

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: P399396

Luminaire Tested: **ARCH-L-PA3-130-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399396
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-PA3-130-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 12102 lumens
Efficiency: N/A
Efficacy: 91.0 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

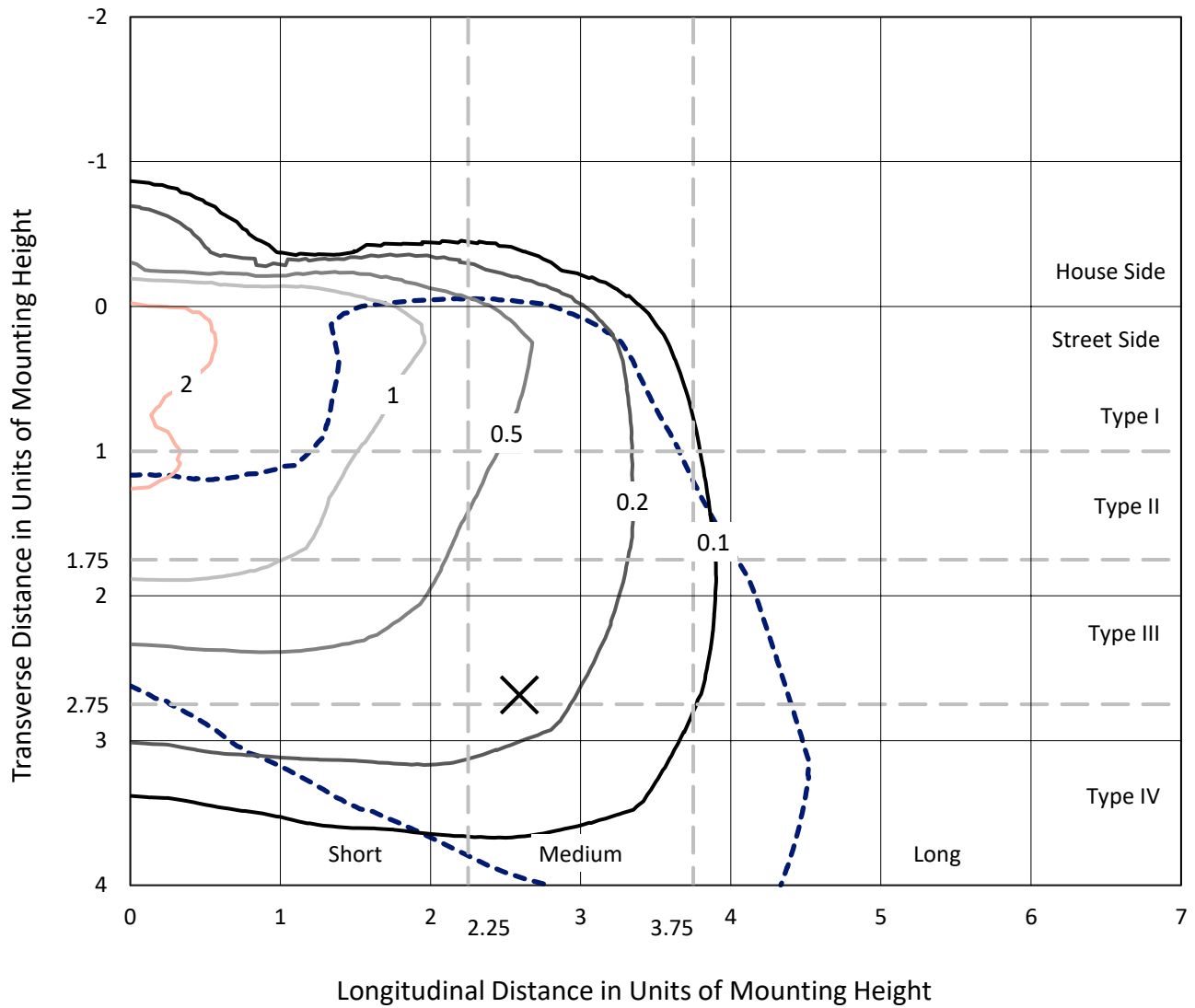
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

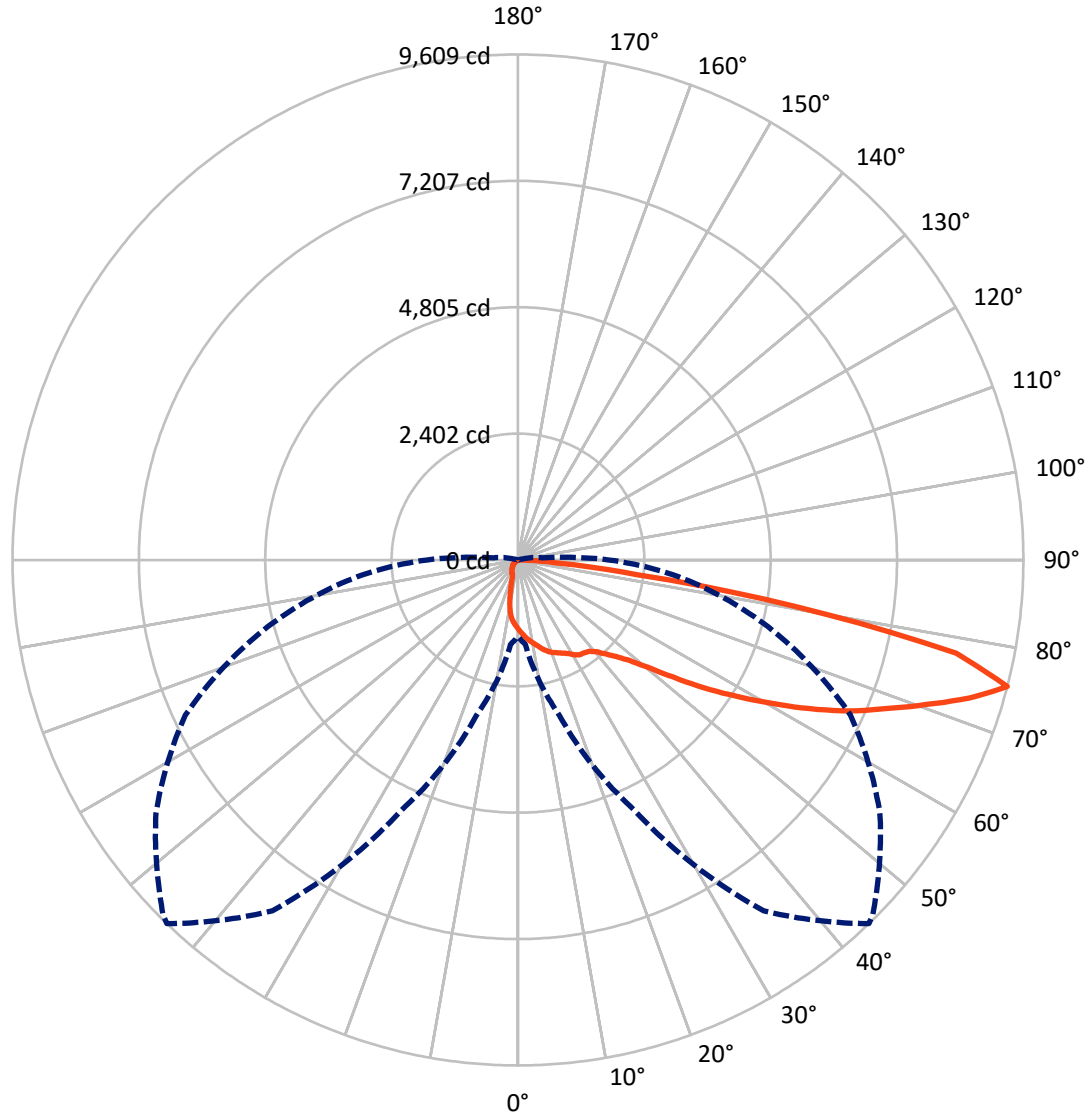
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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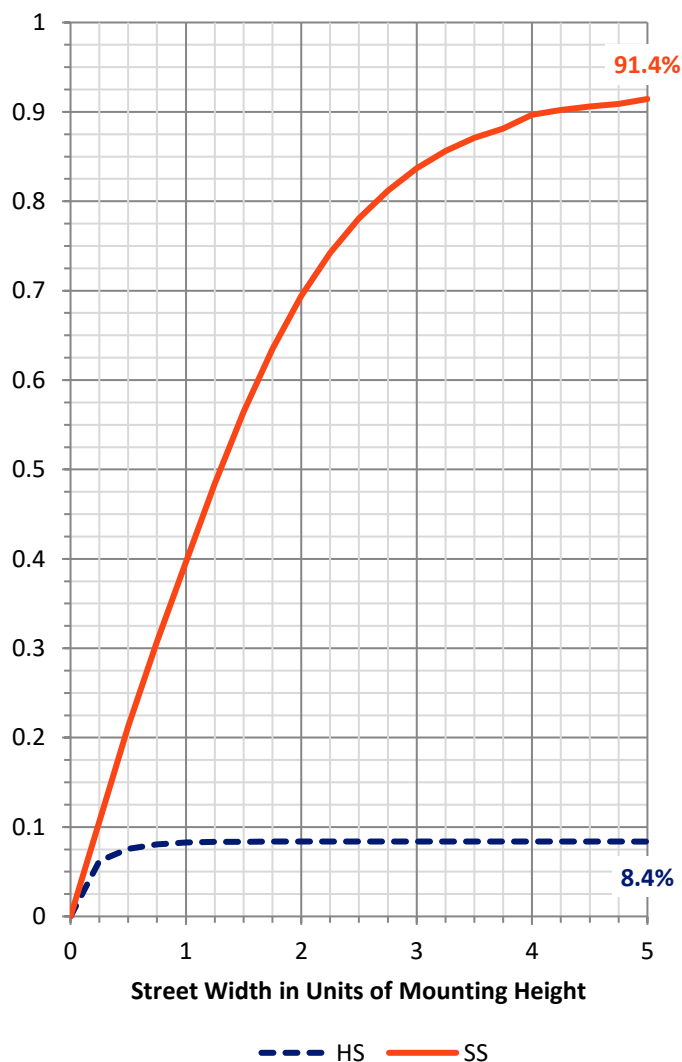
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.6	0.0	1020.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11081.4	0.0	11081.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	12102.0	0.0	12102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.0
10°-20°	348.1	2.9
20°-30°	574.5	4.7
30°-40°	833.8	6.9
40°-50°	1355.4	11.2
50°-60°	2389.3	19.7
60°-70°	3434.0	28.4
70°-80°	2749.8	22.7
80°-90°	293.0	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°	12102.0	100.0
0°-180°	12102.0	100.0

Coefficient of Utilization



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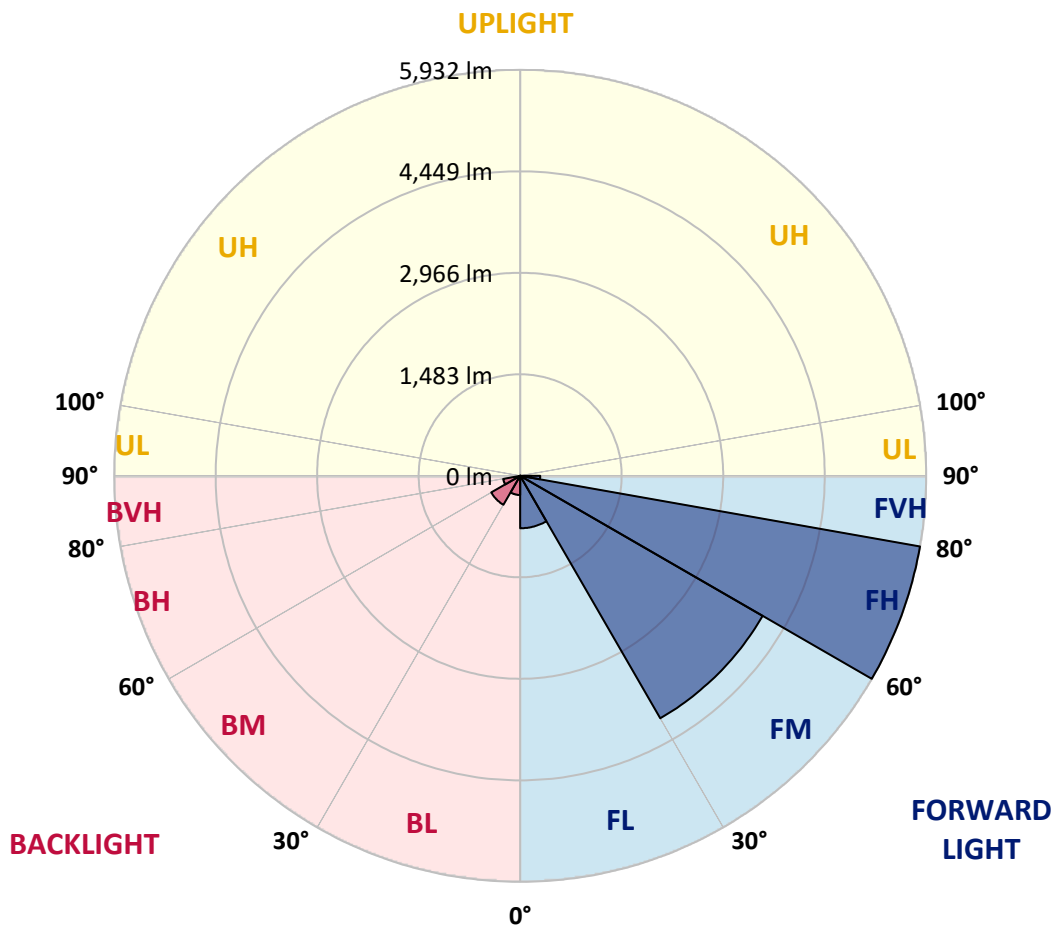
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.4	6.3			
FM (30°-60°)	4090.6	33.8			
FH (60°-80°)	5932.2	49.0			G3/7500
FVH (80°-90°)	292.2	2.4			G3/500
BL (0°-30°)	280.4	2.3	B1/500		
BM (30°-60°)	487.9	4.0	B1/1000		
BH (60°-80°)	251.6	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°	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3
2.5°	1435.6	1433.4	1426.7	1415.5	1404.3	1393.2	1390.9	1373.1	1353.0	1337.4	1324.0
5°	1562.8	1560.6	1549.5	1524.9	1500.3	1471.3	1469.1	1426.7	1388.7	1346.3	1310.6
7.5°	1694.6	1690.1	1670.0	1632.1	1589.6	1545.0	1540.5	1478.0	1422.2	1366.4	1315.0
10°	1797.3	1792.8	1763.8	1719.1	1661.1	1605.3	1598.6	1533.8	1478.0	1406.6	1337.4
12.5°	1897.7	1888.8	1850.9	1801.7	1730.3	1676.7	1670.0	1603.0	1536.1	1462.4	1377.5
15°	1991.5	1980.4	1944.6	1882.1	1806.2	1754.9	1750.4	1678.9	1609.7	1524.9	1431.1
17.5°	2056.3	2051.8	2009.4	1940.2	1866.5	1824.1	1819.6	1745.9	1676.7	1587.4	1486.9
20°	2089.7	2089.7	2049.6	1973.7	1906.7	1877.6	1871.0	1801.7	1734.8	1649.9	1545.0
22.5°	2096.4	2103.1	2071.9	1989.3	1940.2	1915.6	1911.1	1850.9	1786.1	1708.0	1609.7
25°	2109.8	2109.8	2094.2	2004.9	1969.2	1962.5	1960.3	1906.7	1848.6	1770.5	1674.5
27.5°	2125.5	2125.5	2114.3	2027.2	2013.8	2011.6	2009.4	1984.8	1937.9	1846.4	1750.4
30°	2165.7	2167.9	2159.0	2071.9	2063.0	2087.5	2092.0	2078.6	2020.5	1906.7	1828.5
32.5°	2266.1	2246.0	2221.5	2103.1	2118.8	2150.0	2152.3	2125.5	2063.0	1971.4	1922.3
35°	2518.4	2400.1	2288.5	2129.9	2136.6	2167.9	2172.4	2170.1	2132.2	2054.0	2029.5
37.5°	2752.8	2585.4	2426.9	2192.5	2170.1	2203.6	2212.5	2250.5	2221.5	2167.9	2174.6
40°	2889.0	2824.3	2712.7	2364.4	2237.1	2288.5	2297.4	2355.4	2344.3	2321.9	2364.4
42.5°	3308.8	3313.2	3192.7	2621.1	2359.9	2442.5	2453.7	2500.6	2516.2	2527.3	2630.0
45°	3795.5	3811.1	3782.1	3083.3	2592.1	2618.9	2634.5	2697.0	2755.1	2826.5	3014.1
47.5°	4380.4	4367.0	4259.9	3648.1	2996.2	2846.6	2857.8	2978.3	3078.8	3235.1	3503.0
50°	4898.4	4931.9	4728.7	4175.0	3565.5	3206.1	3194.9	3313.2	3494.1	3712.9	4050.0
52.5°	5420.8	5371.7	5097.1	4697.5	4239.8	3695.0	3661.5	3726.3	3980.8	4239.8	4585.8
55°	5559.3	5563.7	5470.0	5269.0	4802.4	4288.9	4233.1	4228.6	4545.7	4722.0	5148.5
57.5°	5831.7	5842.8	5865.1	5905.3	5684.3	4882.8	4824.7	4762.2	5070.3	5173.0	5713.3
60°	6108.5	6121.9	6258.1	6474.7	6327.3	5523.5	5461.0	5313.7	5485.6	5624.0	6307.2
62.5°	6072.8	6166.5	6561.7	6992.6	6974.8	6226.8	6148.7	5793.7	5903.1	6023.7	6852.0
65°	5483.4	5583.8	6472.4	7135.5	7624.5	6921.2	6793.9	6289.3	6296.0	6441.2	7376.6
67.5°	4956.5	5065.9	5914.3	7075.2	8053.1	7544.1	7412.4	6787.2	6682.3	6923.4	7658.0
70°	4652.8	4762.2	5470.0	6887.7	8173.7	8234.0	8120.1	7356.5	7142.2	7363.2	7343.1
72.5°	3641.4	3813.3	4902.9	6530.5	8303.2	8973.0	8883.7	8077.7	7532.9	6903.3	5590.5
75°	1451.2	1609.7	3060.9	5255.6	8140.2	9609.3	9540.1	8401.4	6972.5	4929.7	2862.2
77.5°	437.6	468.9	850.6	2598.8	5967.8	8519.7	8497.4	7064.1	4934.1	2288.5	781.4
80°	145.1	160.7	261.2	716.7	2723.8	5322.6	5423.1	4501.0	2241.6	524.7	158.5
82.5°	60.3	67.0	131.7	288.0	964.5	2292.9	2259.4	2016.1	781.4	326.0	58.0
85°	15.6	20.1	60.3	165.2	352.8	790.4	830.5	676.5	442.1	270.1	17.9
87.5°	0.0	0.0	29.0	67.0	158.5	238.9	250.1	205.4	250.1	203.2	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°	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3
2.5°	1312.8	1301.6	1281.5	1268.1	1250.3	1245.8	1236.9	1225.7	1223.5	1212.3	1214.6
5°	1290.5	1272.6	1236.9	1212.3	1183.3	1174.4	1158.7	1147.6	1138.6	1123.0	1125.2
7.5°	1286.0	1259.2	1210.1	1163.2	1116.3	1082.8	1035.9	998.0	966.7	933.2	939.9
10°	1301.6	1268.1	1198.9	1134.2	1049.3	942.2	819.4	739.0	698.8	658.6	663.1
12.5°	1332.9	1292.7	1203.4	1105.2	933.2	750.2	580.5	471.1	442.1	424.2	426.4
15°	1379.8	1330.7	1216.8	1049.3	777.0	542.5	386.2	339.4	350.5	357.2	357.2
17.5°	1428.9	1373.1	1228.0	948.9	600.6	379.5	314.8	310.3	326.0	341.6	341.6
20°	1489.2	1417.7	1230.2	821.6	433.1	308.1	296.9	296.9	308.1	326.0	326.0
22.5°	1547.2	1466.8	1210.1	676.5	330.4	285.8	285.8	285.8	292.5	310.3	312.6
25°	1616.4	1527.1	1167.7	522.4	283.5	272.4	272.4	274.6	279.1	294.7	296.9
27.5°	1690.1	1589.6	1096.2	381.8	259.0	256.8	259.0	261.2	263.5	279.1	283.5
30°	1774.9	1658.9	1004.7	285.8	236.7	236.7	243.4	247.8	247.8	261.2	265.7
32.5°	1873.2	1750.4	895.3	236.7	214.3	212.1	223.3	230.0	230.0	241.1	245.6
35°	1996.0	1844.2	763.6	209.9	196.5	192.0	196.5	207.6	212.1	221.0	223.3
37.5°	2159.0	1955.8	622.9	194.2	183.1	174.1	174.1	176.4	185.3	194.2	196.5
40°	2366.6	2078.6	484.5	183.1	169.7	160.7	154.1	151.8	149.6	156.3	160.7
42.5°	2627.8	2217.0	361.7	171.9	158.5	145.1	136.2	127.3	116.1	113.9	116.1
45°	2962.7	2386.7	267.9	163.0	151.8	131.7	116.1	100.5	80.4	73.7	75.9
47.5°	3357.9	2563.1	209.9	154.1	147.4	116.1	96.0	69.2	49.1	44.7	46.9
50°	3777.6	2732.7	178.6	142.9	138.4	100.5	69.2	42.4	29.0	29.0	31.3
52.5°	4134.8	2828.8	163.0	134.0	125.0	82.6	44.7	24.6	17.9	17.9	20.1
55°	4480.9	2880.1	151.8	125.0	107.2	58.0	24.6	15.6	11.2	11.2	11.2
57.5°	4838.1	2902.4	138.4	113.9	84.8	35.7	13.4	8.9	6.7	6.7	6.7
60°	5155.2	2860.0	118.3	93.8	55.8	17.9	6.7	6.7	4.5	2.2	2.2
62.5°	5420.8	2779.6	82.6	67.0	33.5	8.9	4.5	2.2	0.0	0.0	0.0
65°	5583.8	2650.1	53.6	44.7	20.1	6.7	2.2	0.0	0.0	0.0	0.0
67.5°	5536.9	2406.8	33.5	29.0	8.9	4.5	2.2	0.0	0.0	0.0	0.0
70°	4996.6	1973.7	24.6	17.9	6.7	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	3601.2	1335.1	17.9	11.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1732.5	475.6	11.2	8.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	424.2	104.9	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.8	20.1	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.3	8.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	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)