

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: P399484

Luminaire Tested: **ARCH-L-PA3-150-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14541 lumens
Efficiency: N/A
Efficacy: 95.0 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

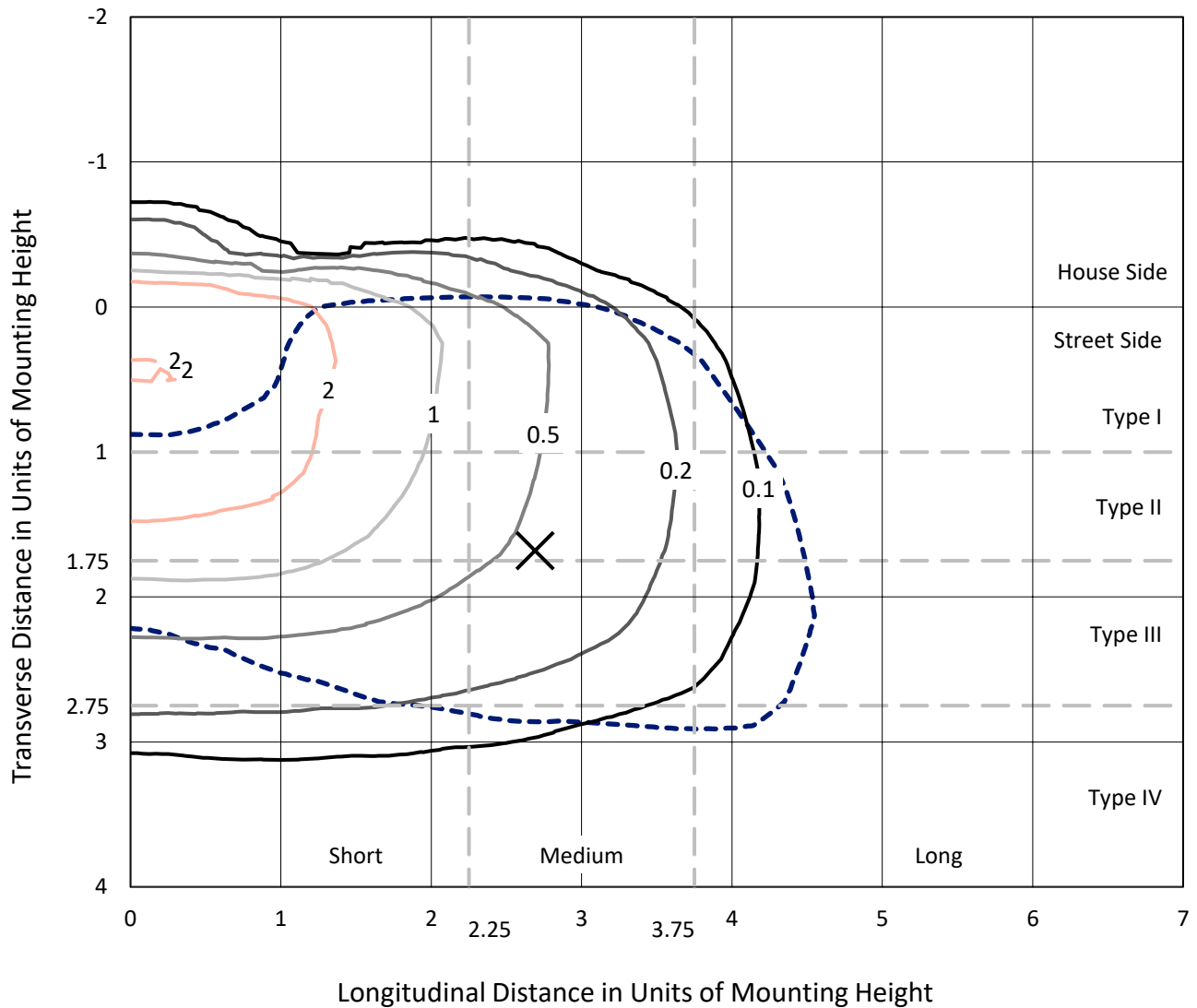
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

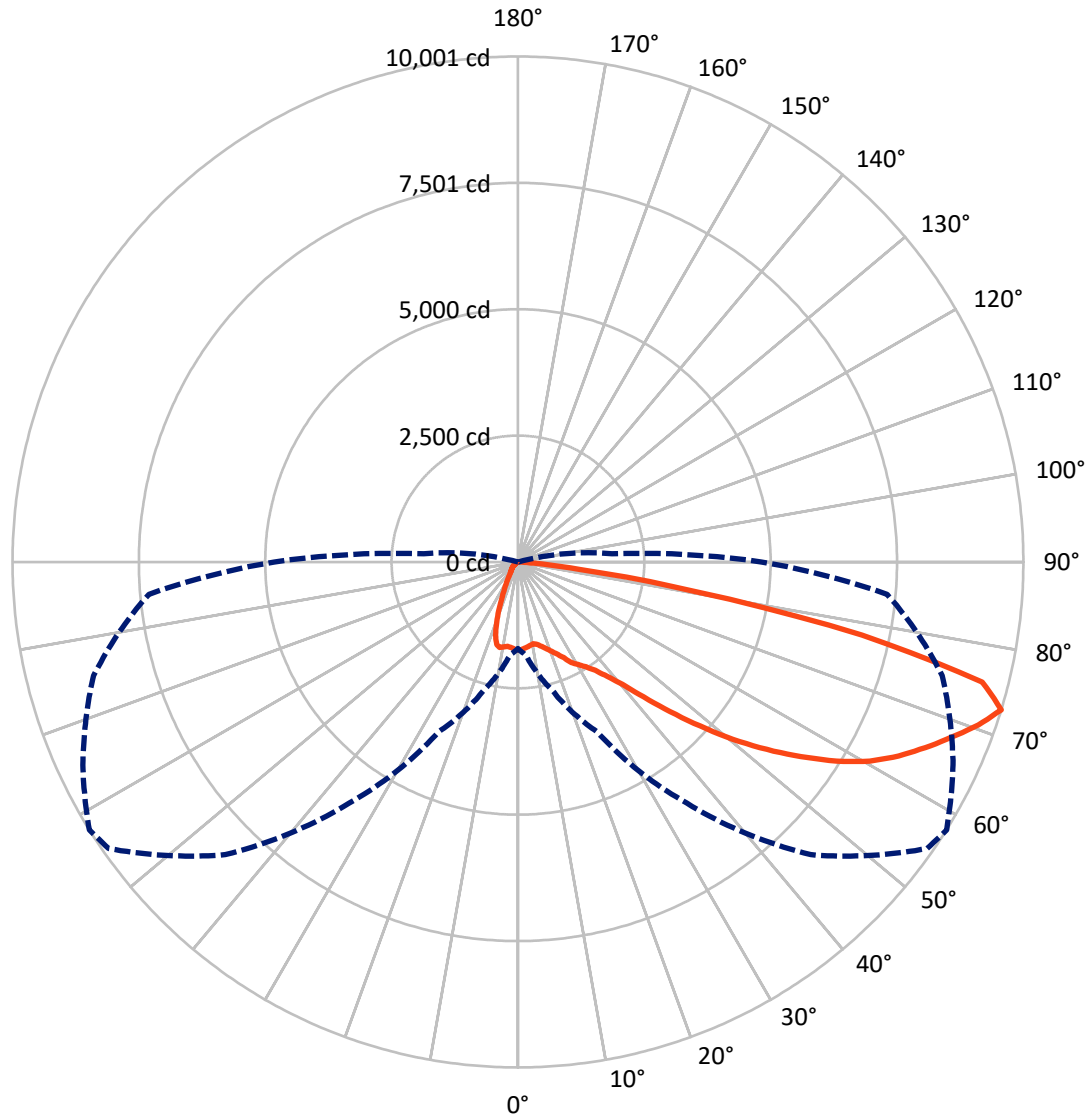
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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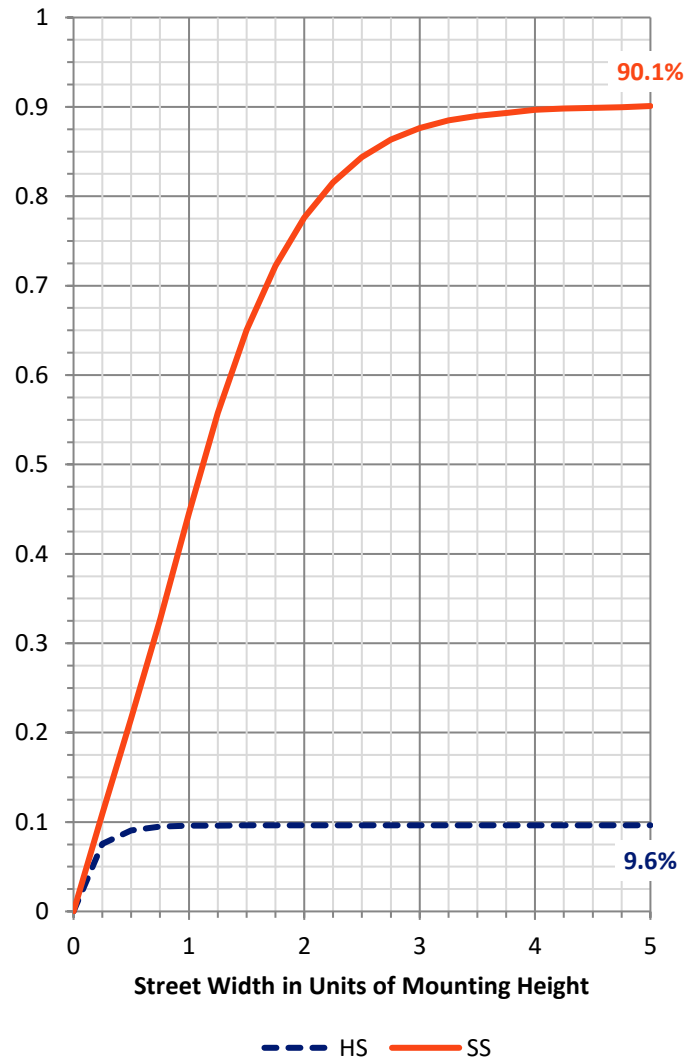
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.0	0.0	1414.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	13127.0	0.0	13127.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	14541.0	0.0	14541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.1
10°-20°	417.1	2.9
20°-30°	655.2	4.5
30°-40°	1129.9	7.8
40°-50°	2149.8	14.8
50°-60°	3404.6	23.4
60°-70°	3972.8	27.3
70°-80°	2488.2	17.1
80°-90°	163.3	1.1
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°	14541.0	100.0
0°-180°	14541.0	100.0

Coefficient of Utilization

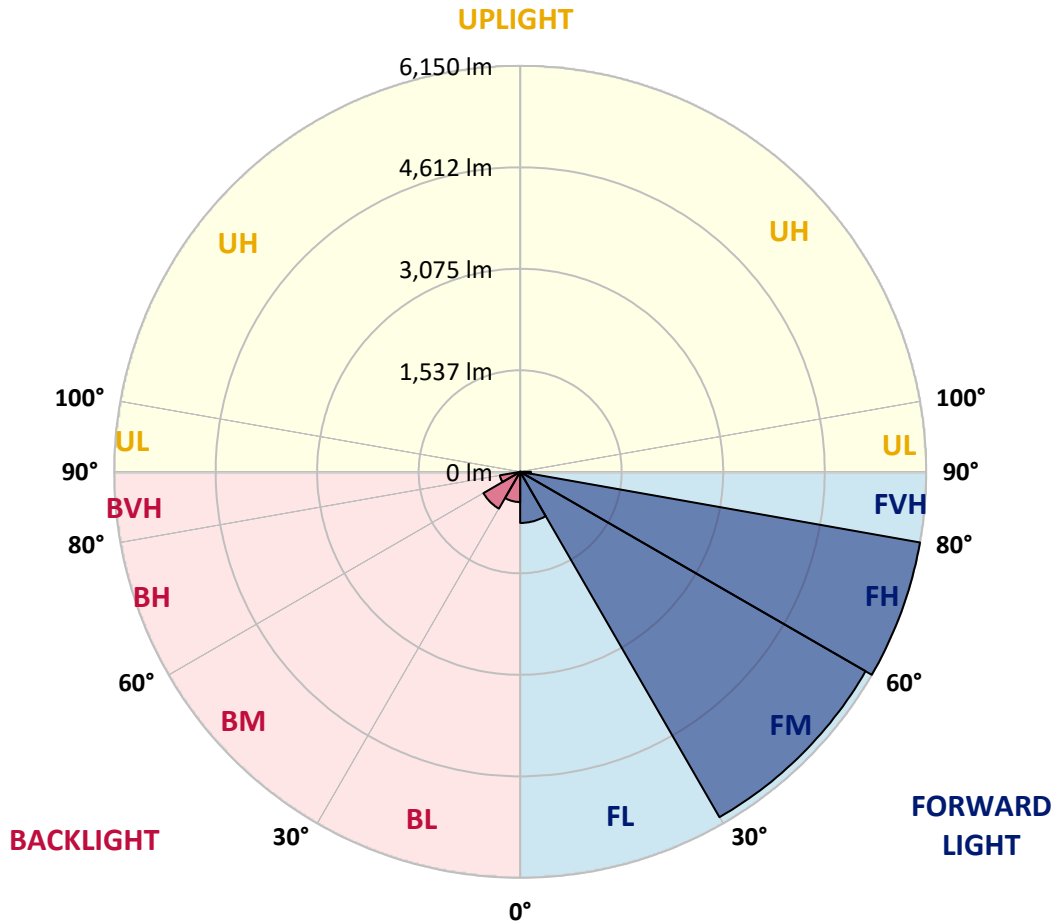


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.5	5.3			
FM (30°-60°)	6040.9	41.5			
FH (60°-80°)	6149.8	42.3			G3/7500
FVH (80°-90°)	161.7	1.1			G2/225
BL (0°-30°)	457.9	3.1	B1/500		
BM (30°-60°)	643.4	4.4	B1/1000		
BH (60°-80°)	311.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	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°	45°	55°	58°	65°	75°	85°
0°	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8
2.5°	1737.0	1729.2	1726.6	1724.0	1726.6	1729.2	1721.4	1729.2	1724.0	1726.6	1731.8
5°	1674.6	1666.8	1664.2	1666.8	1674.6	1687.6	1692.8	1700.6	1700.6	1708.4	1711.0
7.5°	1604.4	1599.2	1596.6	1601.8	1617.4	1646.0	1661.6	1672.0	1682.4	1698.0	1713.6
10°	1565.4	1562.8	1560.2	1568.0	1583.6	1609.6	1630.4	1646.0	1685.0	1729.2	1757.8
12.5°	1539.4	1539.4	1544.6	1560.2	1581.0	1601.8	1651.2	1672.0	1731.8	1799.4	1838.4
15°	1518.6	1518.6	1526.4	1555.0	1583.6	1633.0	1705.8	1729.2	1799.4	1882.6	1934.7
17.5°	1503.0	1508.2	1513.4	1542.0	1596.6	1679.8	1765.6	1799.4	1885.2	1976.3	2033.5
20°	1505.6	1510.8	1513.4	1542.0	1620.0	1734.4	1843.6	1882.6	1981.5	2077.7	2134.9
22.5°	1521.2	1529.0	1531.6	1570.6	1661.6	1791.6	1932.1	1976.3	2082.9	2184.3	2228.5
25°	1586.2	1591.4	1575.8	1609.6	1721.4	1880.0	2046.5	2093.3	2199.9	2293.5	2329.9
27.5°	1807.2	1812.4	1726.6	1687.6	1768.2	1952.9	2186.9	2251.9	2384.5	2446.9	2452.1
30°	2285.7	2290.9	2121.9	1937.3	1880.0	2015.3	2264.9	2355.9	2527.5	2597.7	2566.5
32.5°	2902.0	2896.8	2665.4	2392.3	2145.3	2124.5	2376.7	2472.9	2660.2	2727.8	2704.4
35°	3520.9	3528.7	3331.0	2920.2	2566.5	2329.9	2519.7	2631.5	2857.8	2954.0	2912.4
37.5°	3944.7	3996.7	3910.9	3466.3	3084.0	2709.6	2751.2	2870.8	3154.2	3284.2	3195.8
40°	4542.8	4529.8	4321.8	3994.1	3656.1	3271.2	3125.6	3182.8	3507.9	3682.1	3544.3
42.5°	5346.3	5320.3	4966.7	4646.8	4269.8	3955.1	3658.7	3648.3	3913.5	4116.3	3916.1
45°	6074.4	6035.4	5793.6	5484.1	5070.7	4709.2	4308.8	4217.8	4402.4	4574.0	4340.0
47.5°	6654.3	6589.3	6417.7	6253.8	6152.4	5590.7	4990.1	4852.2	4945.9	5073.3	4743.0
50°	7340.8	7161.3	6911.7	6812.9	7023.5	6589.3	5645.3	5512.7	5507.5	5580.3	5159.1
52.5°	7652.8	7327.8	7187.4	7270.6	7642.4	7517.6	6352.6	6162.8	6087.4	6095.2	5546.5
55°	7275.8	7239.4	7314.8	7574.8	8061.1	7988.3	7031.3	6797.3	6685.5	6545.1	5918.4
57.5°	6846.7	6958.5	7257.6	7754.2	8591.5	8479.7	7699.6	7434.4	7229.0	6906.5	6331.8
60°	6451.5	6565.9	7059.9	7795.8	8882.8	8953.0	8256.1	8003.9	7699.6	7275.8	6786.9
62.5°	5850.8	5939.2	6633.5	7736.0	8755.4	9228.6	8643.5	8453.7	8170.3	7626.8	7309.6
65°	5174.7	5231.9	5918.4	7257.6	8505.7	9197.4	8963.4	8856.8	8581.1	7993.5	7827.0
67.5°	4433.6	4501.2	5073.3	6396.8	8016.9	9051.8	9265.0	9254.6	8940.0	8399.1	8201.5
70°	3580.7	3585.9	4059.1	5304.7	7163.9	8760.6	9639.5	9662.9	9283.2	8703.4	8217.1
72.5°	1713.6	1854.0	2631.5	3702.9	5822.2	8188.5	9883.9	10000.9	9499.1	8693.0	7330.4
75°	392.7	405.7	767.1	1760.4	3414.3	6285.0	9272.8	9491.3	8973.8	7517.6	5164.3
77.5°	143.0	150.8	215.8	514.9	1313.2	3247.8	6636.1	6955.9	6633.5	4860.0	2441.7
80°	96.2	93.6	111.8	228.8	603.3	920.5	3393.4	3583.3	3271.2	1659.0	585.1
82.5°	49.4	52.0	78.0	127.4	405.7	319.8	1133.8	1232.6	1014.1	332.8	109.2
85°	23.4	23.4	44.2	80.6	171.6	111.8	252.2	304.2	273.0	145.6	36.4
87.5°	23.4	23.4	41.6	52.0	88.4	46.8	62.4	78.0	72.8	78.0	13.0
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°	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8
2.5°	1731.8	1729.2	1726.6	1731.8	1729.2	1734.4	1734.4	1739.6	1739.6	1734.4	1731.8
5°	1708.4	1703.2	1698.0	1698.0	1695.4	1700.6	1716.2	1729.2	1731.8	1724.0	1721.4
7.5°	1711.0	1711.0	1705.8	1695.4	1677.2	1677.2	1677.2	1692.8	1700.6	1695.4	1692.8
10°	1757.8	1760.4	1747.4	1724.0	1692.8	1664.2	1609.6	1529.0	1453.6	1432.8	1425.0
12.5°	1838.4	1841.0	1815.0	1773.4	1708.4	1539.4	1331.4	1139.0	990.7	949.1	941.3
15°	1934.7	1937.3	1890.5	1822.8	1625.2	1232.6	923.1	704.7	574.7	543.5	540.9
17.5°	2033.5	2028.3	1958.1	1828.0	1378.2	873.7	561.7	449.9	416.1	408.3	410.9
20°	2129.7	2114.1	2017.9	1731.8	1060.9	572.1	410.9	384.9	377.0	371.8	371.8
22.5°	2218.1	2186.9	2067.3	1542.0	743.7	410.9	366.6	361.4	351.0	343.2	340.6
25°	2306.5	2262.3	2098.5	1295.0	499.3	358.8	345.8	335.4	322.4	312.0	309.4
27.5°	2413.1	2350.7	2082.9	982.9	374.4	332.8	322.4	306.8	288.6	273.0	267.8
30°	2514.5	2444.3	1994.5	678.7	319.8	306.8	291.2	267.8	244.4	226.2	221.0
32.5°	2642.0	2561.3	1835.8	444.7	278.2	267.8	252.2	223.6	192.4	171.6	166.4
35°	2824.0	2733.0	1633.0	312.0	244.4	226.2	205.4	174.2	140.4	124.8	122.2
37.5°	3078.8	2956.6	1378.2	252.2	215.8	189.8	158.6	127.4	104.0	91.0	88.4
40°	3390.8	3203.6	1094.7	223.6	192.4	158.6	119.6	91.0	75.4	65.0	65.0
42.5°	3728.9	3435.1	806.1	205.4	169.0	130.0	88.4	65.0	54.6	49.4	46.8
45°	4077.3	3640.5	543.5	189.8	148.2	98.8	62.4	44.2	36.4	36.4	33.8
47.5°	4438.8	3778.3	351.0	171.6	124.8	72.8	41.6	31.2	26.0	26.0	26.0
50°	4797.6	3851.1	249.6	156.0	101.4	49.4	31.2	23.4	20.8	20.8	20.8
52.5°	5057.7	3804.3	200.2	135.2	78.0	36.4	23.4	18.2	15.6	15.6	15.6
55°	5283.9	3723.7	174.2	117.0	57.2	26.0	18.2	15.6	13.0	13.0	13.0
57.5°	5515.3	3619.7	156.0	98.8	41.6	18.2	13.0	10.4	10.4	10.4	10.4
60°	5726.0	3442.9	135.2	78.0	28.6	13.0	10.4	7.8	7.8	7.8	7.8
62.5°	5931.4	3292.0	117.0	59.8	20.8	10.4	5.2	5.2	2.6	2.6	2.6
65°	6048.4	3089.2	93.6	39.0	13.0	7.8	2.6	2.6	0.0	0.0	0.0
67.5°	6012.0	2847.4	65.0	23.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
70°	5759.8	2522.3	39.0	13.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	4823.6	1867.0	23.4	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
75°	3221.8	858.1	13.0	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	1474.4	257.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	296.4	67.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	13.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	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)