

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: P399207

Luminaire Tested: **ARCH-L-PA3-110-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399207
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-PA3-110-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA 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: 12006 lumens
Efficiency: N/A
Efficacy: 106.2 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

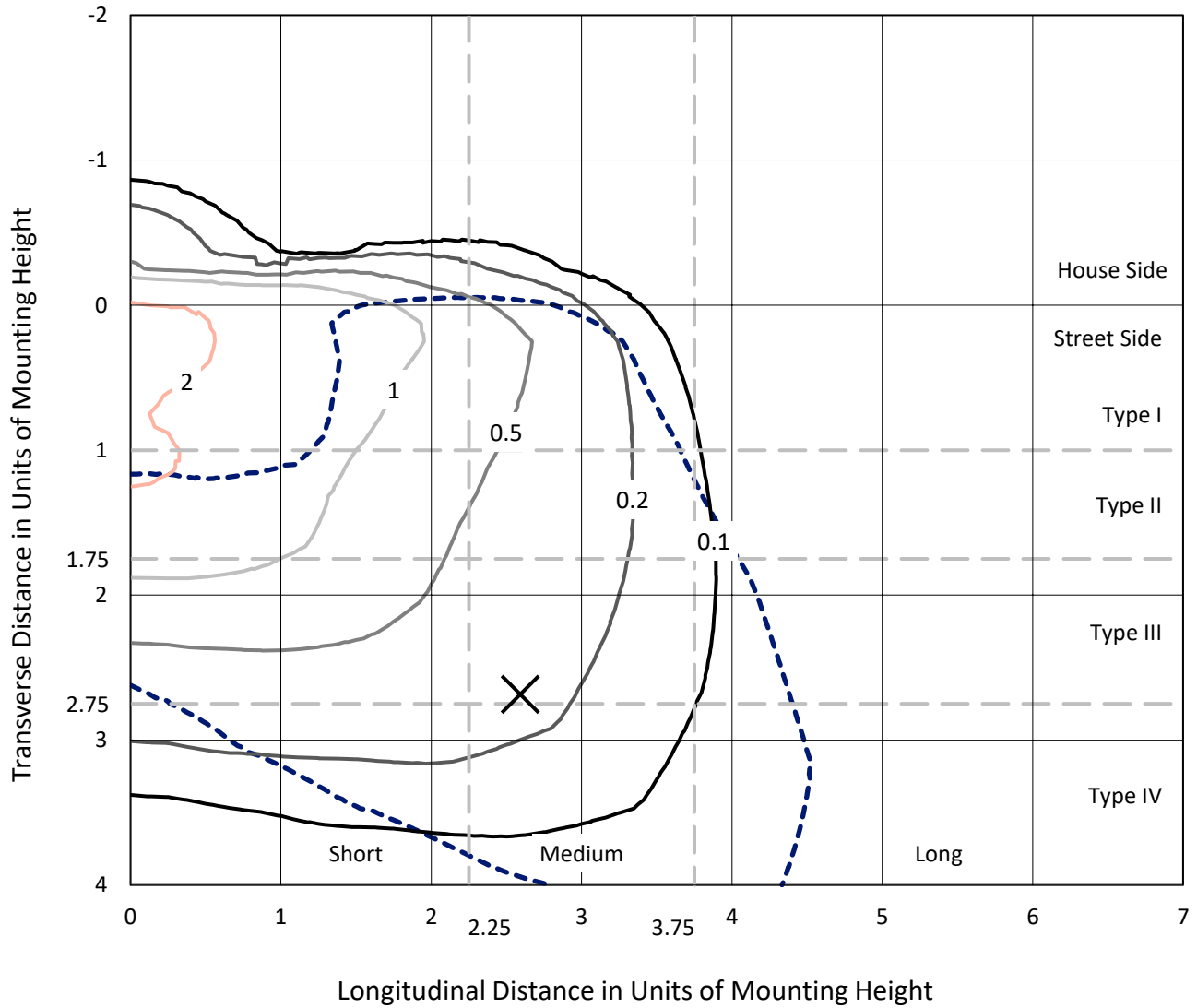
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

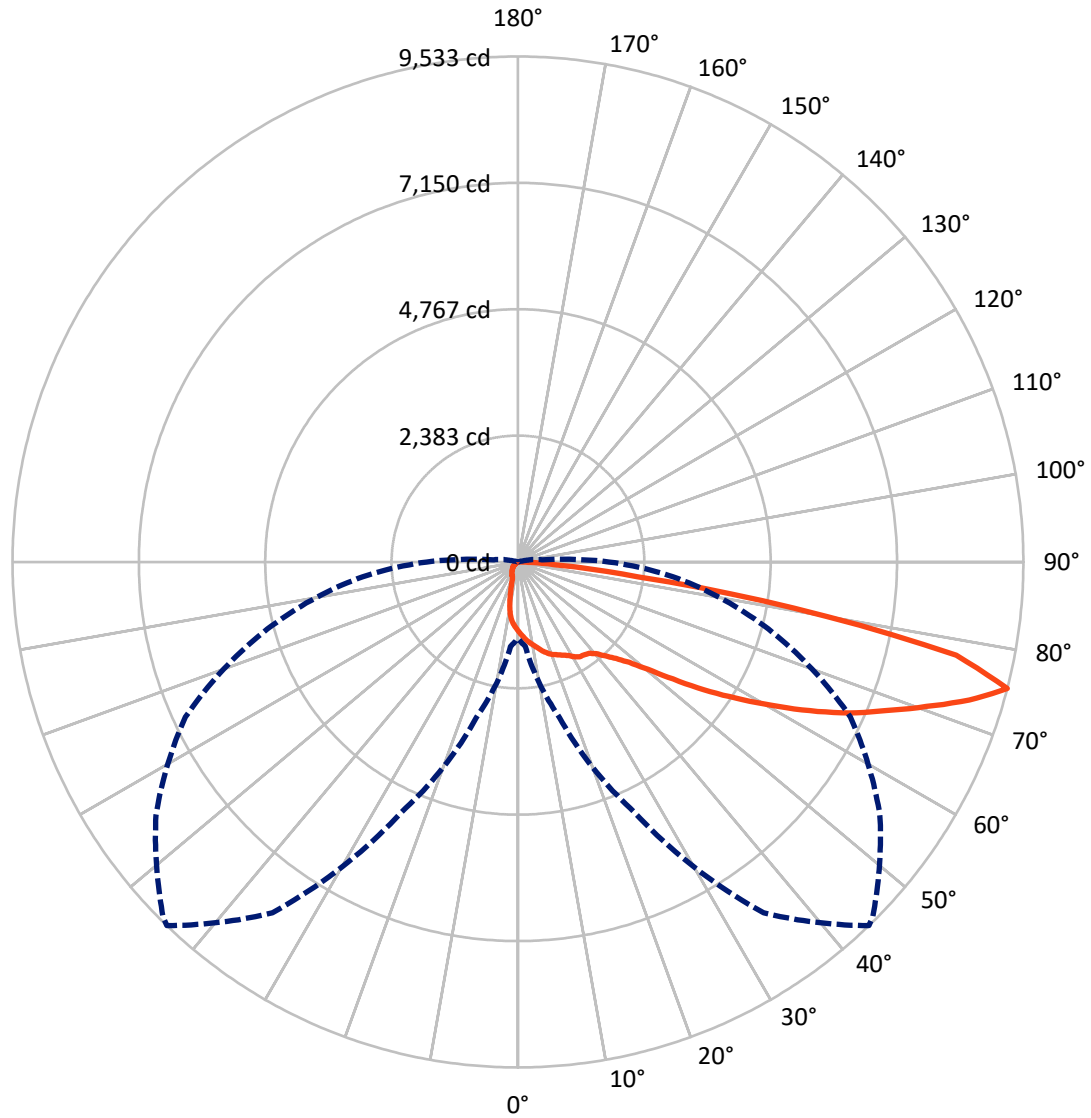
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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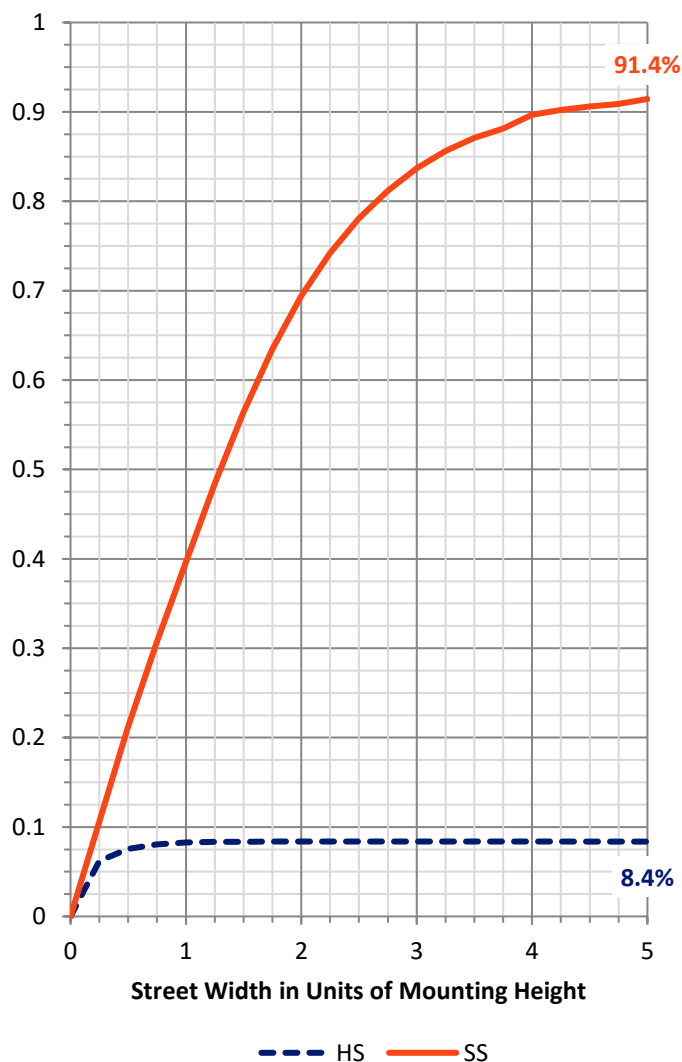
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.5	0.0	1012.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10993.5	0.0	10993.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	12006.0	0.0	12006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	1.0
10°-20°	345.3	2.9
20°-30°	569.9	4.7
30°-40°	827.2	6.9
40°-50°	1344.6	11.2
50°-60°	2370.4	19.7
60°-70°	3406.7	28.4
70°-80°	2728.0	22.7
80°-90°	290.6	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°	12006.0	100.0
0°-180°	12006.0	100.0

Coefficient of Utilization



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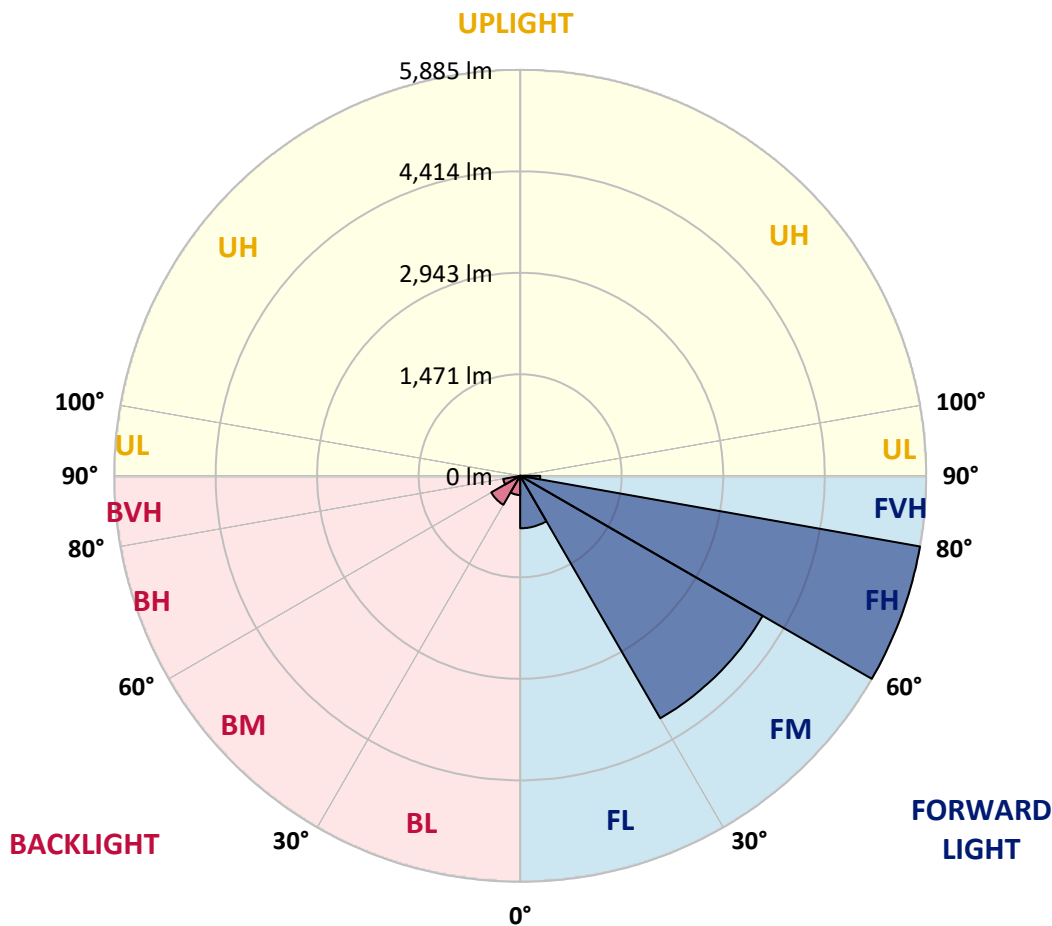
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.3	6.3			
FM (30°-60°)	4058.1	33.8			
FH (60°-80°)	5885.1	49.0			G3/7500
FVH (80°-90°)	289.9	2.4			G3/500
BL (0°-30°)	278.2	2.3	B1/500		
BM (30°-60°)	484.0	4.0	B1/1000		
BH (60°-80°)	249.6	2.1	B1/500		G1/500
BVH (80°-90°)	0.7	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°	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8
2.5°	1424.2	1422.0	1415.3	1404.3	1393.2	1382.1	1379.9	1362.2	1342.2	1326.7	1313.5
5°	1550.4	1548.2	1537.2	1512.8	1488.4	1459.6	1457.4	1415.3	1377.7	1335.6	1300.2
7.5°	1681.1	1676.7	1656.8	1619.1	1577.0	1532.7	1528.3	1466.3	1410.9	1355.5	1304.6
10°	1783.0	1778.6	1749.8	1705.5	1647.9	1592.5	1585.9	1521.7	1466.3	1395.4	1326.7
12.5°	1882.7	1873.8	1836.2	1787.4	1716.6	1663.4	1656.8	1590.3	1523.9	1450.8	1366.6
15°	1975.7	1964.6	1929.2	1867.2	1791.9	1740.9	1736.5	1665.6	1597.0	1512.8	1419.8
17.5°	2039.9	2035.5	1993.4	1924.8	1851.7	1809.6	1805.2	1732.1	1663.4	1574.8	1475.1
20°	2073.2	2073.2	2033.3	1958.0	1891.5	1862.8	1856.1	1787.4	1721.0	1636.8	1532.7
22.5°	2079.8	2086.5	2055.5	1973.5	1924.8	1900.4	1896.0	1836.2	1771.9	1694.4	1597.0
25°	2093.1	2093.1	2077.6	1989.0	1953.6	1946.9	1944.7	1891.5	1834.0	1756.4	1661.2
27.5°	2108.6	2108.6	2097.5	2011.2	1997.9	1995.7	1993.4	1969.1	1922.6	1831.7	1736.5
30°	2148.5	2150.7	2141.8	2055.5	2046.6	2071.0	2075.4	2062.1	2004.5	1891.5	1814.0
32.5°	2248.2	2228.2	2203.9	2086.5	2102.0	2133.0	2135.2	2108.6	2046.6	1955.8	1907.1
35°	2498.4	2381.0	2270.3	2113.0	2119.7	2150.7	2155.1	2152.9	2115.3	2037.7	2013.4
37.5°	2731.0	2564.9	2407.6	2175.1	2152.9	2186.1	2195.0	2232.6	2203.9	2150.7	2157.3
40°	2866.1	2801.9	2691.1	2345.6	2219.4	2270.3	2279.2	2336.7	2325.7	2303.5	2345.6
42.5°	3282.5	3287.0	3167.3	2600.3	2341.2	2423.1	2434.2	2480.7	2496.2	2507.3	2609.2
45°	3765.4	3780.9	3752.1	3058.8	2571.5	2598.1	2613.6	2675.6	2733.2	2804.1	2990.2
47.5°	4345.7	4332.4	4226.1	3619.2	2972.4	2824.0	2835.1	2954.7	3054.4	3209.4	3475.2
50°	4859.6	4892.8	4691.2	4141.9	3537.2	3180.6	3169.6	3287.0	3466.4	3683.4	4017.9
52.5°	5377.8	5329.1	5056.7	4660.2	4206.1	3665.7	3632.5	3696.7	3949.2	4206.1	4549.5
55°	5515.2	5519.6	5426.6	5227.2	4764.3	4254.9	4199.5	4195.1	4509.6	4684.6	5107.6
57.5°	5785.4	5796.5	5818.6	5858.5	5639.2	4844.0	4786.5	4724.4	5030.1	5132.0	5668.0
60°	6060.0	6073.3	6208.4	6423.3	6277.1	5479.7	5417.7	5271.5	5442.1	5579.4	6257.2
62.5°	6024.6	6117.6	6509.7	6937.2	6919.4	6177.4	6099.9	5747.7	5856.3	5975.9	6797.6
65°	5439.9	5539.5	6421.1	7078.9	7564.0	6866.3	6740.0	6239.5	6246.1	6390.1	7318.1
67.5°	4917.1	5025.7	5867.3	7019.1	7989.2	7484.2	7353.6	6733.4	6629.3	6868.5	7597.2
70°	4615.9	4724.4	5426.6	6833.1	8108.9	8168.7	8055.7	7298.2	7085.6	7304.8	7284.9
72.5°	3612.5	3783.1	4864.0	6478.7	8237.3	8901.8	8813.2	8013.6	7473.2	6848.6	5546.2
75°	1439.7	1597.0	3036.7	5213.9	8075.6	9533.1	9464.4	8334.8	6917.2	4890.6	2839.5
77.5°	434.1	465.1	843.9	2578.2	5920.5	8452.2	8430.0	7008.0	4895.0	2270.3	775.2
80°	144.0	159.5	259.1	711.0	2702.2	5280.4	5380.1	4465.3	2223.8	520.5	157.3
82.5°	59.8	66.4	130.7	285.7	956.8	2274.7	2241.5	2000.1	775.2	323.4	57.6
85°	15.5	19.9	59.8	163.9	350.0	784.1	824.0	671.1	438.6	268.0	17.7
87.5°	0.0	0.0	28.8	66.4	157.3	237.0	248.1	203.8	248.1	201.6	8.9
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°	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8
2.5°	1302.4	1291.3	1271.4	1258.1	1240.4	1235.9	1227.1	1216.0	1213.8	1202.7	1204.9
5°	1280.2	1262.5	1227.1	1202.7	1173.9	1165.1	1149.5	1138.5	1129.6	1114.1	1116.3
7.5°	1275.8	1249.2	1200.5	1154.0	1107.5	1074.2	1027.7	990.1	959.1	925.8	932.5
10°	1291.3	1258.1	1189.4	1125.2	1041.0	934.7	812.9	733.1	693.3	653.4	657.8
12.5°	1322.3	1282.4	1193.8	1096.4	925.8	744.2	575.9	467.3	438.6	420.8	423.1
15°	1368.8	1320.1	1207.1	1041.0	770.8	538.2	383.2	336.7	347.7	354.4	354.4
17.5°	1417.6	1362.2	1218.2	941.3	595.8	376.5	312.3	307.9	323.4	338.9	338.9
20°	1477.4	1406.5	1220.4	815.1	429.7	305.7	294.6	294.6	305.7	323.4	323.4
22.5°	1534.9	1455.2	1200.5	671.1	327.8	283.5	283.5	283.5	290.2	307.9	310.1
25°	1603.6	1515.0	1158.4	518.3	281.3	270.2	270.2	272.4	276.9	292.4	294.6
27.5°	1676.7	1577.0	1087.5	378.8	256.9	254.7	256.9	259.1	261.4	276.9	281.3
30°	1760.9	1645.7	996.7	283.5	234.8	234.8	241.4	245.9	245.9	259.1	263.6
32.5°	1858.3	1736.5	888.2	234.8	212.6	210.4	221.5	228.1	228.1	239.2	243.6
35°	1980.1	1829.5	757.5	208.2	194.9	190.5	194.9	206.0	210.4	219.3	221.5
37.5°	2141.8	1940.3	618.0	192.7	181.6	172.8	172.8	175.0	183.8	192.7	194.9
40°	2347.8	2062.1	480.6	181.6	168.3	159.5	152.8	150.6	148.4	155.0	159.5
42.5°	2607.0	2199.4	358.8	170.5	157.3	144.0	135.1	126.3	115.2	113.0	115.2
45°	2939.2	2367.8	265.8	161.7	150.6	130.7	115.2	99.7	79.7	73.1	75.3
47.5°	3331.3	2542.7	208.2	152.8	146.2	115.2	95.2	68.7	48.7	44.3	46.5
50°	3747.7	2711.1	177.2	141.8	137.3	99.7	68.7	42.1	28.8	28.8	31.0
52.5°	4102.0	2806.3	161.7	132.9	124.0	82.0	44.3	24.4	17.7	17.7	19.9
55°	4445.4	2857.3	150.6	124.0	106.3	57.6	24.4	15.5	11.1	11.1	11.1
57.5°	4799.7	2879.4	137.3	113.0	84.2	35.4	13.3	8.9	6.6	6.6	6.6
60°	5114.3	2837.3	117.4	93.0	55.4	17.7	6.6	6.6	4.4	2.2	2.2
62.5°	5377.8	2757.6	82.0	66.4	33.2	8.9	4.4	2.2	0.0	0.0	0.0
65°	5539.5	2629.1	53.2	44.3	19.9	6.6	2.2	0.0	0.0	0.0	0.0
67.5°	5493.0	2387.7	33.2	28.8	8.9	4.4	2.2	0.0	0.0	0.0	0.0
70°	4957.0	1958.0	24.4	17.7	6.6	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	3572.7	1324.5	17.7	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	1718.8	471.8	11.1	8.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	420.8	104.1	6.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.0	19.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.0	8.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	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)