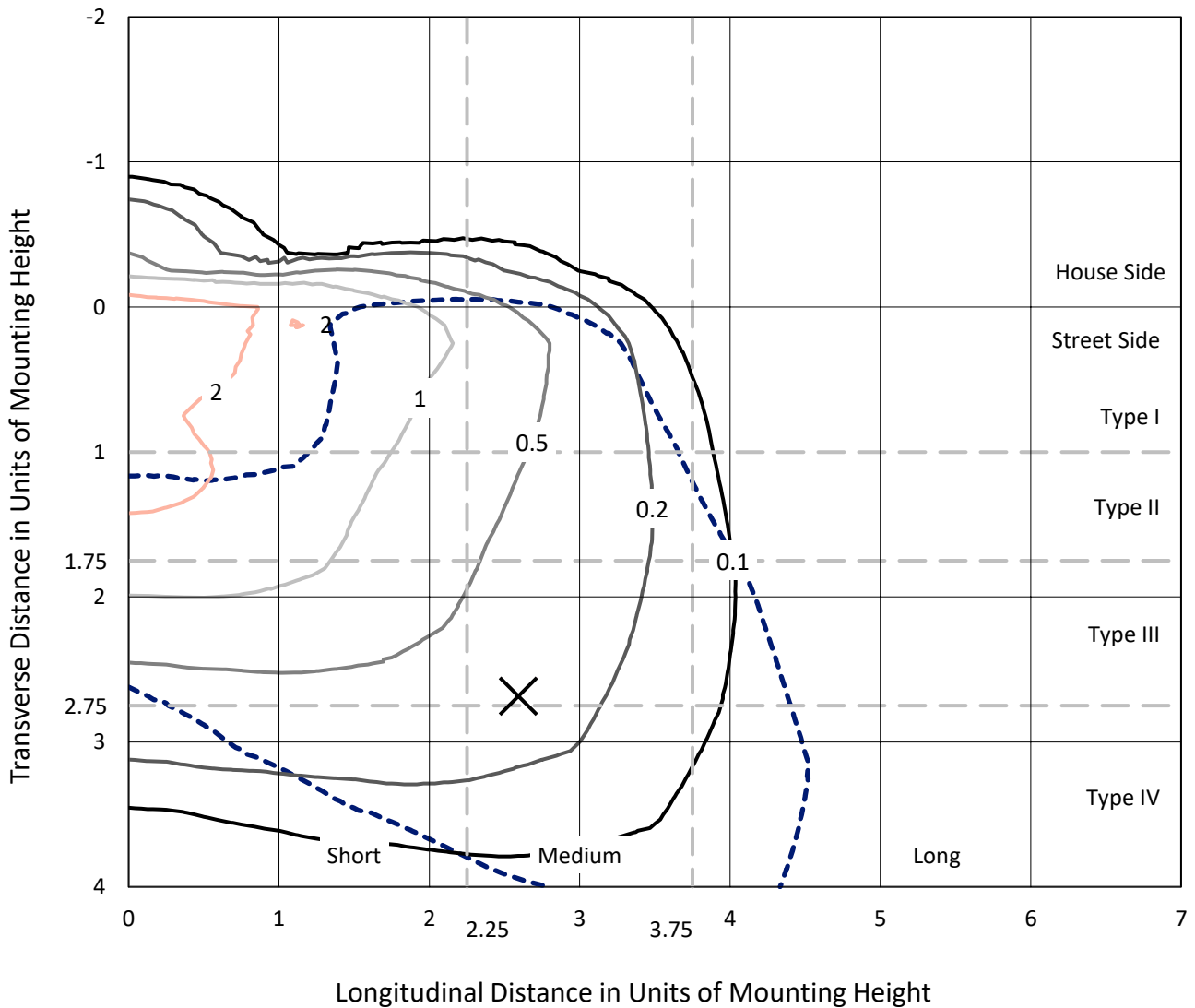
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

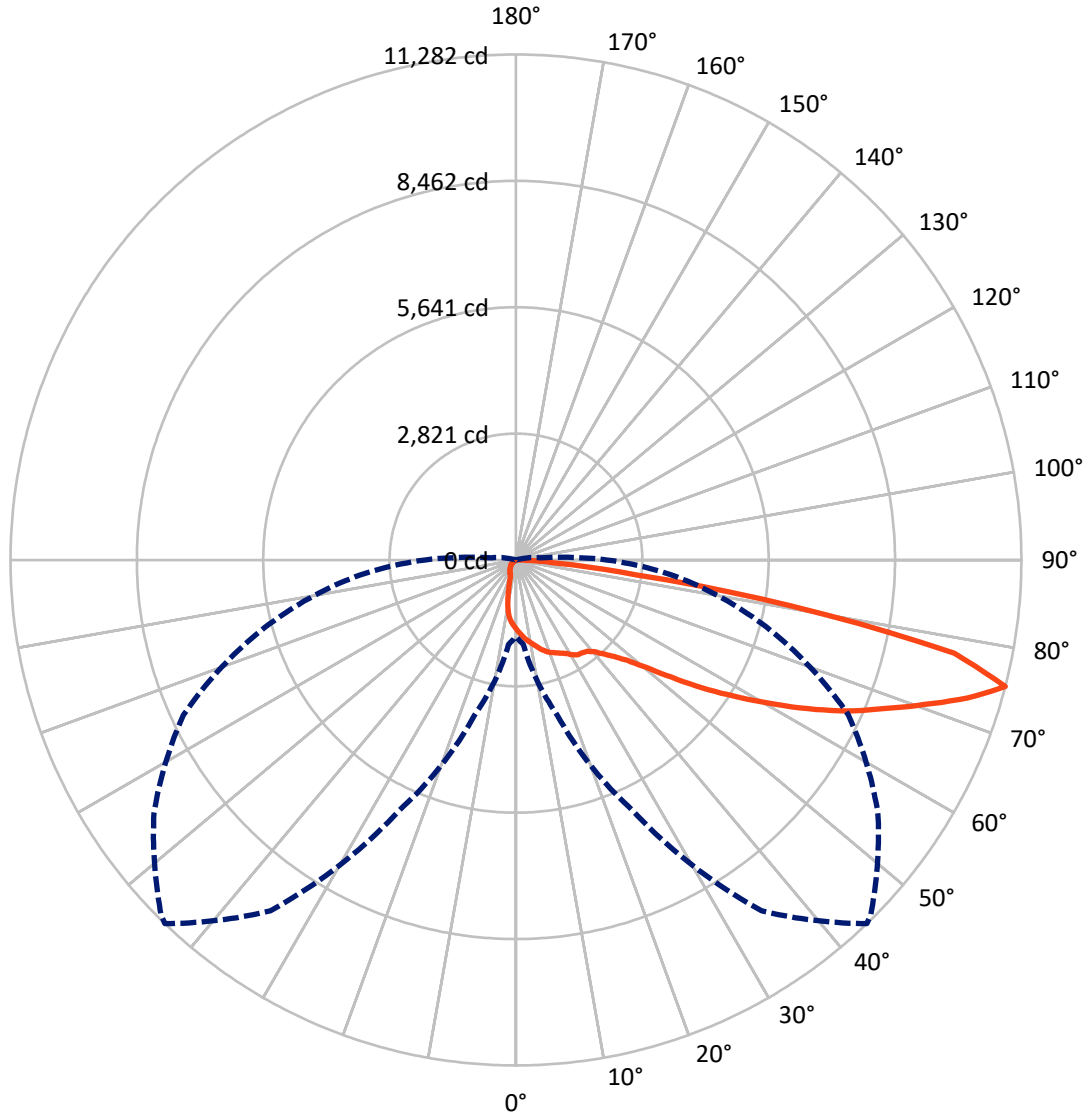
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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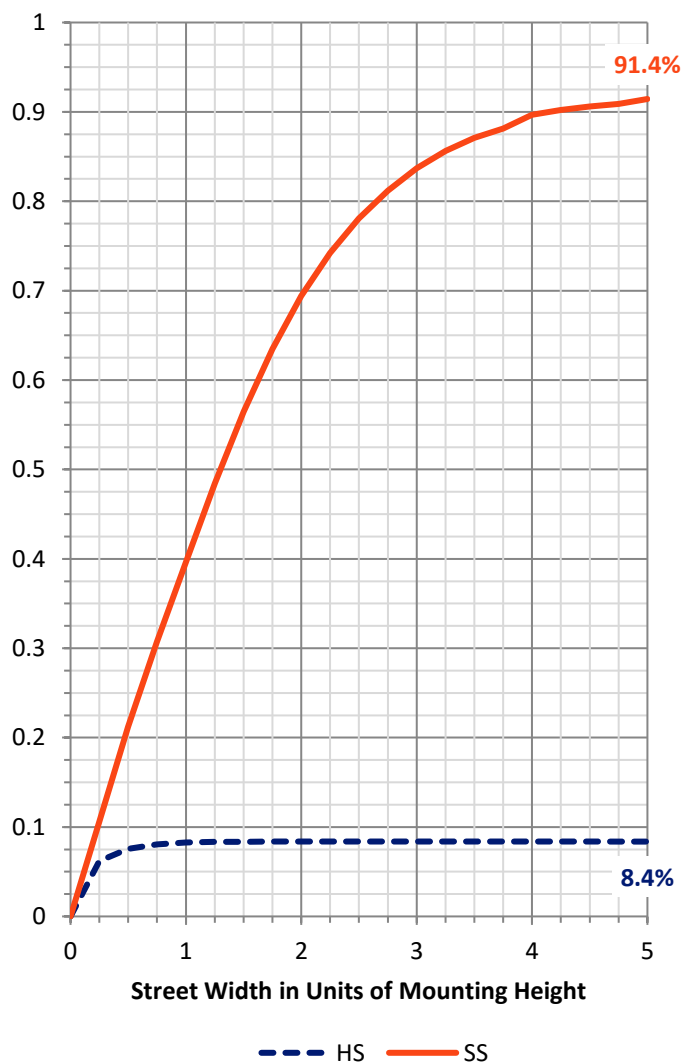
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.3	0.0	1198.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13010.7	0.0	13010.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	14209.0	0.0	14209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.0
10°-20°	408.7	2.9
20°-30°	674.5	4.7
30°-40°	978.9	6.9
40°-50°	1591.3	11.2
50°-60°	2805.3	19.7
60°-70°	4031.8	28.4
70°-80°	3228.6	22.7
80°-90°	344.0	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°	14209.0	100.0
0°-180°	14209.0	100.0

Coefficient of Utilization



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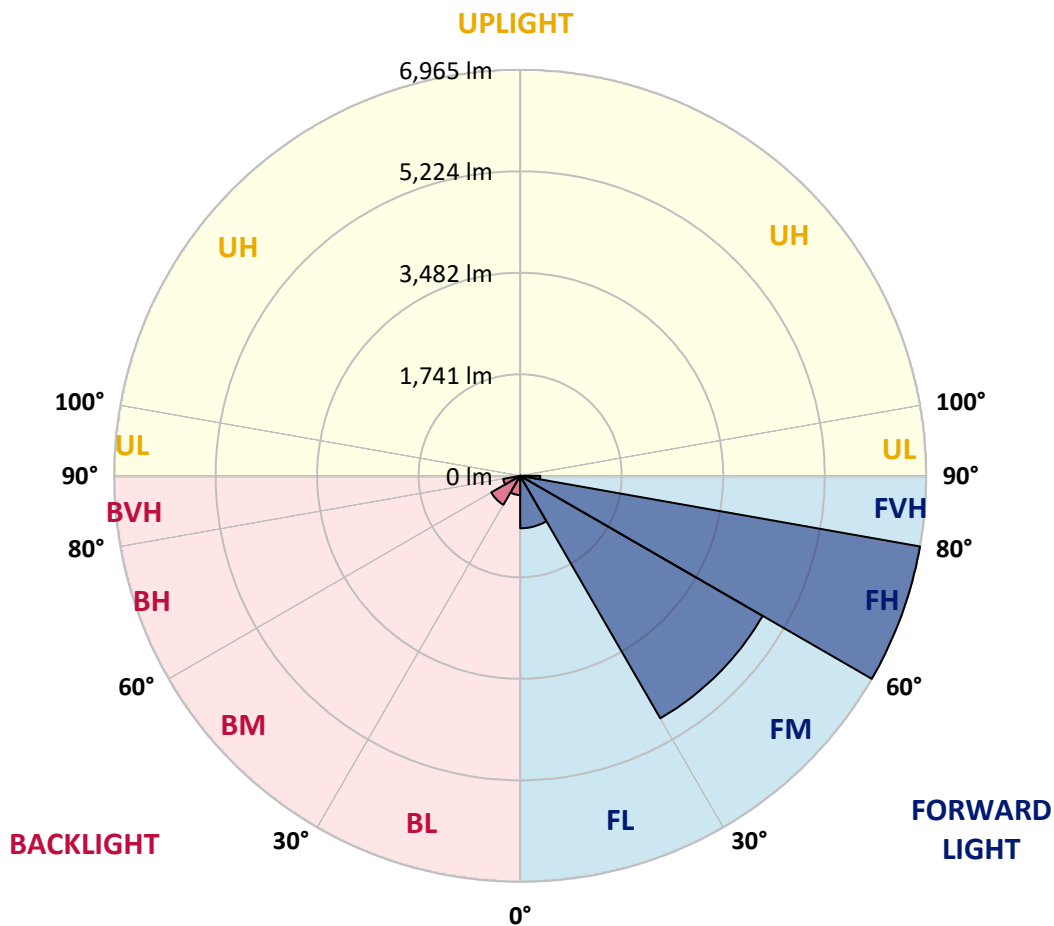
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.8	6.3			
FM (30°-60°)	4802.8	33.8			
FH (60°-80°)	6965.0	49.0			G3/7500
FVH (80°-90°)	343.1	2.4			G3/500
BL (0°-30°)	329.2	2.3	B1/500		
BM (30°-60°)	572.8	4.0	B1/1000		
BH (60°-80°)	295.4	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6
2.5°	1685.5	1682.9	1675.0	1661.9	1648.8	1635.7	1633.1	1612.1	1588.5	1570.2	1554.5
5°	1834.9	1832.3	1819.2	1790.4	1761.5	1727.5	1724.8	1675.0	1630.5	1580.7	1538.7
7.5°	1989.6	1984.4	1960.8	1916.2	1866.4	1814.0	1808.7	1735.3	1669.8	1604.3	1544.0
10°	2110.2	2104.9	2070.9	2018.4	1950.3	1884.7	1876.9	1800.9	1735.3	1651.4	1570.2
12.5°	2228.1	2217.7	2173.1	2115.4	2031.5	1968.6	1960.8	1882.1	1803.5	1717.0	1617.4
15°	2338.2	2325.1	2283.2	2209.8	2120.7	2060.4	2055.1	1971.3	1890.0	1790.4	1680.3
17.5°	2414.3	2409.0	2359.2	2278.0	2191.4	2141.6	2136.4	2049.9	1968.6	1863.8	1745.8
20°	2453.6	2453.6	2406.4	2317.3	2238.6	2204.6	2196.7	2115.4	2036.8	1937.2	1814.0
22.5°	2461.4	2469.3	2432.6	2335.6	2278.0	2249.1	2243.9	2173.1	2097.1	2005.3	1890.0
25°	2477.2	2477.2	2458.8	2354.0	2312.0	2304.2	2301.5	2238.6	2170.5	2078.7	1966.0
27.5°	2495.5	2495.5	2482.4	2380.2	2364.5	2361.8	2359.2	2330.4	2275.3	2167.9	2055.1
30°	2542.7	2545.3	2534.8	2432.6	2422.1	2451.0	2456.2	2440.5	2372.3	2238.6	2146.9
32.5°	2660.7	2637.1	2608.2	2469.3	2487.7	2524.4	2527.0	2495.5	2422.1	2314.7	2257.0
35°	2956.9	2817.9	2686.9	2500.8	2508.6	2545.3	2550.6	2548.0	2503.4	2411.6	2382.8
37.5°	3232.1	3035.5	2849.4	2574.2	2548.0	2587.3	2597.8	2642.3	2608.2	2545.3	2553.2
40°	3392.0	3316.0	3184.9	2776.0	2626.6	2686.9	2697.4	2765.5	2752.4	2726.2	2776.0
42.5°	3884.8	3890.1	3748.5	3077.5	2770.8	2867.8	2880.9	2935.9	2954.3	2967.4	3087.9
45°	4456.3	4474.6	4440.6	3620.1	3043.4	3074.8	3093.2	3166.6	3234.7	3318.6	3538.8
47.5°	5143.1	5127.4	5001.5	4283.3	3517.9	3342.2	3355.3	3496.9	3614.8	3798.3	4112.9
50°	5751.2	5790.6	5552.0	4901.9	4186.3	3764.3	3751.2	3890.1	4102.4	4359.3	4755.1
52.5°	6364.6	6307.0	5984.5	5515.3	4977.9	4338.3	4299.0	4375.0	4673.9	4977.9	5384.3
55°	6527.2	6532.4	6422.3	6186.4	5638.5	5035.6	4970.1	4964.8	5337.1	5544.2	6044.8
57.5°	6847.0	6860.1	6886.3	6933.5	6674.0	5732.9	5664.7	5591.3	5953.1	6073.7	6708.0
60°	7172.0	7187.7	7347.6	7601.9	7428.9	6485.2	6411.8	6238.8	6440.7	6603.2	7405.3
62.5°	7130.1	7240.2	7704.1	8210.1	8189.1	7310.9	7219.2	6802.4	6930.8	7072.4	8044.9
65°	6438.0	6556.0	7599.3	8377.8	8951.9	8126.2	7976.8	7384.3	7392.2	7562.6	8660.9
67.5°	5819.4	5947.8	6944.0	8307.1	9455.2	8857.5	8702.9	7968.9	7845.7	8128.8	8991.2
70°	5462.9	5591.3	6422.3	8086.9	9596.8	9667.5	9533.8	8637.3	8385.7	8645.2	8621.6
72.5°	4275.4	4477.3	5756.5	7667.4	9748.8	10535.2	10430.3	9484.0	8844.4	8105.2	6563.9
75°	1703.9	1890.0	3593.9	6170.7	9557.4	11282.3	11201.0	9864.1	8186.5	5787.9	3360.6
77.5°	513.8	550.5	998.7	3051.2	7006.9	10003.1	9976.9	8293.9	5793.2	2686.9	917.5
80°	170.4	188.7	306.7	841.5	3198.0	6249.3	6367.3	5284.6	2631.8	616.0	186.1
82.5°	70.8	78.6	154.7	338.2	1132.4	2692.1	2652.8	2367.1	917.5	382.7	68.2
85°	18.3	23.6	70.8	194.0	414.2	928.0	975.1	794.3	519.0	317.2	21.0
87.5°	0.0	0.0	34.1	78.6	186.1	280.5	293.6	241.2	293.6	238.5	10.5
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°	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6
2.5°	1541.4	1528.2	1504.7	1488.9	1468.0	1462.7	1452.2	1439.1	1436.5	1423.4	1426.0
5°	1515.1	1494.2	1452.2	1423.4	1389.3	1378.8	1360.5	1347.4	1336.9	1318.5	1321.2
7.5°	1509.9	1478.4	1420.8	1365.7	1310.7	1271.4	1216.3	1171.7	1135.0	1095.7	1103.6
10°	1528.2	1488.9	1407.7	1331.6	1232.0	1106.2	962.0	867.7	820.5	773.3	778.5
12.5°	1564.9	1517.8	1412.9	1297.6	1095.7	880.8	681.6	553.1	519.0	498.1	500.7
15°	1620.0	1562.3	1428.6	1232.0	912.2	637.0	453.5	398.4	411.6	419.4	419.4
17.5°	1677.7	1612.1	1441.7	1114.1	705.1	445.6	369.6	364.4	382.7	401.1	401.1
20°	1748.4	1664.6	1444.4	964.7	508.5	361.7	348.6	348.6	361.7	382.7	382.7
22.5°	1816.6	1722.2	1420.8	794.3	388.0	335.5	335.5	335.5	343.4	364.4	367.0
25°	1897.9	1793.0	1371.0	613.4	332.9	319.8	319.8	322.4	327.7	346.0	348.6
27.5°	1984.4	1866.4	1287.1	448.3	304.1	301.5	304.1	306.7	309.3	327.7	332.9
30°	2084.0	1947.7	1179.6	335.5	277.9	277.9	285.7	291.0	291.0	306.7	311.9
32.5°	2199.3	2055.1	1051.2	277.9	251.6	249.0	262.1	270.0	270.0	283.1	288.3
35°	2343.5	2165.2	896.5	246.4	230.7	225.4	230.7	243.8	249.0	259.5	262.1
37.5°	2534.8	2296.3	731.4	228.1	215.0	204.5	204.5	207.1	217.6	228.1	230.7
40°	2778.6	2440.5	568.8	215.0	199.2	188.7	180.9	178.3	175.6	183.5	188.7
42.5°	3085.3	2603.0	424.7	201.8	186.1	170.4	159.9	149.4	136.3	133.7	136.3
45°	3478.5	2802.2	314.6	191.4	178.3	154.7	136.3	118.0	94.4	86.5	89.1
47.5°	3942.5	3009.3	246.4	180.9	173.0	136.3	112.7	81.3	57.7	52.4	55.0
50°	4435.3	3208.5	209.7	167.8	162.5	118.0	81.3	49.8	34.1	34.1	36.7
52.5°	4854.7	3321.2	191.4	157.3	146.8	97.0	52.4	28.8	21.0	21.0	23.6
55°	5261.0	3381.5	178.3	146.8	125.8	68.2	28.8	18.3	13.1	13.1	13.1
57.5°	5680.5	3407.8	162.5	133.7	99.6	41.9	15.7	10.5	7.9	7.9	7.9
60°	6052.7	3357.9	138.9	110.1	65.5	21.0	7.9	7.9	5.2	2.6	2.6
62.5°	6364.6	3263.6	97.0	78.6	39.3	10.5	5.2	2.6	0.0	0.0	0.0
65°	6556.0	3111.5	62.9	52.4	23.6	7.9	2.6	0.0	0.0	0.0	0.0
67.5°	6500.9	2825.8	39.3	34.1	10.5	5.2	2.6	0.0	0.0	0.0	0.0
70°	5866.6	2317.3	28.8	21.0	7.9	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4228.2	1567.6	21.0	13.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2034.2	558.3	13.1	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	498.1	123.2	7.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.1	23.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	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)