

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: P399342

Luminaire Tested: **ARCH-L-PA3-130-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399342
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-PA3-130-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 12735 lumens
Efficiency: N/A
Efficacy: 95.8 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

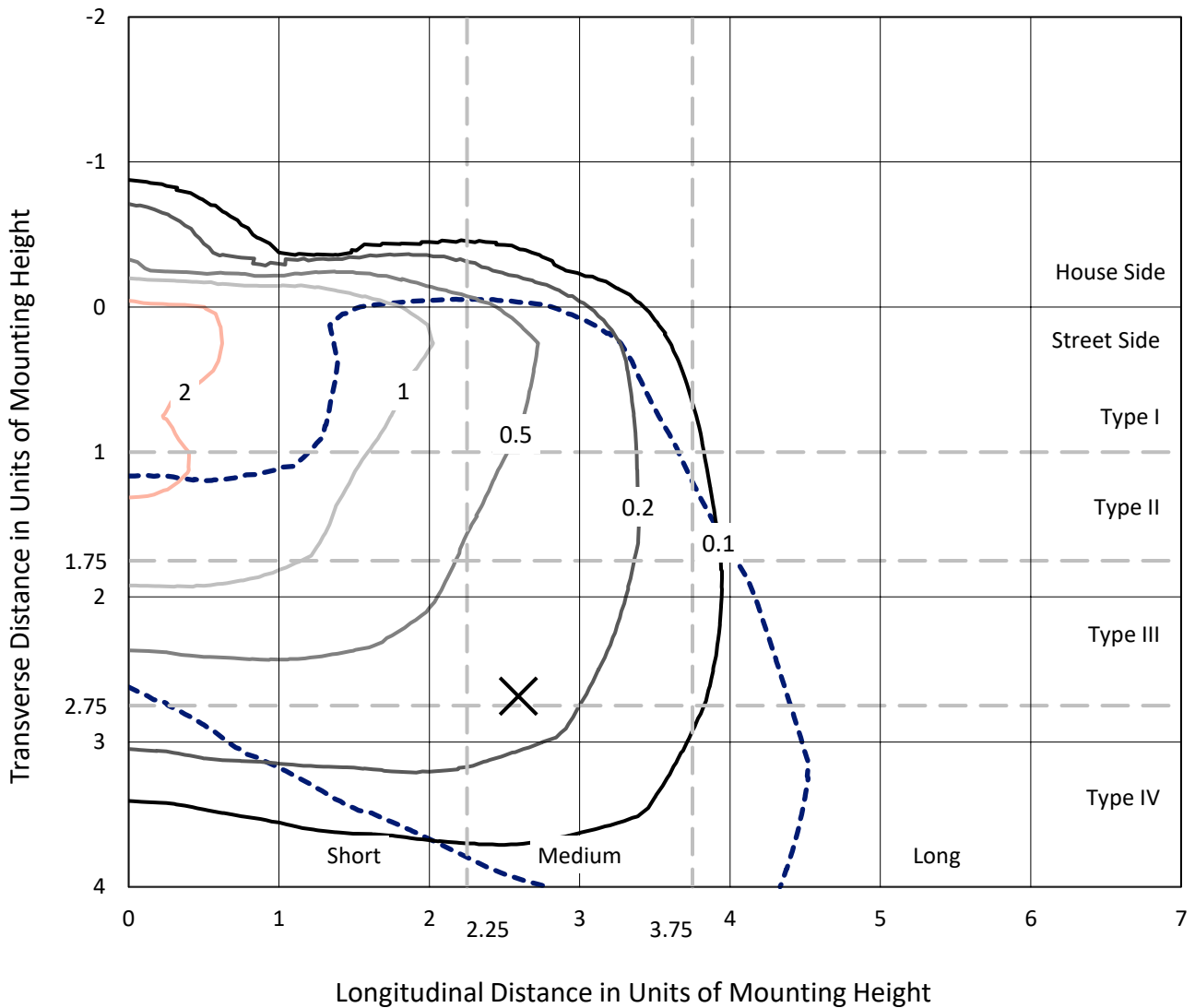
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

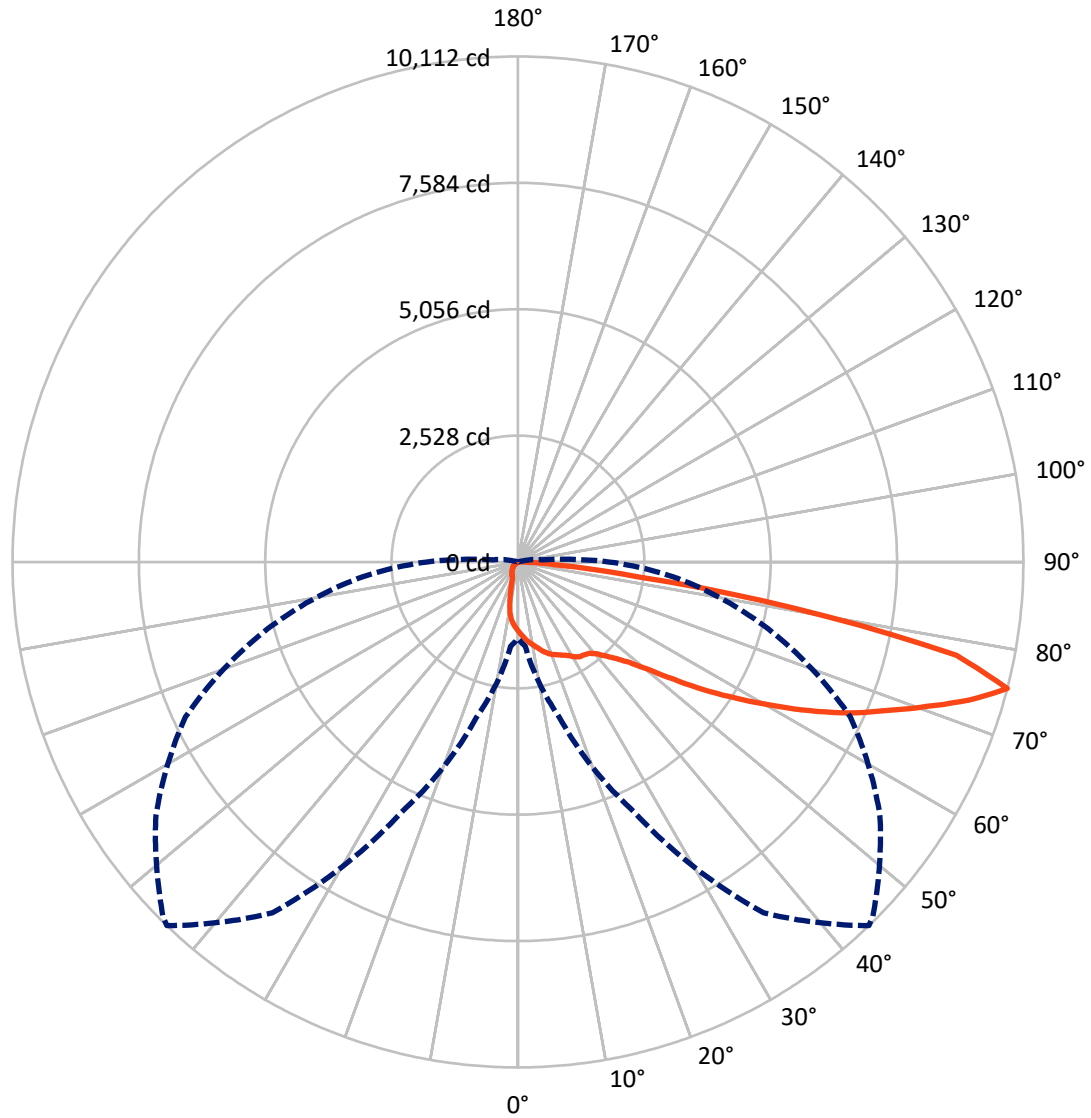
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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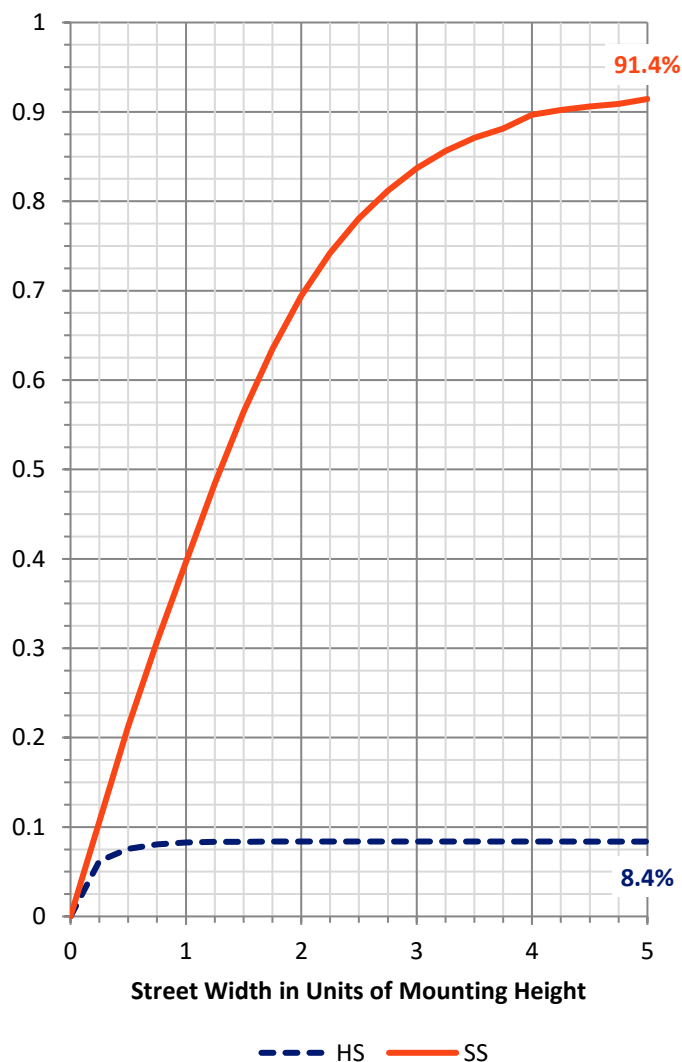
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.0	0.0	1074.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11661.0	0.0	11661.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	12735.0	0.0	12735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.0
10°-20°	366.3	2.9
20°-30°	604.5	4.7
30°-40°	877.4	6.9
40°-50°	1426.2	11.2
50°-60°	2514.3	19.7
60°-70°	3613.6	28.4
70°-80°	2893.7	22.7
80°-90°	308.3	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°	12735.0	100.0
0°-180°	12735.0	100.0

Coefficient of Utilization

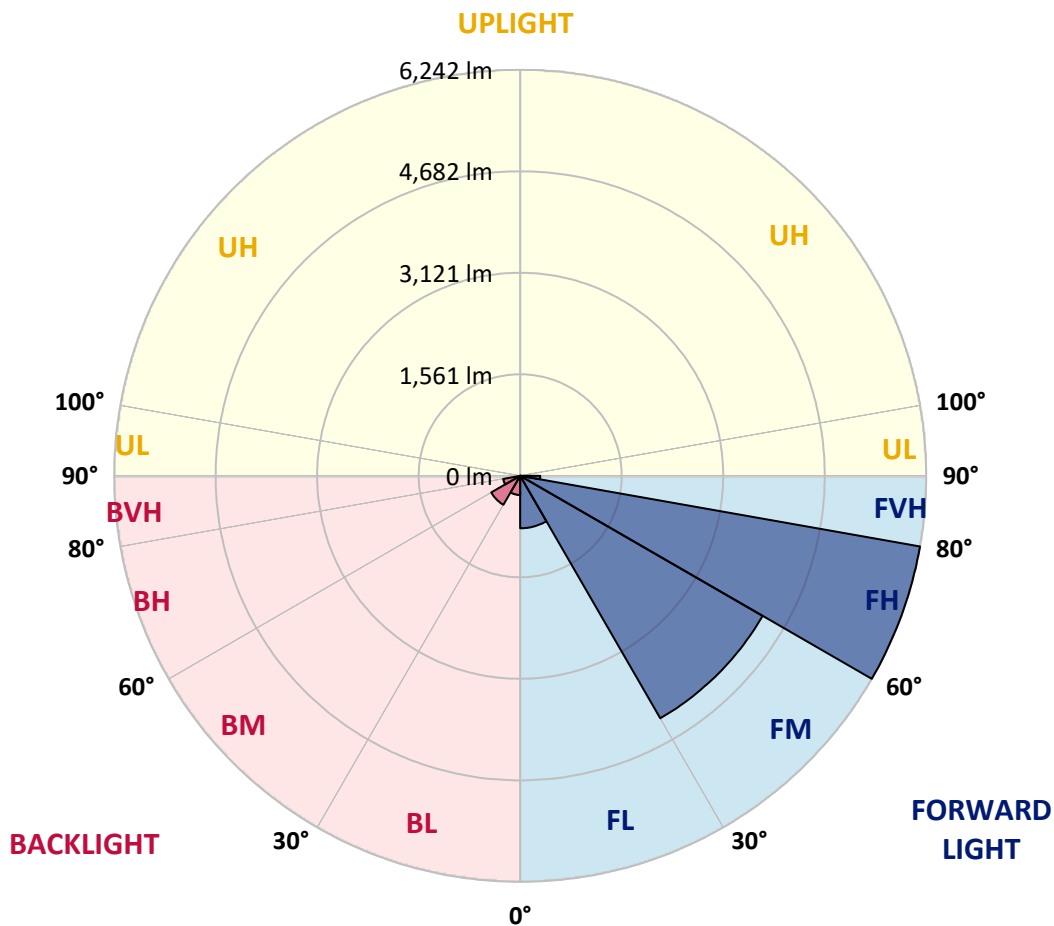


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.5	6.3			
FM (30°-60°)	4304.5	33.8			
FH (60°-80°)	6242.5	49.0			G3/7500
FVH (80°-90°)	307.5	2.4			G3/500
BL (0°-30°)	295.1	2.3	B1/500		
BM (30°-60°)	513.4	4.0	B1/1000		
BH (60°-80°)	264.8	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1510.7	1508.3	1501.3	1489.5	1477.8	1466.0	1463.7	1444.9	1423.7	1407.3	1393.2
5°	1644.6	1642.2	1630.5	1604.7	1578.8	1548.3	1545.9	1501.3	1461.3	1416.7	1379.1
7.5°	1783.2	1778.5	1757.4	1717.4	1672.8	1625.8	1621.1	1555.3	1496.6	1437.8	1383.8
10°	1891.3	1886.6	1856.0	1809.1	1748.0	1689.2	1682.2	1614.0	1555.3	1480.1	1407.3
12.5°	1997.0	1987.6	1947.7	1896.0	1820.8	1764.4	1757.4	1686.9	1616.4	1538.9	1449.6
15°	2095.7	2083.9	2046.3	1980.6	1900.7	1846.6	1841.9	1766.8	1693.9	1604.7	1506.0
17.5°	2163.8	2159.1	2114.5	2041.6	1964.1	1919.5	1914.8	1837.2	1764.4	1670.4	1564.7
20°	2199.1	2199.1	2156.8	2076.9	2006.4	1975.9	1968.8	1896.0	1825.5	1736.2	1625.8
22.5°	2206.1	2213.2	2180.3	2093.3	2041.6	2015.8	2011.1	1947.7	1879.5	1797.3	1693.9
25°	2220.2	2220.2	2203.8	2109.8	2072.2	2065.1	2062.8	2006.4	1945.3	1863.1	1762.1
27.5°	2236.6	2236.6	2224.9	2133.3	2119.2	2116.8	2114.5	2088.6	2039.3	1943.0	1841.9
30°	2278.9	2281.3	2271.9	2180.3	2170.9	2196.7	2201.4	2187.3	2126.2	2006.4	1924.2
32.5°	2384.7	2363.5	2337.7	2213.2	2229.6	2262.5	2264.8	2236.6	2170.9	2074.5	2022.8
35°	2650.1	2525.6	2408.2	2241.3	2248.4	2281.3	2286.0	2283.6	2243.7	2161.5	2135.6
37.5°	2896.8	2720.6	2553.8	2307.1	2283.6	2318.9	2328.3	2368.2	2337.7	2281.3	2288.3
40°	3040.1	2972.0	2854.5	2488.0	2354.1	2408.2	2417.6	2478.6	2466.9	2443.4	2488.0
42.5°	3481.8	3486.5	3359.7	2758.2	2483.3	2570.3	2582.0	2631.3	2647.8	2659.5	2767.6
45°	3994.0	4010.5	3979.9	3244.5	2727.7	2755.9	2772.3	2838.1	2899.2	2974.4	3171.7
47.5°	4609.6	4595.5	4482.7	3838.9	3152.9	2995.5	3007.3	3134.1	3239.8	3404.3	3686.2
50°	5154.6	5189.9	4976.1	4393.4	3752.0	3373.8	3362.0	3486.5	3676.8	3907.1	4261.8
52.5°	5704.4	5652.7	5363.7	4943.2	4461.5	3888.3	3853.0	3921.2	4189.0	4461.5	4825.7
55°	5850.1	5854.7	5756.1	5544.6	5053.6	4513.2	4454.5	4449.8	4783.4	4969.0	5417.8
57.5°	6136.7	6148.4	6171.9	6214.2	5981.6	5138.2	5077.1	5011.3	5335.5	5443.6	6012.2
60°	6428.0	6442.1	6585.4	6813.3	6658.2	5812.5	5746.7	5591.6	5772.5	5918.2	6637.1
62.5°	6390.4	6489.1	6904.9	7358.4	7339.6	6552.5	6470.3	6096.7	6211.9	6338.7	7210.4
65°	5770.2	5875.9	6811.0	7508.7	8023.3	7283.2	7149.3	6618.3	6625.4	6778.1	7762.5
67.5°	5215.7	5330.8	6223.6	7445.3	8474.3	7938.7	7800.1	7142.2	7031.8	7285.5	8058.5
70°	4896.2	5011.3	5756.1	7248.0	8601.2	8664.7	8544.8	7741.3	7515.8	7748.4	7727.2
72.5°	3831.9	4012.8	5159.3	6872.0	8737.5	9442.3	9348.3	8500.2	7926.9	7264.4	5882.9
75°	1527.1	1693.9	3221.1	5530.5	8566.0	10111.9	10039.1	8840.9	7337.2	5187.5	3012.0
77.5°	460.5	493.4	895.1	2734.7	6280.0	8965.4	8941.9	7433.6	5192.2	2408.2	822.3
80°	152.7	169.2	274.9	754.2	2866.3	5601.0	5706.7	4736.4	2358.8	552.1	166.8
82.5°	63.4	70.5	138.6	303.1	1014.9	2412.9	2377.6	2121.5	822.3	343.0	61.1
85°	16.4	21.1	63.4	173.9	371.2	831.7	874.0	711.9	465.2	284.3	18.8
87.5°	0.0	0.0	30.5	70.5	166.8	251.4	263.1	216.1	263.1	213.8	9.4
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°	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1381.5	1369.7	1348.6	1334.5	1315.7	1311.0	1301.6	1289.8	1287.5	1275.7	1278.1
5°	1358.0	1339.2	1301.6	1275.7	1245.2	1235.8	1219.3	1207.6	1198.2	1181.8	1184.1
7.5°	1353.3	1325.1	1273.4	1224.0	1174.7	1139.5	1090.1	1050.2	1017.3	982.1	989.1
10°	1369.7	1334.5	1261.6	1193.5	1104.2	991.5	862.2	777.7	735.4	693.1	697.8
12.5°	1402.6	1360.3	1266.3	1163.0	982.1	789.4	610.8	495.7	465.2	446.4	448.7
15°	1451.9	1400.3	1280.4	1104.2	817.6	570.9	406.4	357.1	368.9	375.9	375.9
17.5°	1503.6	1444.9	1292.2	998.5	632.0	399.4	331.3	326.6	343.0	359.5	359.5
20°	1567.1	1491.9	1294.5	864.6	455.8	324.2	312.5	312.5	324.2	343.0	343.0
22.5°	1628.1	1543.6	1273.4	711.9	347.7	300.7	300.7	300.7	307.8	326.6	328.9
25°	1701.0	1607.0	1228.7	549.8	298.4	286.6	286.6	289.0	293.7	310.1	312.5
27.5°	1778.5	1672.8	1153.6	401.8	272.5	270.2	272.5	274.9	277.2	293.7	298.4
30°	1867.8	1745.6	1057.2	300.7	249.0	249.0	256.1	260.8	260.8	274.9	279.6
32.5°	1971.2	1841.9	942.1	249.0	225.5	223.2	234.9	242.0	242.0	253.7	258.4
35°	2100.4	1940.6	803.5	220.8	206.7	202.0	206.7	218.5	223.2	232.6	234.9
37.5°	2271.9	2058.1	655.5	204.4	192.7	183.3	183.3	185.6	195.0	204.4	206.7
40°	2490.4	2187.3	509.8	192.7	178.6	169.2	162.1	159.8	157.4	164.5	169.2
42.5°	2765.3	2333.0	380.6	180.9	166.8	152.7	143.3	133.9	122.2	119.8	122.2
45°	3117.7	2511.5	281.9	171.5	159.8	138.6	122.2	105.7	84.6	77.5	79.9
47.5°	3533.5	2697.1	220.8	162.1	155.1	122.2	101.0	72.8	51.7	47.0	49.3
50°	3975.2	2875.7	188.0	150.4	145.7	105.7	72.8	44.6	30.5	30.5	32.9
52.5°	4351.1	2976.7	171.5	141.0	131.6	86.9	47.0	25.8	18.8	18.8	21.1
55°	4715.3	3030.7	159.8	131.6	112.8	61.1	25.8	16.4	11.7	11.7	11.7
57.5°	5091.2	3054.2	145.7	119.8	89.3	37.6	14.1	9.4	7.0	7.0	7.0
60°	5424.8	3009.6	124.5	98.7	58.7	18.8	7.0	7.0	4.7	2.3	2.3
62.5°	5704.4	2925.0	86.9	70.5	35.2	9.4	4.7	2.3	0.0	0.0	0.0
65°	5875.9	2788.8	56.4	47.0	21.1	7.0	2.3	0.0	0.0	0.0	0.0
67.5°	5826.6	2532.7	35.2	30.5	9.4	4.7	2.3	0.0	0.0	0.0	0.0
70°	5258.0	2076.9	25.8	18.8	7.0	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	3789.6	1405.0	18.8	11.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1823.1	500.4	11.7	9.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	446.4	110.4	7.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	98.7	21.1	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	9.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.3	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)