

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: P399216

Luminaire Tested: **ARCH-L-PA3-110-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399216
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-PA3-110-740-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 13183 lumens
Efficiency: N/A
Efficacy: 116.7 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

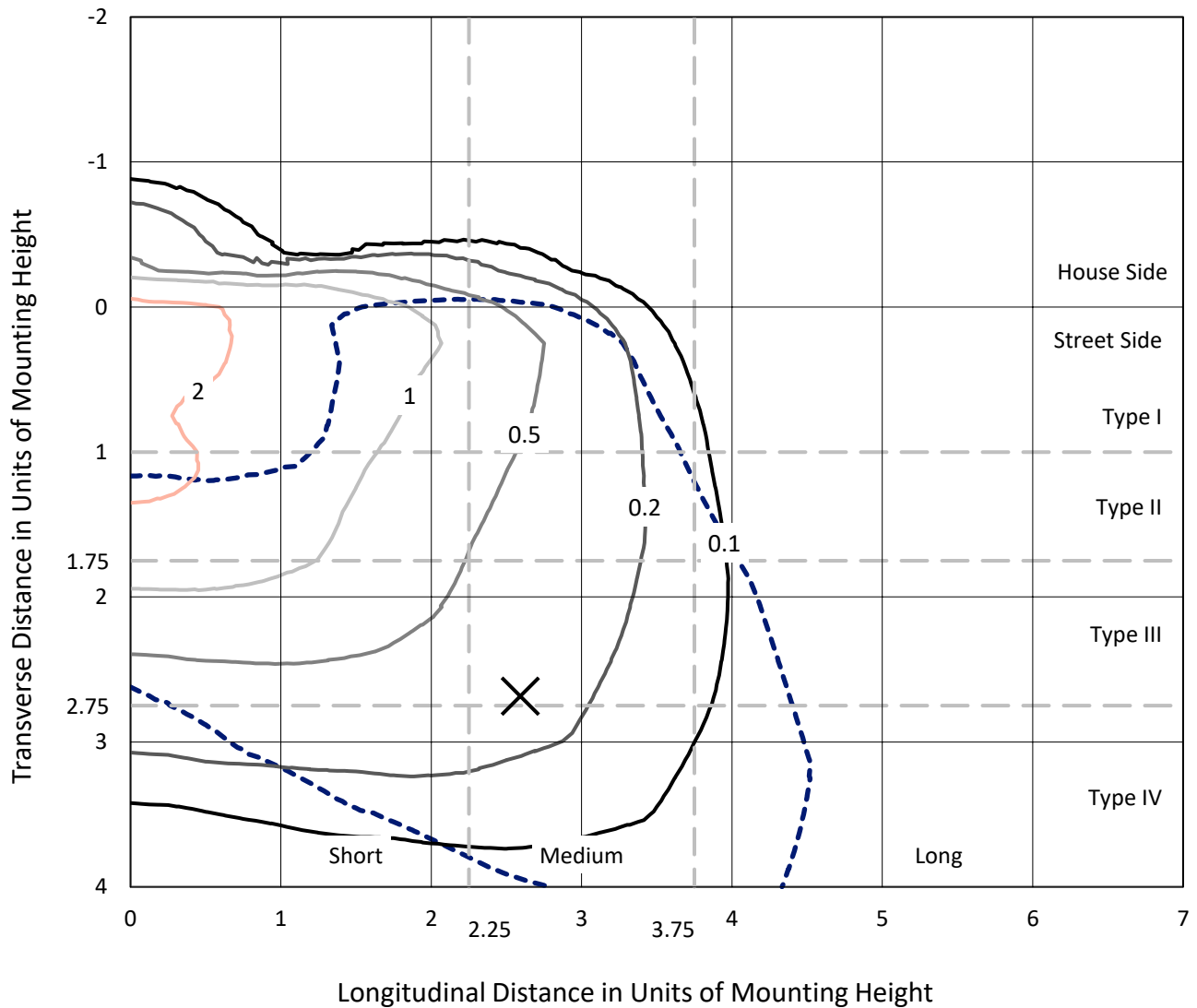
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

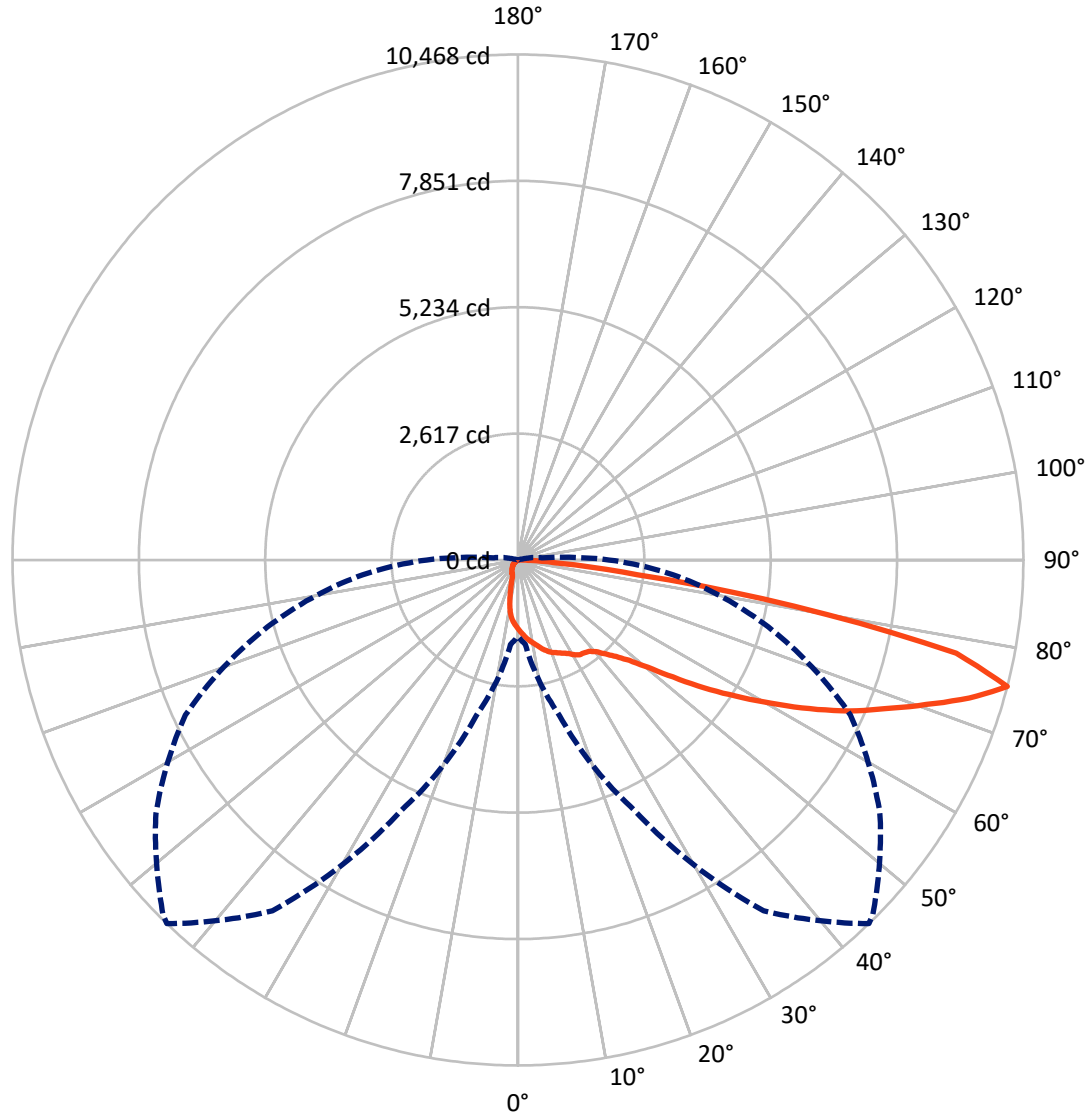
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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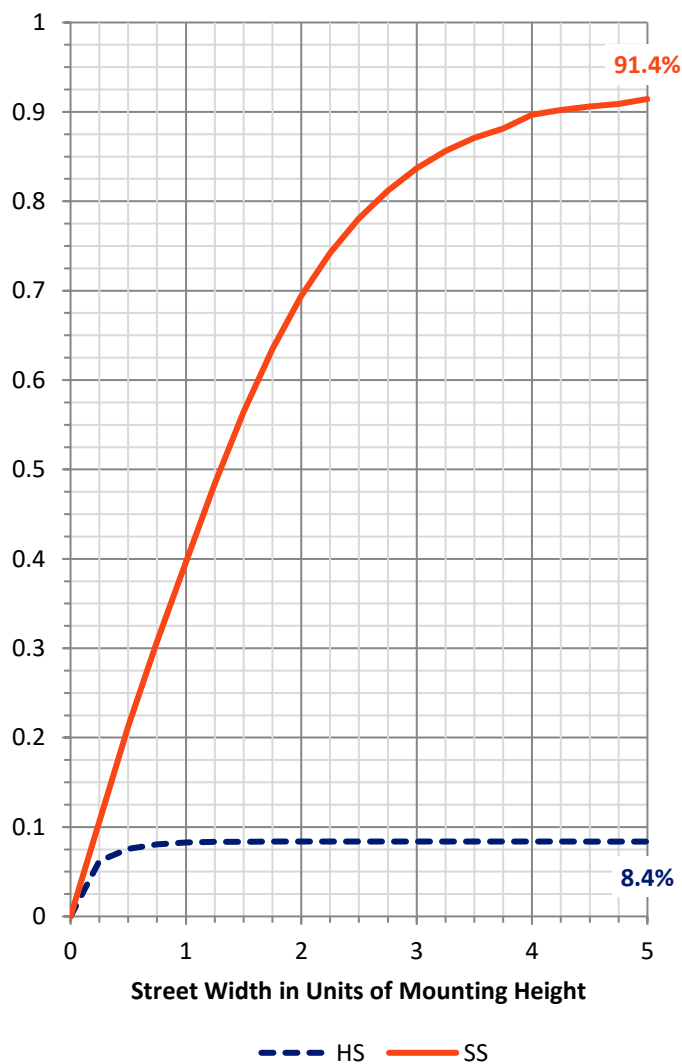
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.8	0.0	1111.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12071.2	0.0	12071.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	13183.0	0.0	13183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.0
10°-20°	379.2	2.9
20°-30°	625.8	4.7
30°-40°	908.2	6.9
40°-50°	1476.4	11.2
50°-60°	2602.7	19.7
60°-70°	3740.7	28.4
70°-80°	2995.5	22.7
80°-90°	319.1	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°	13183.0	100.0
0°-180°	13183.0	100.0

Coefficient of Utilization



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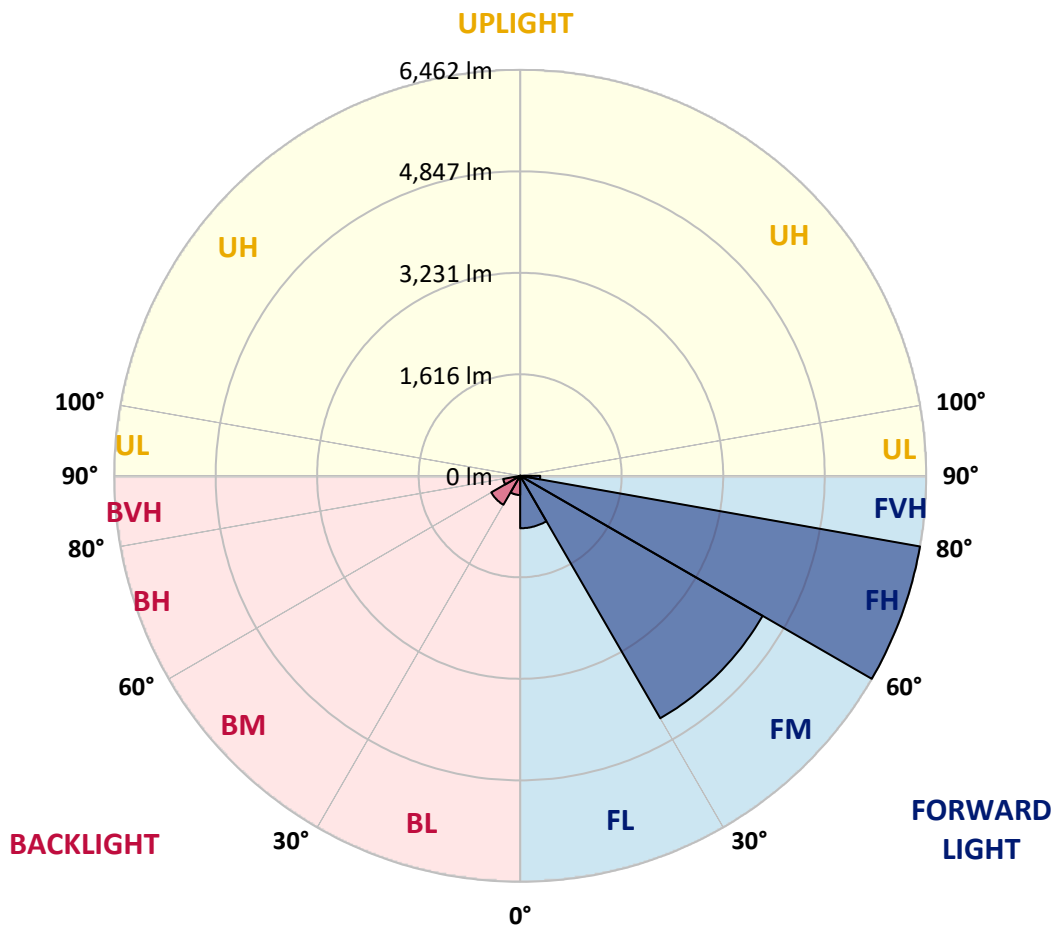
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.9	6.3			
FM (30°-60°)	4456.0	33.8			
FH (60°-80°)	6462.1	49.0			G3/7500
FVH (80°-90°)	318.3	2.4			G3/500
BL (0°-30°)	305.4	2.3	B1/500		
BM (30°-60°)	531.4	4.0	B1/1000		
BH (60°-80°)	274.1	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°	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9
2.5°	1563.8	1561.4	1554.1	1541.9	1529.8	1517.6	1515.2	1495.7	1473.8	1456.8	1442.2
5°	1702.4	1700.0	1687.9	1661.1	1634.3	1602.7	1600.3	1554.1	1512.7	1466.5	1427.6
7.5°	1845.9	1841.1	1819.2	1777.8	1731.6	1683.0	1678.1	1610.0	1549.2	1488.4	1432.5
10°	1957.8	1952.9	1921.3	1872.7	1809.5	1748.7	1741.4	1670.8	1610.0	1532.2	1456.8
12.5°	2067.3	2057.5	2016.2	1962.7	1884.9	1826.5	1819.2	1746.2	1673.3	1593.0	1500.6
15°	2169.4	2157.2	2118.3	2050.2	1967.5	1911.6	1906.7	1828.9	1753.5	1661.1	1559.0
17.5°	2239.9	2235.1	2188.9	2113.5	2033.2	1987.0	1982.1	1901.9	1826.5	1729.2	1619.8
20°	2276.4	2276.4	2232.6	2149.9	2077.0	2045.4	2038.1	1962.7	1889.7	1797.3	1683.0
22.5°	2283.7	2291.0	2257.0	2167.0	2113.5	2086.7	2081.8	2016.2	1945.7	1860.5	1753.5
25°	2298.3	2298.3	2281.3	2184.0	2145.1	2137.8	2135.4	2077.0	2013.8	1928.6	1824.1
27.5°	2315.3	2315.3	2303.2	2208.3	2193.7	2191.3	2188.9	2162.1	2111.0	2011.3	1906.7
30°	2359.1	2361.5	2351.8	2257.0	2247.2	2274.0	2278.8	2264.3	2201.0	2077.0	1991.9
32.5°	2468.5	2446.7	2419.9	2291.0	2308.0	2342.1	2344.5	2315.3	2247.2	2147.5	2094.0
35°	2743.4	2614.5	2492.9	2320.2	2327.5	2361.5	2366.4	2364.0	2322.6	2237.5	2210.7
37.5°	2998.7	2816.3	2643.7	2388.3	2364.0	2400.5	2410.2	2451.5	2419.9	2361.5	2368.8
40°	3147.1	3076.6	2955.0	2575.6	2436.9	2492.9	2502.6	2565.8	2553.7	2529.3	2575.6
42.5°	3604.3	3609.2	3477.9	2855.2	2570.7	2660.7	2672.8	2723.9	2740.9	2753.1	2865.0
45°	4134.5	4151.5	4119.9	3358.7	2823.6	2852.8	2869.8	2937.9	3001.2	3079.0	3283.3
47.5°	4771.7	4757.1	4640.4	3974.0	3263.8	3100.9	3113.0	3244.4	3353.8	3524.1	3815.9
50°	5336.0	5372.4	5151.1	4548.0	3884.0	3492.4	3480.3	3609.2	3806.2	4044.5	4411.8
52.5°	5905.1	5851.6	5552.4	5117.1	4618.5	4025.1	3988.6	4059.1	4336.4	4618.5	4995.5
55°	6055.8	6060.7	5958.6	5739.7	5231.4	4672.0	4611.2	4606.3	4951.7	5143.8	5608.3
57.5°	6352.6	6364.7	6389.0	6432.8	6192.0	5318.9	5255.7	5187.6	5523.2	5635.1	6223.7
60°	6654.1	6668.7	6817.1	7053.0	6892.5	6016.9	5948.8	5788.3	5975.6	6126.4	6870.6
62.5°	6615.2	6717.4	7147.8	7617.2	7597.8	6783.0	6697.9	6311.2	6430.4	6561.7	7464.0
65°	5973.2	6082.6	7050.6	7772.9	8305.5	7539.4	7400.8	6851.1	6858.4	7016.5	8035.5
67.5°	5399.2	5518.4	6442.5	7707.2	8772.5	8218.0	8074.5	7393.5	7279.2	7541.8	8342.0
70°	5068.4	5187.6	5958.6	7502.9	8903.8	8969.5	8845.4	8013.7	7780.2	8021.0	7999.1
72.5°	3966.7	4154.0	5340.8	7113.8	9044.9	9774.5	9677.2	8799.2	8205.8	7520.0	6089.9
75°	1580.8	1753.5	3334.4	5725.1	8867.3	10467.6	10392.2	9151.9	7595.3	5370.0	3117.9
77.5°	476.7	510.7	926.6	2830.9	6500.9	9280.8	9256.4	7695.1	5374.9	2492.9	851.2
80°	158.1	175.1	284.6	780.7	2967.1	5798.0	5907.5	4903.0	2441.8	571.5	172.7
82.5°	65.7	73.0	143.5	313.7	1050.7	2497.7	2461.3	2196.2	851.2	355.1	63.2
85°	17.0	21.9	65.7	180.0	384.3	861.0	904.7	736.9	481.5	294.3	19.5
87.5°	0.0	0.0	31.6	73.0	172.7	260.2	272.4	223.8	272.4	221.3	9.7
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°	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9	1434.9
2.5°	1430.1	1417.9	1396.0	1381.4	1362.0	1357.1	1347.4	1335.2	1332.8	1320.6	1323.0
5°	1405.7	1386.3	1347.4	1320.6	1289.0	1279.3	1262.2	1250.1	1240.4	1223.3	1225.8
7.5°	1400.9	1371.7	1318.2	1267.1	1216.0	1179.6	1128.5	1087.1	1053.1	1016.6	1023.9
10°	1417.9	1381.4	1306.0	1235.5	1143.1	1026.3	892.6	805.0	761.2	717.5	722.3
12.5°	1451.9	1408.2	1310.9	1203.9	1016.6	817.2	632.3	513.2	481.5	462.1	464.5
15°	1503.0	1449.5	1325.5	1143.1	846.4	591.0	420.7	369.7	381.8	389.1	389.1
17.5°	1556.5	1495.7	1337.6	1033.6	654.2	413.5	342.9	338.1	355.1	372.1	372.1
20°	1622.2	1544.4	1340.1	895.0	471.8	335.6	323.5	323.5	335.6	355.1	355.1
22.5°	1685.4	1597.9	1318.2	736.9	359.9	311.3	311.3	311.3	318.6	338.1	340.5
25°	1760.8	1663.5	1272.0	569.1	308.9	296.7	296.7	299.1	304.0	321.0	323.5
27.5°	1841.1	1731.6	1194.1	415.9	282.1	279.7	282.1	284.6	287.0	304.0	308.9
30°	1933.5	1807.0	1094.4	311.3	257.8	257.8	265.1	270.0	270.0	284.6	289.4
32.5°	2040.5	1906.7	975.3	257.8	233.5	231.0	243.2	250.5	250.5	262.7	267.5
35°	2174.3	2008.9	831.8	228.6	214.0	209.2	214.0	226.2	231.0	240.8	243.2
37.5°	2351.8	2130.5	678.5	211.6	199.4	189.7	189.7	192.1	201.9	211.6	214.0
40°	2578.0	2264.3	527.8	199.4	184.8	175.1	167.8	165.4	162.9	170.2	175.1
42.5°	2862.5	2415.0	394.0	187.3	172.7	158.1	148.4	138.6	126.5	124.0	126.5
45°	3227.4	2599.9	291.8	177.5	165.4	143.5	126.5	109.4	87.6	80.3	82.7
47.5°	3657.8	2792.0	228.6	167.8	160.5	126.5	104.6	75.4	53.5	48.6	51.1
50°	4115.1	2976.9	194.6	155.7	150.8	109.4	75.4	46.2	31.6	31.6	34.0
52.5°	4504.2	3081.4	177.5	145.9	136.2	90.0	48.6	26.8	19.5	19.5	21.9
55°	4881.2	3137.4	165.4	136.2	116.7	63.2	26.8	17.0	12.2	12.2	12.2
57.5°	5270.3	3161.7	150.8	124.0	92.4	38.9	14.6	9.7	7.3	7.3	7.3
60°	5615.6	3115.5	128.9	102.1	60.8	19.5	7.3	7.3	4.9	2.4	2.4
62.5°	5905.1	3027.9	90.0	73.0	36.5	9.7	4.9	2.4	0.0	0.0	0.0
65°	6082.6	2886.9	58.4	48.6	21.9	7.3	2.4	0.0	0.0	0.0	0.0
67.5°	6031.5	2621.8	36.5	31.6	9.7	4.9	2.4	0.0	0.0	0.0	0.0
70°	5443.0	2149.9	26.8	19.5	7.3	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3922.9	1454.4	19.5	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1887.3	518.0	12.2	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	462.1	114.3	7.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.1	21.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.0	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.4	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)