

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: P399423

Luminaire Tested: **ARCH-L-PA3-140-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399423
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-PA3-140-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA 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: 14757 lumens
Efficiency: N/A
Efficacy: 103.2 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

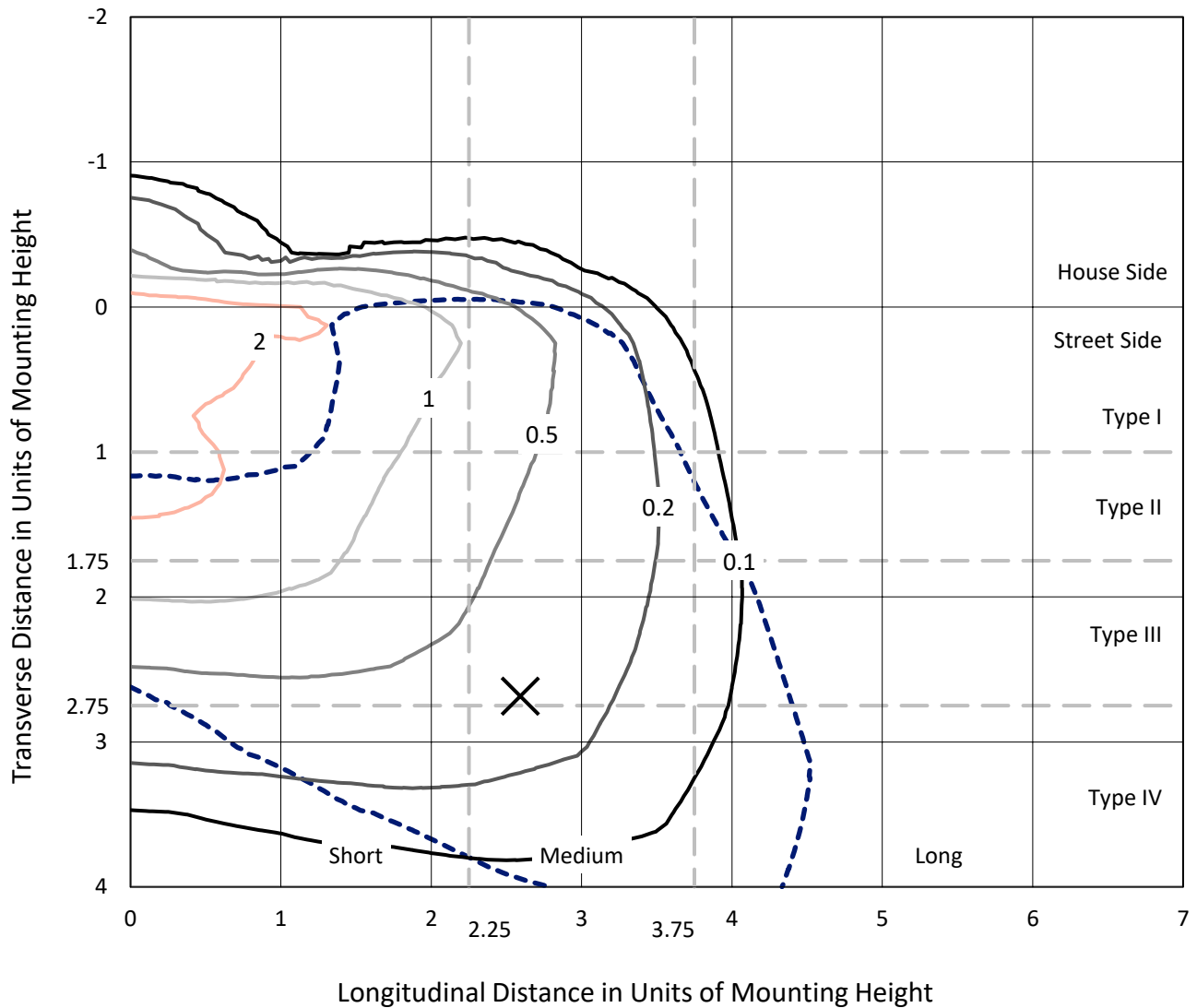
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

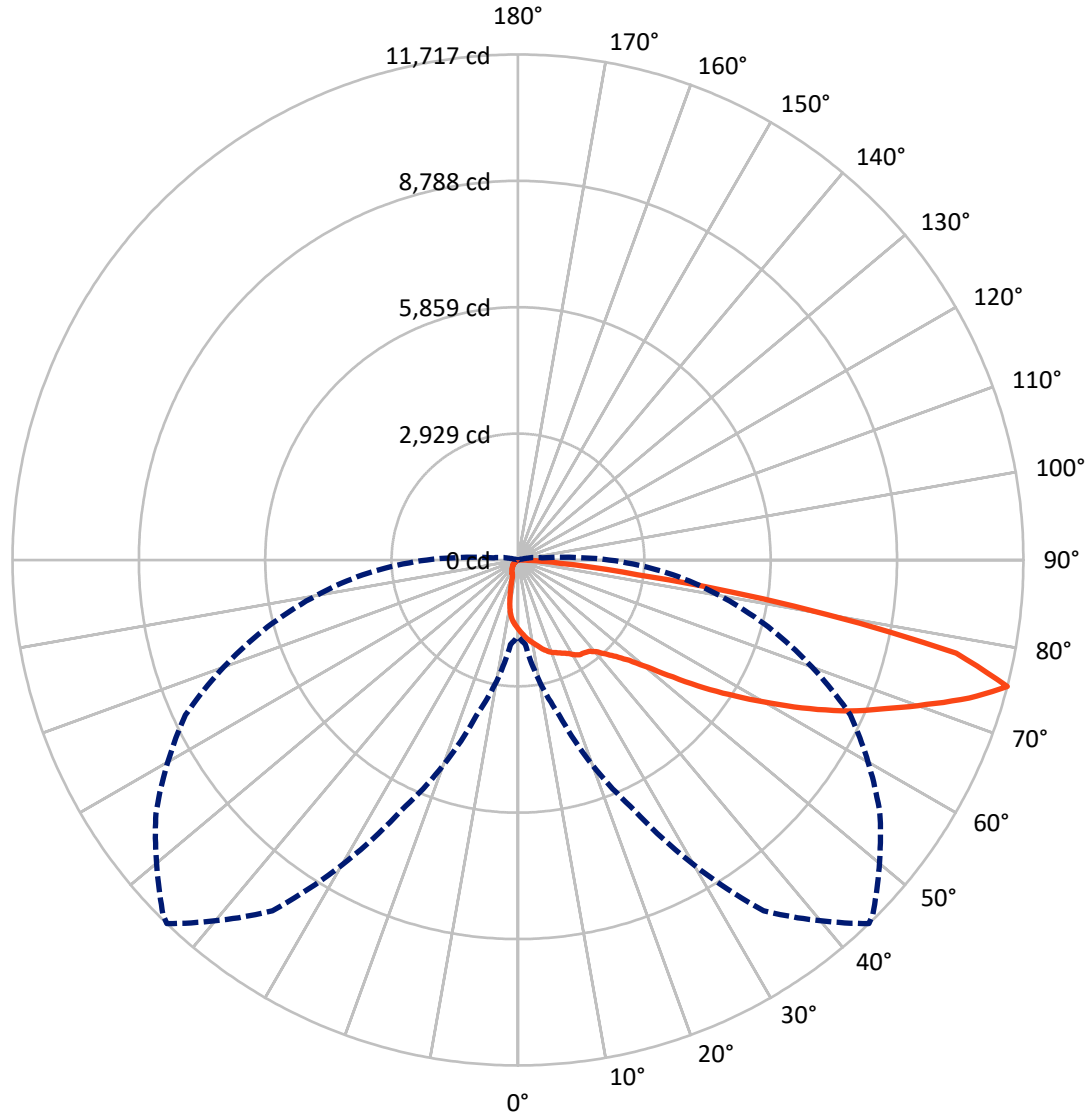
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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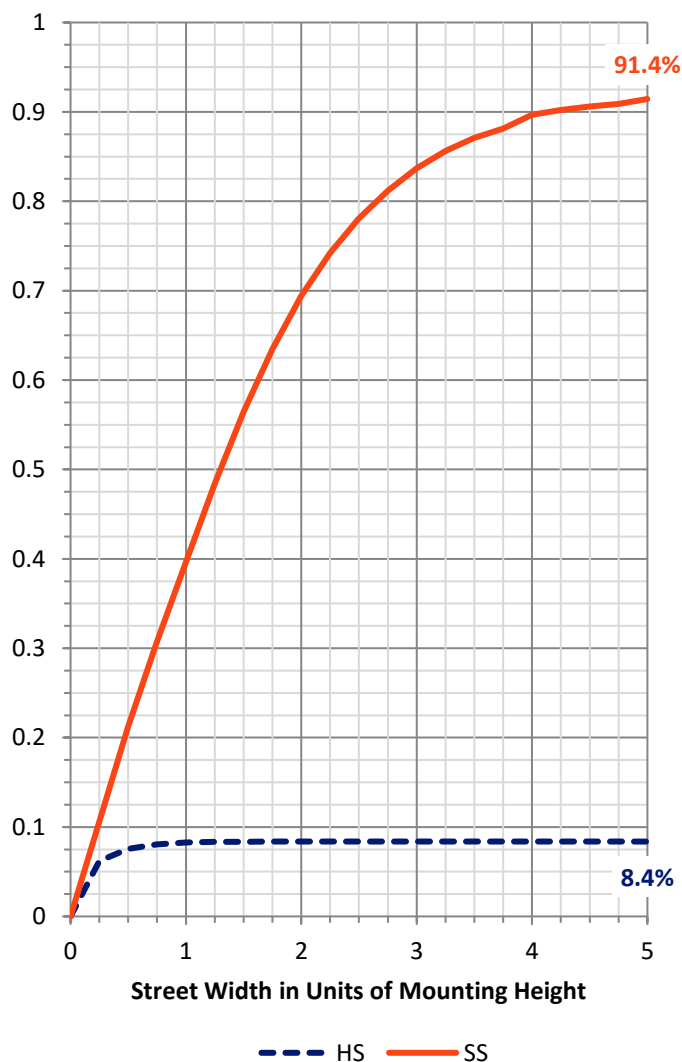
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.5	0.0	1244.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13512.5	0.0	13512.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	14757.0	0.0	14757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.0
10°-20°	424.5	2.9
20°-30°	700.5	4.7
30°-40°	1016.7	6.9
40°-50°	1652.7	11.2
50°-60°	2913.5	19.7
60°-70°	4187.3	28.4
70°-80°	3353.1	22.7
80°-90°	357.2	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°	14757.0	100.0
0°-180°	14757.0	100.0

Coefficient of Utilization



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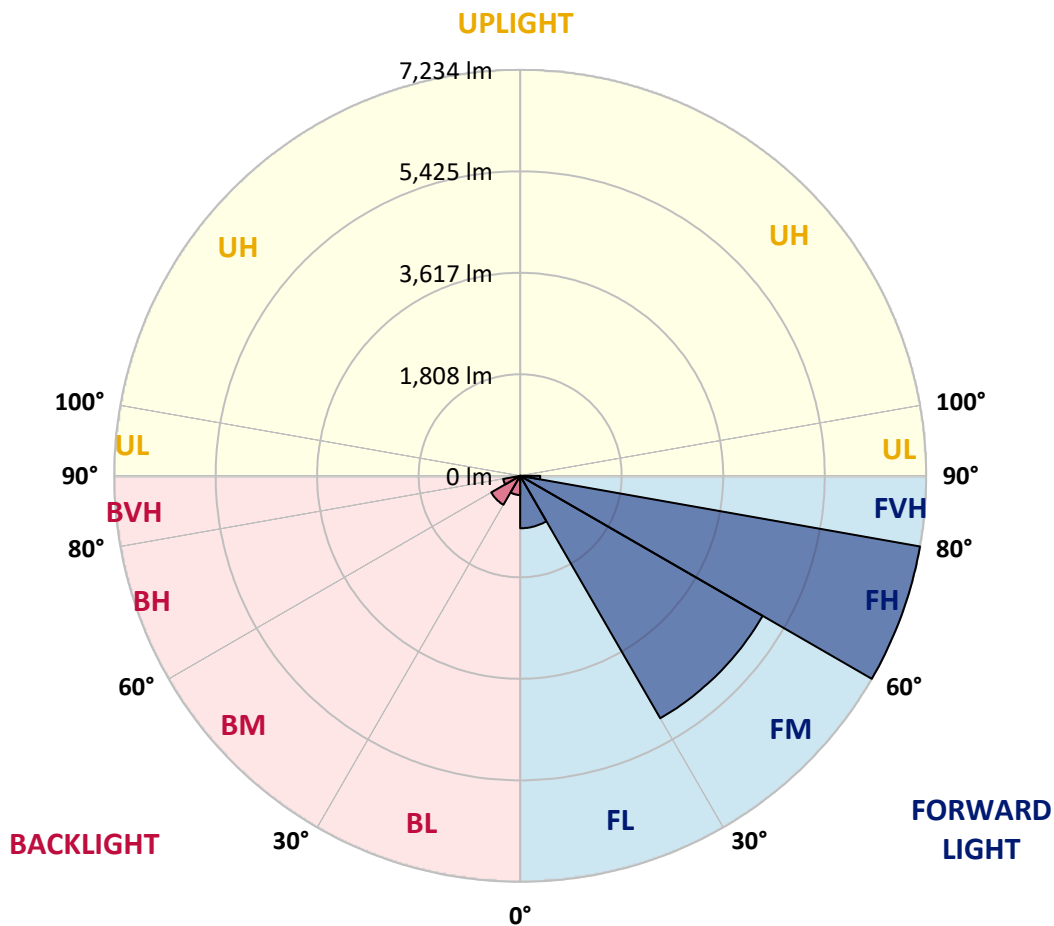
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.5	6.3			
FM (30°-60°)	4988.0	33.8			
FH (60°-80°)	7233.6	49.0			G3/7500
FVH (80°-90°)	356.3	2.4			G3/500
BL (0°-30°)	341.9	2.3	B1/500		
BM (30°-60°)	594.9	4.0	B1/1000		
BH (60°-80°)	306.8	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°	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1750.5	1747.8	1739.6	1726.0	1712.4	1698.8	1696.1	1674.3	1649.8	1630.7	1614.4
5°	1905.7	1903.0	1889.4	1859.4	1829.5	1794.1	1791.4	1739.6	1693.4	1641.6	1598.1
7.5°	2066.3	2060.9	2036.4	1990.1	1938.4	1883.9	1878.5	1802.3	1734.2	1666.1	1603.5
10°	2191.6	2186.1	2150.7	2096.3	2025.5	1957.4	1949.3	1870.3	1802.3	1715.1	1630.7
12.5°	2314.1	2303.2	2256.9	2197.0	2109.9	2044.6	2036.4	1954.7	1873.0	1783.2	1679.7
15°	2428.4	2414.8	2371.3	2295.0	2202.5	2139.8	2134.4	2047.3	1962.9	1859.4	1745.1
17.5°	2507.4	2501.9	2450.2	2365.8	2276.0	2224.2	2218.8	2129.0	2044.6	1935.7	1813.1
20°	2548.2	2548.2	2499.2	2406.6	2325.0	2289.6	2281.4	2197.0	2115.3	2011.9	1883.9
22.5°	2556.4	2564.5	2526.4	2425.7	2365.8	2335.9	2330.4	2256.9	2178.0	2082.7	1962.9
25°	2572.7	2572.7	2553.7	2444.8	2401.2	2393.0	2390.3	2325.0	2254.2	2158.9	2041.8
27.5°	2591.8	2591.8	2578.2	2472.0	2455.6	2452.9	2450.2	2420.3	2363.1	2251.5	2134.4
30°	2640.8	2643.5	2632.6	2526.4	2515.5	2545.5	2550.9	2534.6	2463.8	2325.0	2229.7
32.5°	2763.3	2738.8	2708.8	2564.5	2583.6	2621.7	2624.4	2591.8	2515.5	2403.9	2344.0
35°	3070.9	2926.6	2790.5	2597.2	2605.4	2643.5	2648.9	2646.2	2599.9	2504.7	2474.7
37.5°	3356.8	3152.6	2959.3	2673.4	2646.2	2687.1	2697.9	2744.2	2708.8	2643.5	2651.7
40°	3522.8	3443.9	3307.8	2883.1	2727.9	2790.5	2801.4	2872.2	2858.6	2831.3	2883.1
42.5°	4034.7	4040.1	3893.1	3196.2	2877.6	2978.4	2992.0	3049.1	3068.2	3081.8	3207.0
45°	4628.2	4647.2	4611.8	3759.7	3160.8	3193.4	3212.5	3288.7	3359.5	3446.6	3675.3
47.5°	5341.4	5325.1	5194.4	4448.5	3653.5	3471.1	3484.7	3631.7	3754.3	3944.8	4271.5
50°	5973.0	6013.9	5766.1	5091.0	4347.7	3909.4	3895.8	4040.1	4260.6	4527.4	4938.5
52.5°	6610.1	6550.2	6215.3	5728.0	5169.9	4505.6	4464.8	4543.8	4854.1	5169.9	5591.9
55°	6778.9	6784.3	6670.0	6425.0	5856.0	5229.8	5161.8	5156.3	5542.9	5758.0	6278.0
57.5°	7111.0	7124.6	7151.9	7200.9	6931.3	5954.0	5883.2	5807.0	6182.7	6307.9	6966.7
60°	7448.6	7464.9	7631.0	7895.1	7715.4	6735.3	6659.1	6479.4	6689.1	6857.8	7690.9
62.5°	7405.1	7519.4	8001.3	8526.7	8504.9	7592.9	7497.6	7064.7	7198.1	7345.2	8355.2
65°	6686.3	6808.8	7892.4	8700.9	9297.2	8439.6	8284.4	7669.1	7677.3	7854.3	8995.0
67.5°	6043.8	6177.2	7211.8	8627.4	9819.9	9199.1	9038.5	8276.2	8148.3	8442.3	9338.0
70°	5673.6	5807.0	6670.0	8398.7	9966.9	10040.4	9901.5	8970.5	8709.1	8978.6	8954.1
72.5°	4440.3	4649.9	5978.5	7963.2	10124.8	10941.5	10832.6	9849.8	9185.5	8417.8	6817.0
75°	1769.6	1962.9	3732.5	6408.6	9926.0	11717.4	11633.0	10244.6	8502.2	6011.2	3490.2
77.5°	533.6	571.7	1037.3	3168.9	7277.1	10388.9	10361.6	8613.8	6016.6	2790.5	952.9
80°	177.0	196.0	318.5	873.9	3321.4	6490.3	6612.8	5488.5	2733.3	639.8	193.3
82.5°	73.5	81.7	160.6	351.2	1176.1	2796.0	2755.1	2458.4	952.9	397.5	70.8
85°	19.1	24.5	73.5	201.5	430.1	963.7	1012.8	824.9	539.0	329.4	21.8
87.5°	0.0	0.0	35.4	81.7	193.3	291.3	304.9	250.5	304.9	247.7	10.9
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°	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1600.8	1587.2	1562.7	1546.3	1524.6	1519.1	1508.2	1494.6	1491.9	1478.3	1481.0
5°	1573.6	1551.8	1508.2	1478.3	1442.9	1432.0	1412.9	1399.3	1388.4	1369.4	1372.1
7.5°	1568.1	1535.5	1475.6	1418.4	1361.2	1320.4	1263.2	1216.9	1178.8	1138.0	1146.2
10°	1587.2	1546.3	1462.0	1383.0	1279.5	1148.9	999.1	901.1	852.1	803.1	808.6
12.5°	1625.3	1576.3	1467.4	1347.6	1138.0	914.7	707.8	574.4	539.0	517.3	520.0
15°	1682.5	1622.6	1483.7	1279.5	947.4	661.6	471.0	413.8	427.4	435.6	435.6
17.5°	1742.4	1674.3	1497.3	1157.0	732.3	462.8	383.9	378.4	397.5	416.5	416.5
20°	1815.9	1728.8	1500.1	1001.9	528.2	375.7	362.1	362.1	375.7	397.5	397.5
22.5°	1886.7	1788.6	1475.6	824.9	402.9	348.5	348.5	348.5	356.6	378.4	381.1
25°	1971.1	1862.2	1423.8	637.1	345.8	332.1	332.1	334.9	340.3	359.4	362.1
27.5°	2060.9	1938.4	1336.7	465.5	315.8	313.1	315.8	318.5	321.2	340.3	345.8
30°	2164.3	2022.8	1225.1	348.5	288.6	288.6	296.7	302.2	302.2	318.5	324.0
32.5°	2284.1	2134.4	1091.7	288.6	261.4	258.6	272.2	280.4	280.4	294.0	299.5
35°	2433.9	2248.7	931.1	255.9	239.6	234.1	239.6	253.2	258.6	269.5	272.2
37.5°	2632.6	2384.9	759.6	236.9	223.2	212.4	212.4	215.1	226.0	236.9	239.6
40°	2885.8	2534.6	590.8	223.2	206.9	196.0	187.8	185.1	182.4	190.6	196.0
42.5°	3204.3	2703.4	441.0	209.6	193.3	177.0	166.1	155.2	141.6	138.8	141.6
45°	3612.7	2910.3	326.7	198.7	185.1	160.6	141.6	122.5	98.0	89.8	92.6
47.5°	4094.6	3125.4	255.9	187.8	179.7	141.6	117.1	84.4	59.9	54.4	57.2
50°	4606.4	3332.3	217.8	174.2	168.8	122.5	84.4	51.7	35.4	35.4	38.1
52.5°	5042.0	3449.3	198.7	163.3	152.5	100.7	54.4	29.9	21.8	21.8	24.5
55°	5464.0	3512.0	185.1	152.5	130.7	70.8	29.9	19.1	13.6	13.6	13.6
57.5°	5899.5	3539.2	168.8	138.8	103.5	43.6	16.3	10.9	8.2	8.2	8.2
60°	6286.1	3487.5	144.3	114.3	68.1	21.8	8.2	8.2	5.4	2.7	2.7
62.5°	6610.1	3389.4	100.7	81.7	40.8	10.9	5.4	2.7	0.0	0.0	0.0
65°	6808.8	3231.5	65.3	54.4	24.5	8.2	2.7	0.0	0.0	0.0	0.0
67.5°	6751.7	2934.8	40.8	35.4	10.9	5.4	2.7	0.0	0.0	0.0	0.0
70°	6092.8	2406.6	29.9	21.8	8.2	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	4391.3	1628.0	21.8	13.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2112.6	579.9	13.6	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	517.3	128.0	8.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	114.3	24.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.1	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	2.7	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)