

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: P399387

Luminaire Tested: **ARCH-L-PA3-130-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399387
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-PA3-130-827-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 575mA 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: 11195 lumens
Efficiency: N/A
Efficacy: 84.2 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

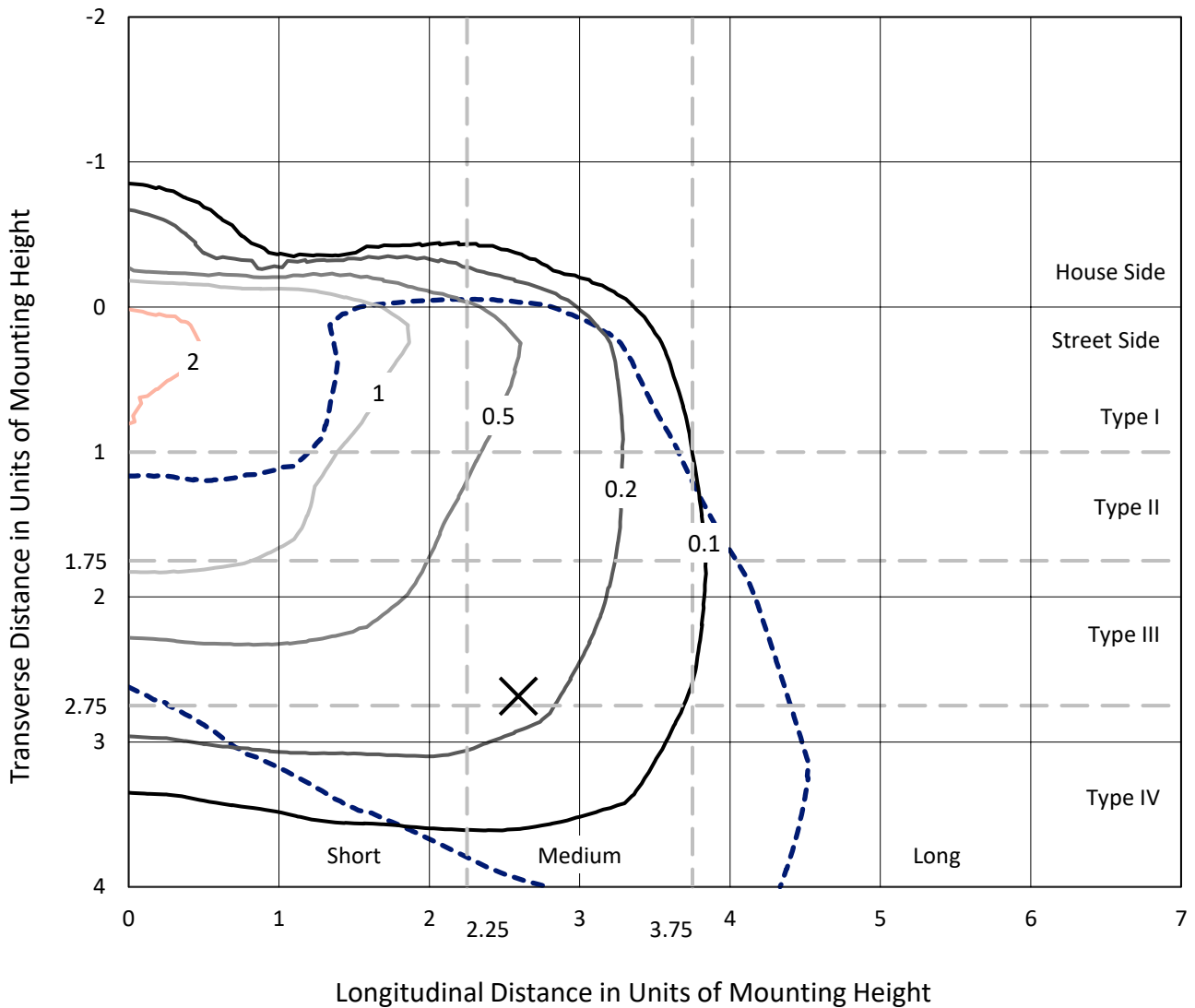
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

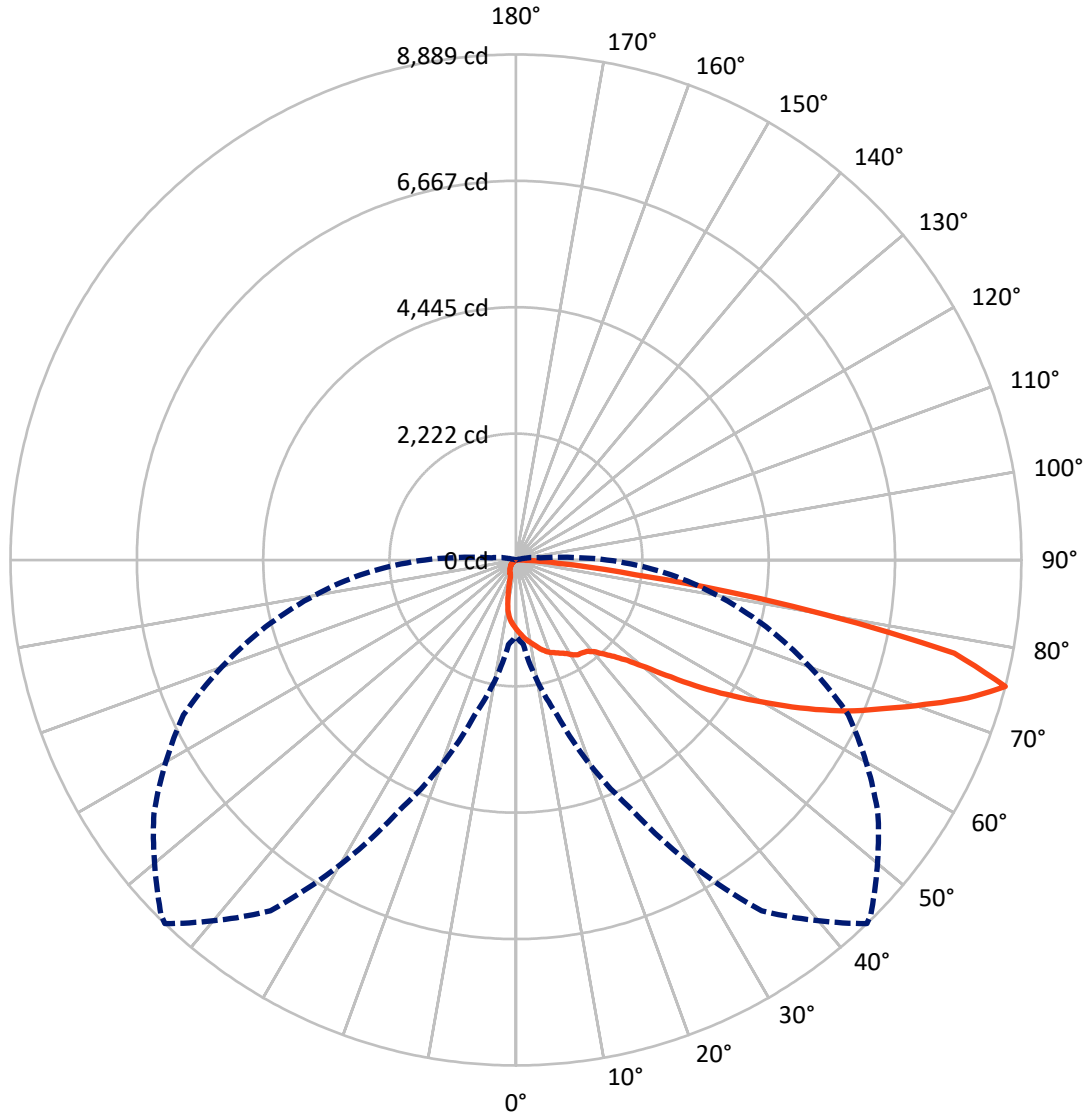
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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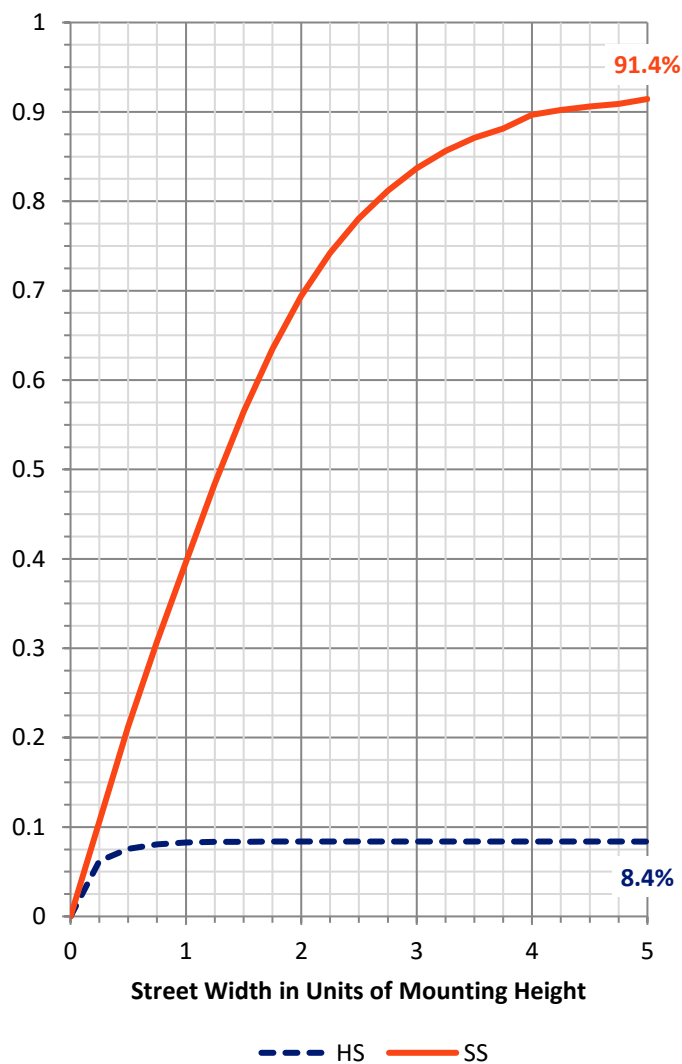
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.1	0.0	944.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10250.9	0.0	10250.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	11195.0	0.0	11195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.0
10°-20°	322.0	2.9
20°-30°	531.4	4.7
30°-40°	771.3	6.9
40°-50°	1253.8	11.2
50°-60°	2210.2	19.7
60°-70°	3176.6	28.4
70°-80°	2543.7	22.7
80°-90°	271.0	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°	11195.0	100.0
0°-180°	11195.0	100.0

Coefficient of Utilization



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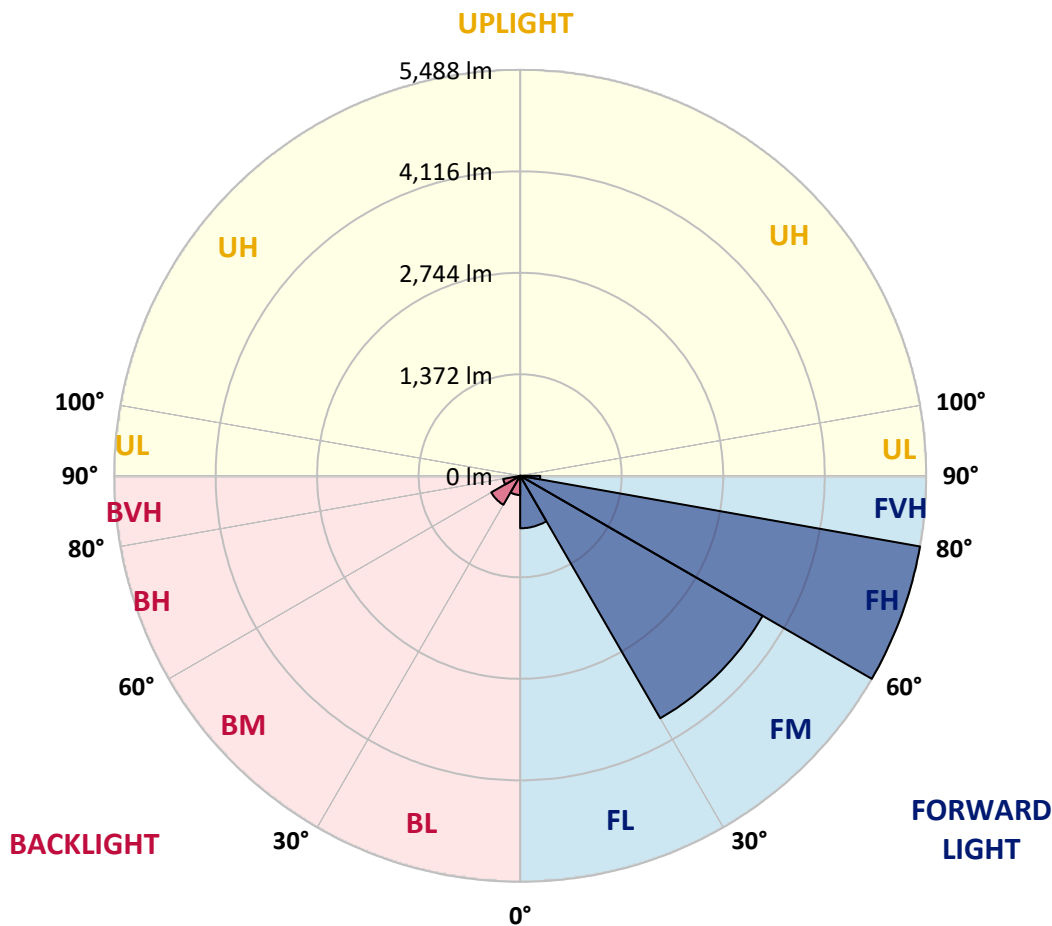
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.0	6.3			
FM (30°-60°)	3784.0	33.8			
FH (60°-80°)	5487.6	49.0			G3/7500
FVH (80°-90°)	270.3	2.4			G3/500
BL (0°-30°)	259.4	2.3	B1/500		
BM (30°-60°)	451.3	4.0	B1/1000		
BH (60°-80°)	232.7	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°	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5
2.5°	1328.0	1325.9	1319.7	1309.4	1299.1	1288.8	1286.7	1270.2	1251.6	1237.1	1224.7
5°	1445.7	1443.7	1433.3	1410.6	1387.9	1361.0	1359.0	1319.7	1284.6	1245.4	1212.3
7.5°	1567.6	1563.4	1544.9	1509.7	1470.5	1429.2	1425.1	1367.2	1315.6	1264.0	1216.5
10°	1662.6	1658.4	1631.6	1590.3	1536.6	1485.0	1478.8	1418.9	1367.2	1301.1	1237.1
12.5°	1755.5	1747.3	1712.1	1666.7	1600.6	1551.0	1544.9	1482.9	1420.9	1352.8	1274.3
15°	1842.3	1831.9	1798.9	1741.1	1670.8	1623.3	1619.2	1553.1	1489.1	1410.6	1323.9
17.5°	1902.2	1898.0	1858.8	1794.8	1726.6	1687.4	1683.2	1615.1	1551.0	1468.4	1375.5
20°	1933.1	1933.1	1896.0	1825.7	1763.8	1736.9	1730.7	1666.7	1604.7	1526.3	1429.2
22.5°	1939.3	1945.5	1916.6	1840.2	1794.8	1772.0	1767.9	1712.1	1652.2	1580.0	1489.1
25°	1951.7	1951.7	1937.3	1854.6	1821.6	1815.4	1813.3	1763.8	1710.1	1637.8	1549.0
27.5°	1966.2	1966.2	1955.8	1875.3	1862.9	1860.8	1858.8	1836.1	1792.7	1708.0	1619.2
30°	2003.4	2005.4	1997.2	1916.6	1908.3	1931.1	1935.2	1922.8	1869.1	1763.8	1691.5
32.5°	2096.3	2077.7	2055.0	1945.5	1960.0	1988.9	1991.0	1966.2	1908.3	1823.7	1778.2
35°	2329.7	2220.2	2116.9	1970.3	1976.5	2005.4	2009.5	2007.5	1972.4	1900.1	1877.4
37.5°	2546.5	2391.6	2245.0	2028.1	2007.5	2038.5	2046.7	2081.8	2055.0	2005.4	2011.6
40°	2672.5	2612.6	2509.4	2187.2	2069.4	2116.9	2125.2	2178.9	2168.6	2147.9	2187.2
42.5°	3060.8	3064.9	2953.4	2424.7	2183.0	2259.4	2269.8	2313.1	2327.6	2337.9	2432.9
45°	3511.0	3525.5	3498.6	2852.2	2397.8	2422.6	2437.1	2494.9	2548.6	2614.7	2788.2
47.5°	4052.1	4039.7	3940.6	3374.7	2771.6	2633.3	2643.6	2755.1	2848.1	2992.6	3240.5
50°	4531.3	4562.3	4374.3	3862.1	3298.3	2965.8	2955.5	3064.9	3232.2	3434.6	3746.5
52.5°	5014.6	4969.1	4715.1	4345.4	3922.0	3418.1	3387.1	3447.0	3682.4	3922.0	4242.1
55°	5142.6	5146.8	5060.0	4874.1	4442.5	3967.5	3915.8	3911.7	4205.0	4368.1	4762.6
57.5°	5394.6	5404.9	5425.6	5462.7	5258.3	4516.8	4463.1	4405.3	4690.3	4785.3	5285.1
60°	5650.7	5663.1	5789.1	5989.4	5853.1	5109.6	5051.7	4915.4	5074.5	5202.5	5834.5
62.5°	5617.6	5704.4	6069.9	6468.6	6452.0	5760.2	5687.9	5359.5	5460.7	5572.2	6338.4
65°	5072.4	5165.3	5987.3	6600.7	7053.0	6402.5	6284.7	5818.0	5824.2	5958.4	6823.8
67.5°	4585.0	4686.2	5471.0	6545.0	7449.6	6978.7	6856.8	6278.5	6181.5	6404.5	7084.0
70°	4304.1	4405.3	5060.0	6371.5	7561.1	7616.9	7511.5	6805.2	6606.9	6811.4	6792.8
72.5°	3368.5	3527.6	4535.4	6041.0	7680.9	8300.5	8217.9	7472.3	6968.4	6385.9	5171.5
75°	1342.5	1489.1	2831.5	4861.7	7530.1	8889.1	8825.1	7771.8	6450.0	4560.2	2647.7
77.5°	404.8	433.7	786.9	2404.0	5520.6	7881.2	7860.6	6534.6	4564.3	2116.9	722.9
80°	134.2	148.7	241.6	663.0	2519.7	4923.7	5016.6	4163.7	2073.6	485.3	146.6
82.5°	55.8	62.0	121.9	266.4	892.2	2121.1	2090.1	1865.0	722.9	301.5	53.7
85°	14.5	18.6	55.8	152.8	326.3	731.1	768.3	625.8	408.9	249.9	16.5
87.5°	0.0	0.0	26.8	62.0	146.6	221.0	231.3	190.0	231.3	187.9	8.3
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°	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5	1218.5
2.5°	1214.4	1204.1	1185.5	1173.1	1156.6	1152.4	1144.2	1133.9	1131.8	1121.5	1123.5
5°	1193.7	1177.2	1144.2	1121.5	1094.6	1086.4	1071.9	1061.6	1053.3	1038.9	1040.9
7.5°	1189.6	1164.8	1119.4	1076.0	1032.7	1001.7	958.3	923.2	894.3	863.3	869.5
10°	1204.1	1173.1	1109.1	1049.2	970.7	871.6	758.0	683.6	646.4	609.3	613.4
12.5°	1233.0	1195.8	1113.2	1022.3	863.3	693.9	537.0	435.8	408.9	392.4	394.5
15°	1276.4	1230.9	1125.6	970.7	718.7	501.9	357.3	313.9	324.3	330.4	330.4
17.5°	1321.8	1270.2	1135.9	877.8	555.6	351.1	291.2	287.1	301.5	316.0	316.0
20°	1377.6	1311.5	1138.0	760.0	400.7	285.0	274.7	274.7	285.0	301.5	301.5
22.5°	1431.3	1356.9	1119.4	625.8	305.7	264.4	264.4	264.4	270.6	287.1	289.1
25°	1495.3	1412.7	1080.2	483.3	262.3	252.0	252.0	254.0	258.2	272.6	274.7
27.5°	1563.4	1470.5	1014.1	353.2	239.6	237.5	239.6	241.6	243.7	258.2	262.3
30°	1641.9	1534.5	929.4	264.4	218.9	218.9	225.1	229.2	229.2	241.6	245.8
32.5°	1732.8	1619.2	828.2	218.9	198.3	196.2	206.5	212.7	212.7	223.1	227.2
35°	1846.4	1705.9	706.3	194.1	181.7	177.6	181.7	192.1	196.2	204.5	206.5
37.5°	1997.2	1809.2	576.2	179.7	169.4	161.1	161.1	163.2	171.4	179.7	181.7
40°	2189.2	1922.8	448.2	169.4	157.0	148.7	142.5	140.4	138.4	144.6	148.7
42.5°	2430.9	2050.9	334.6	159.0	146.6	134.2	126.0	117.7	107.4	105.3	107.4
45°	2740.7	2207.8	247.8	150.8	140.4	121.9	107.4	92.9	74.4	68.2	70.2
47.5°	3106.2	2371.0	194.1	142.5	136.3	107.4	88.8	64.0	45.4	41.3	43.4
50°	3494.5	2527.9	165.2	132.2	128.0	92.9	64.0	39.2	26.8	26.8	28.9
52.5°	3825.0	2616.7	150.8	123.9	115.7	76.4	41.3	22.7	16.5	16.5	18.6
55°	4145.1	2664.3	140.4	115.7	99.1	53.7	22.7	14.5	10.3	10.3	10.3
57.5°	4475.5	2684.9	128.0	105.3	78.5	33.0	12.4	8.3	6.2	6.2	6.2
60°	4768.8	2645.7	109.5	86.7	51.6	16.5	6.2	6.2	4.1	2.1	2.1
62.5°	5014.6	2571.3	76.4	62.0	31.0	8.3	4.1	2.1	0.0	0.0	0.0
65°	5165.3	2451.5	49.6	41.3	18.6	6.2	2.1	0.0	0.0	0.0	0.0
67.5°	5122.0	2226.4	31.0	26.8	8.3	4.1	2.1	0.0	0.0	0.0	0.0
70°	4622.2	1825.7	22.7	16.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	3331.3	1235.1	16.5	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1602.7	439.9	10.3	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	392.4	97.1	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.7	18.6	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.1	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)