

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: P399277

Luminaire Tested: **ARCH-L-PA3-120-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399277
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-PA3-120-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA 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: 13108 lumens
Efficiency: N/A
Efficacy: 106.6 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

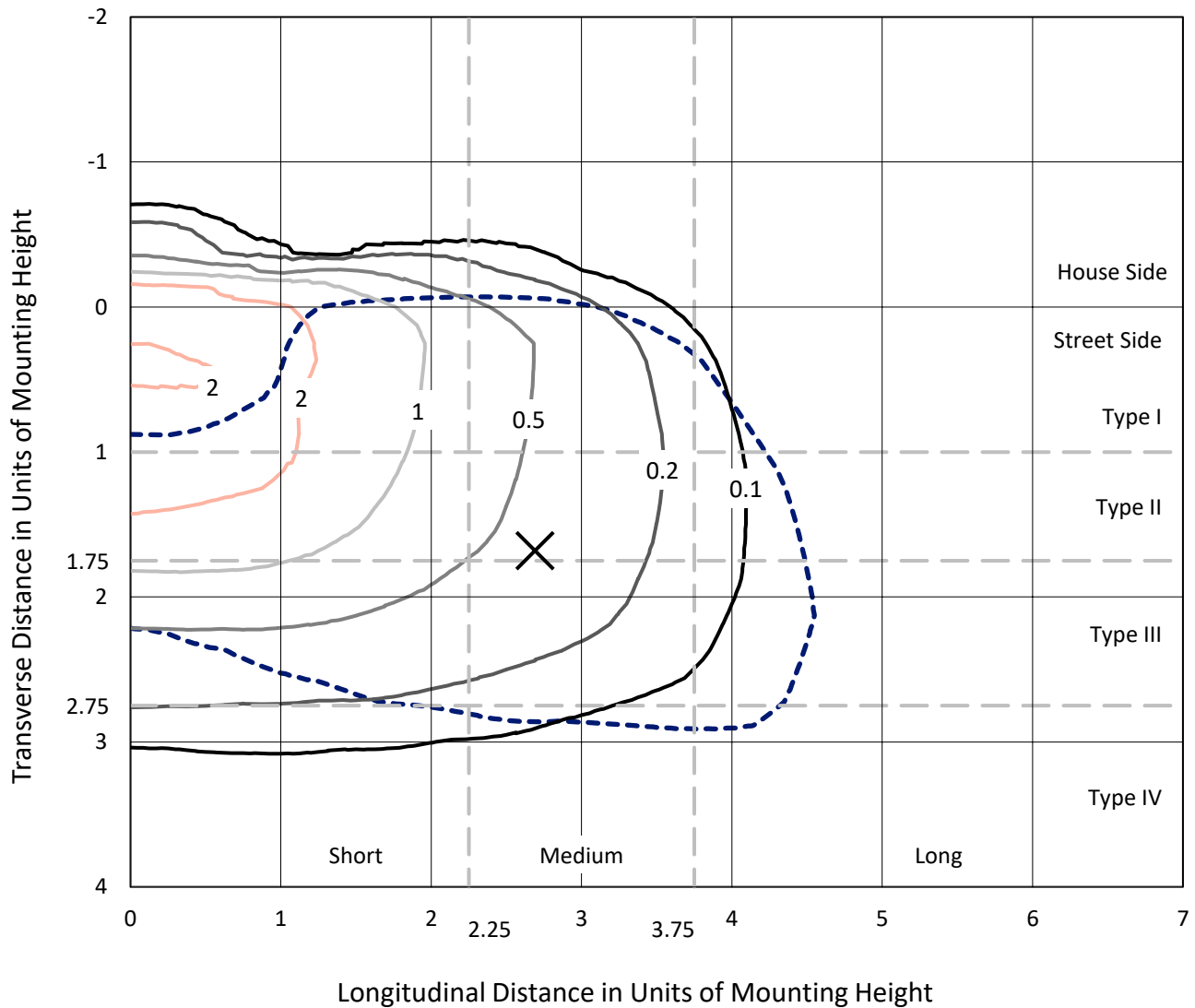
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

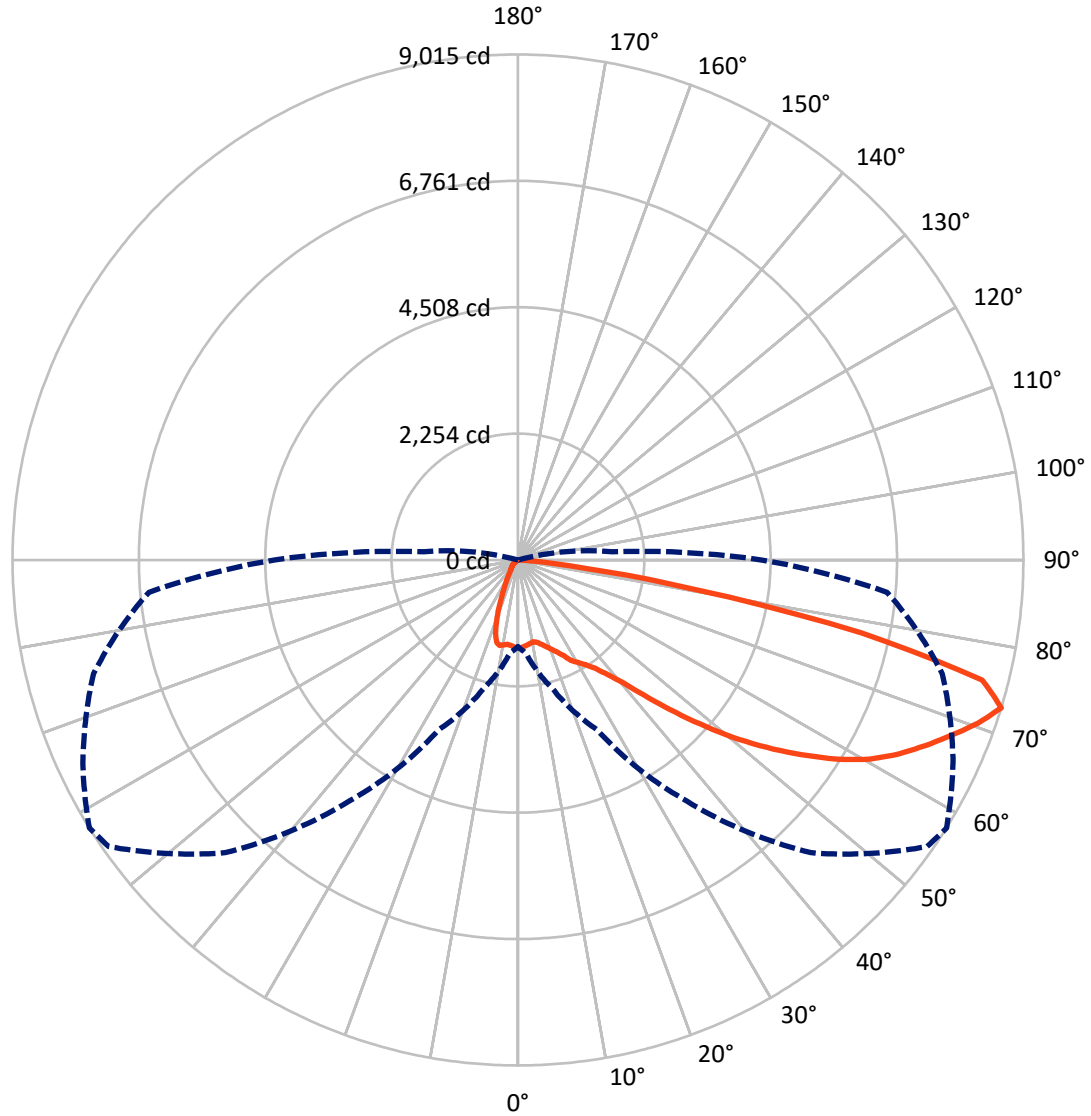
✕ Max cd
 - - - 1/2 Max cd



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

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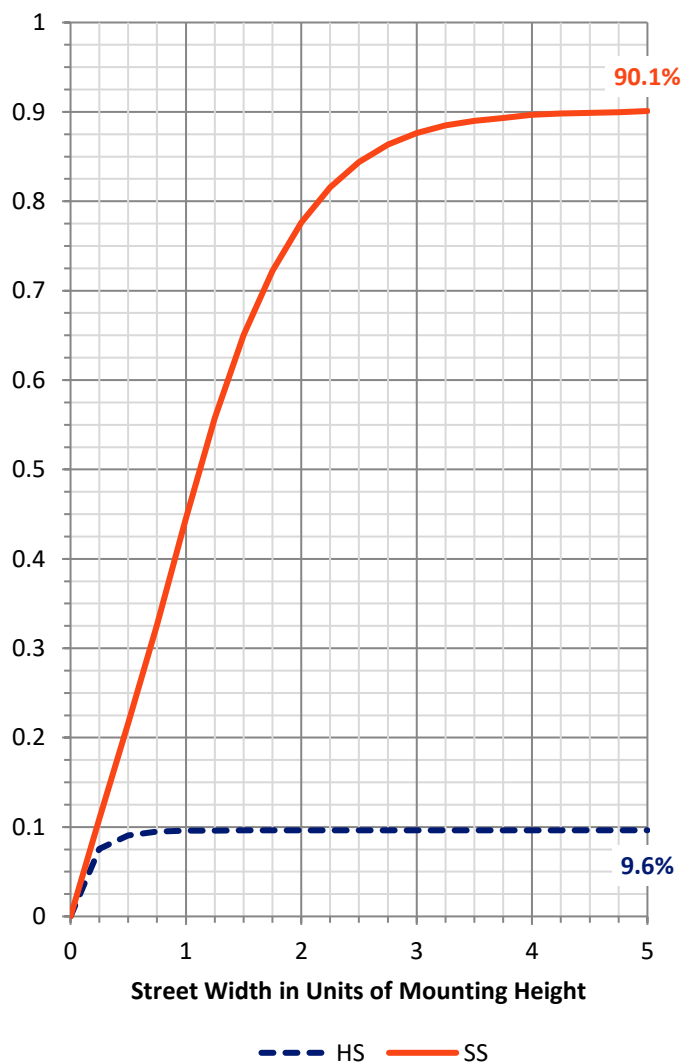
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1274.7	0.0	1274.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	11833.3	0.0	11833.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	13108.0	0.0	13108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.1
10°-20°	376.0	2.9
20°-30°	590.6	4.5
30°-40°	1018.6	7.8
40°-50°	1937.9	14.8
50°-60°	3069.1	23.4
60°-70°	3581.3	27.3
70°-80°	2243.0	17.1
80°-90°	147.2	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°	13108.0	100.0
0°-180°	13108.0	100.0

Coefficient of Utilization

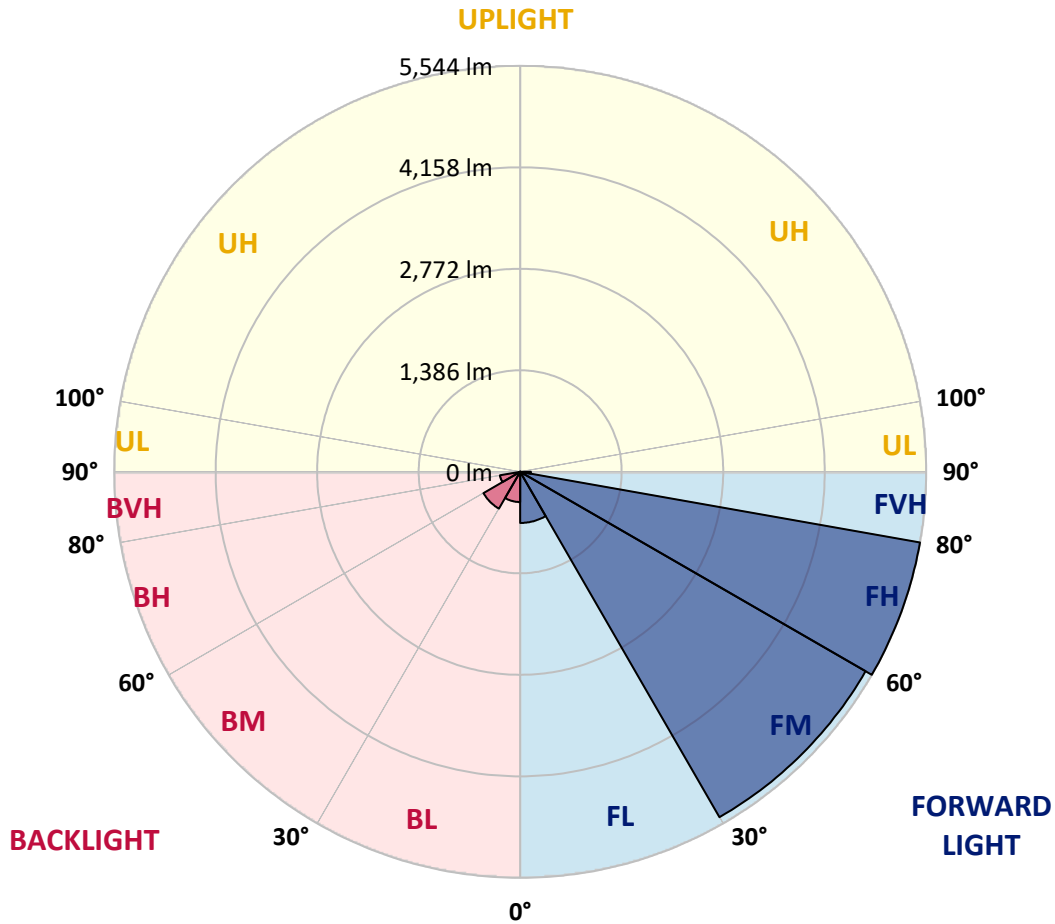


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.2	5.3			
FM (30°-60°)	5445.6	41.5			
FH (60°-80°)	5543.7	42.3			G3/7500
FVH (80°-90°)	145.8	1.1			G2/225
BL (0°-30°)	412.8	3.1	B1/500		
BM (30°-60°)	580.0	4.4	B1/1000		
BH (60°-80°)	280.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1565.8	1558.8	1556.5	1554.1	1556.5	1558.8	1551.8	1558.8	1554.1	1556.5	1561.2
5°	1509.6	1502.6	1500.2	1502.6	1509.6	1521.3	1526.0	1533.0	1533.0	1540.1	1542.4
7.5°	1446.3	1441.6	1439.3	1444.0	1458.0	1483.8	1497.9	1507.2	1516.6	1530.7	1544.8
10°	1411.1	1408.8	1406.5	1413.5	1427.5	1451.0	1469.7	1483.8	1519.0	1558.8	1584.6
12.5°	1387.7	1387.7	1392.4	1406.5	1425.2	1444.0	1488.5	1507.2	1561.2	1622.1	1657.3
15°	1368.9	1368.9	1376.0	1401.8	1427.5	1472.1	1537.7	1558.8	1622.1	1697.1	1744.0
17.5°	1354.9	1359.6	1364.3	1390.0	1439.3	1514.3	1591.6	1622.1	1699.5	1781.5	1833.1
20°	1357.2	1361.9	1364.3	1390.0	1460.4	1563.5	1662.0	1697.1	1786.2	1872.9	1924.5
22.5°	1371.3	1378.3	1380.7	1415.8	1497.9	1615.1	1741.7	1781.5	1877.6	1969.0	2008.9
25°	1429.9	1434.6	1420.5	1451.0	1551.8	1694.8	1844.8	1887.0	1983.1	2067.5	2100.3
27.5°	1629.1	1633.8	1556.5	1521.3	1594.0	1760.4	1971.4	2030.0	2149.5	2205.8	2210.5
30°	2060.4	2065.1	1912.8	1746.3	1694.8	1816.7	2041.7	2123.7	2278.4	2341.7	2313.6
32.5°	2616.0	2611.3	2402.7	2156.6	1933.9	1915.1	2142.5	2229.2	2398.0	2458.9	2437.8
35°	3173.9	3180.9	3002.8	2632.4	2313.6	2100.3	2271.4	2372.2	2576.1	2662.9	2625.4
37.5°	3556.0	3602.9	3525.5	3124.7	2780.1	2442.5	2480.0	2587.9	2843.4	2960.6	2880.9
40°	4095.1	4083.4	3895.9	3600.5	3295.8	2948.9	2817.6	2869.2	3162.2	3319.2	3195.0
42.5°	4819.4	4796.0	4477.2	4188.9	3849.0	3565.4	3298.1	3288.7	3527.8	3710.7	3530.2
45°	5475.8	5440.6	5222.6	4943.7	4571.0	4245.1	3884.1	3802.1	3968.5	4123.2	3912.3
47.5°	5998.5	5939.9	5785.2	5637.5	5546.1	5039.8	4498.3	4374.1	4458.4	4573.3	4275.6
50°	6617.3	6455.6	6230.6	6141.5	6331.4	5939.9	5089.0	4969.5	4964.8	5030.4	4650.7
52.5°	6898.6	6605.6	6479.0	6554.1	6889.3	6776.7	5726.6	5555.5	5487.5	5494.5	4999.9
55°	6558.7	6525.9	6593.9	6828.3	7266.7	7201.0	6338.4	6127.4	6026.6	5900.1	5335.1
57.5°	6172.0	6272.8	6542.3	6990.1	7744.9	7644.1	6940.8	6701.7	6516.6	6225.9	5707.8
60°	5815.7	5918.8	6364.2	7027.6	8007.4	8070.7	7442.5	7215.1	6940.8	6558.7	6118.1
62.5°	5274.2	5353.9	5979.8	6973.6	7892.5	8319.2	7791.7	7620.6	7365.1	6875.2	6589.2
65°	4664.7	4716.3	5335.1	6542.3	7667.5	8291.0	8080.1	7983.9	7735.5	7205.7	7055.7
67.5°	3996.7	4057.6	4573.3	5766.4	7226.8	8159.8	8352.0	8342.6	8059.0	7571.4	7393.2
70°	3227.8	3232.5	3659.1	4781.9	6458.0	7897.2	8689.5	8710.6	8368.4	7845.6	7407.3
72.5°	1544.8	1671.3	2372.2	3338.0	5248.4	7381.5	8909.9	9015.3	8562.9	7836.3	6608.0
75°	354.0	365.7	691.5	1586.9	3077.8	5665.7	8359.0	8555.9	8089.4	6776.7	4655.4
77.5°	128.9	136.0	194.6	464.1	1183.8	2927.8	5982.1	6270.4	5979.8	4381.1	2201.1
80°	86.7	84.4	100.8	206.3	543.8	829.8	3059.0	3230.1	2948.9	1495.5	527.4
82.5°	44.5	46.9	70.3	114.9	365.7	288.3	1022.0	1111.1	914.2	300.0	98.5
85°	21.1	21.1	39.8	72.7	154.7	100.8	227.4	274.3	246.1	131.3	32.8
87.5°	21.1	21.1	37.5	46.9	79.7	42.2	56.3	70.3	65.6	70.3	11.7
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°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1561.2	1558.8	1556.5	1561.2	1558.8	1563.5	1563.5	1568.2	1568.2	1563.5	1561.2
5°	1540.1	1535.4	1530.7	1530.7	1528.3	1533.0	1547.1	1558.8	1561.2	1554.1	1551.8
7.5°	1542.4	1542.4	1537.7	1528.3	1511.9	1511.9	1511.9	1526.0	1533.0	1528.3	1526.0
10°	1584.6	1586.9	1575.2	1554.1	1526.0	1500.2	1451.0	1378.3	1310.3	1291.6	1284.6
12.5°	1657.3	1659.6	1636.2	1598.7	1540.1	1387.7	1200.2	1026.7	893.1	855.6	848.6
15°	1744.0	1746.3	1704.1	1643.2	1465.1	1111.1	832.1	635.2	518.0	489.9	487.6
17.5°	1833.1	1828.4	1765.1	1647.9	1242.4	787.6	506.3	405.5	375.1	368.0	370.4
20°	1919.8	1905.7	1819.0	1561.2	956.4	515.7	370.4	346.9	339.9	335.2	335.2
22.5°	1999.5	1971.4	1863.5	1390.0	670.4	370.4	330.5	325.8	316.5	309.4	307.1
25°	2079.2	2039.4	1891.7	1167.4	450.1	323.5	311.8	302.4	290.7	281.3	278.9
27.5°	2175.3	2119.1	1877.6	886.1	337.5	300.0	290.7	276.6	260.2	246.1	241.4
30°	2266.7	2203.4	1797.9	611.8	288.3	276.6	262.5	241.4	220.3	203.9	199.2
32.5°	2381.6	2308.9	1654.9	400.8	250.8	241.4	227.4	201.6	173.5	154.7	150.0
35°	2545.7	2463.6	1472.1	281.3	220.3	203.9	185.2	157.1	126.6	112.5	110.2
37.5°	2775.4	2665.2	1242.4	227.4	194.6	171.1	143.0	114.9	93.8	82.0	79.7
40°	3056.7	2887.9	986.9	201.6	173.5	143.0	107.8	82.0	68.0	58.6	58.6
42.5°	3361.4	3096.5	726.7	185.2	152.4	117.2	79.7	58.6	49.2	44.5	42.2
45°	3675.5	3281.7	489.9	171.1	133.6	89.1	56.3	39.8	32.8	32.8	30.5
47.5°	4001.4	3406.0	316.5	154.7	112.5	65.6	37.5	28.1	23.4	23.4	23.4
50°	4324.8	3471.6	225.0	140.6	91.4	44.5	28.1	21.1	18.8	18.8	18.8
52.5°	4559.2	3429.4	180.5	121.9	70.3	32.8	21.1	16.4	14.1	14.1	14.1
55°	4763.2	3356.7	157.1	105.5	51.6	23.4	16.4	14.1	11.7	11.7	11.7
57.5°	4971.8	3263.0	140.6	89.1	37.5	16.4	11.7	9.4	9.4	9.4	9.4
60°	5161.7	3103.6	121.9	70.3	25.8	11.7	9.4	7.0	7.0	7.0	7.0
62.5°	5346.9	2967.6	105.5	53.9	18.8	9.4	4.7	4.7	2.3	2.3	2.3
65°	5452.3	2784.8	84.4	35.2	11.7	7.0	2.3	2.3	0.0	0.0	0.0
67.5°	5419.5	2566.8	58.6	21.1	7.0	4.7	2.3	0.0	0.0	0.0	0.0
70°	5192.1	2273.8	35.2	11.7	7.0	4.7	2.3	0.0	0.0	0.0	0.0
72.5°	4348.3	1683.1	21.1	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0
75°	2904.3	773.5	11.7	7.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1329.1	232.1	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	267.2	60.9	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.3	11.7	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°	4.7	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)