

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: P399266

Luminaire Tested: **ARCH-L-PA3-120-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11390 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

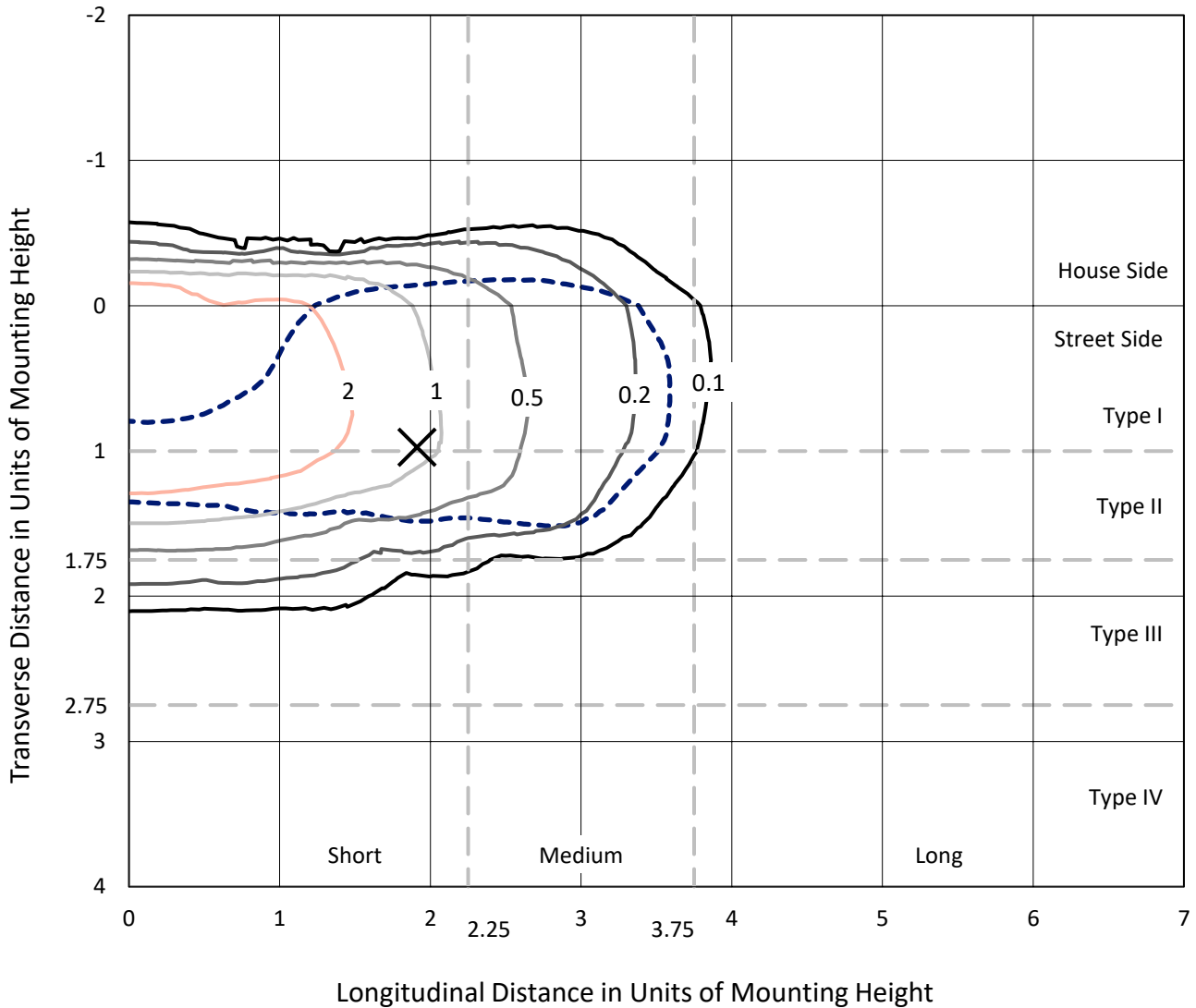
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

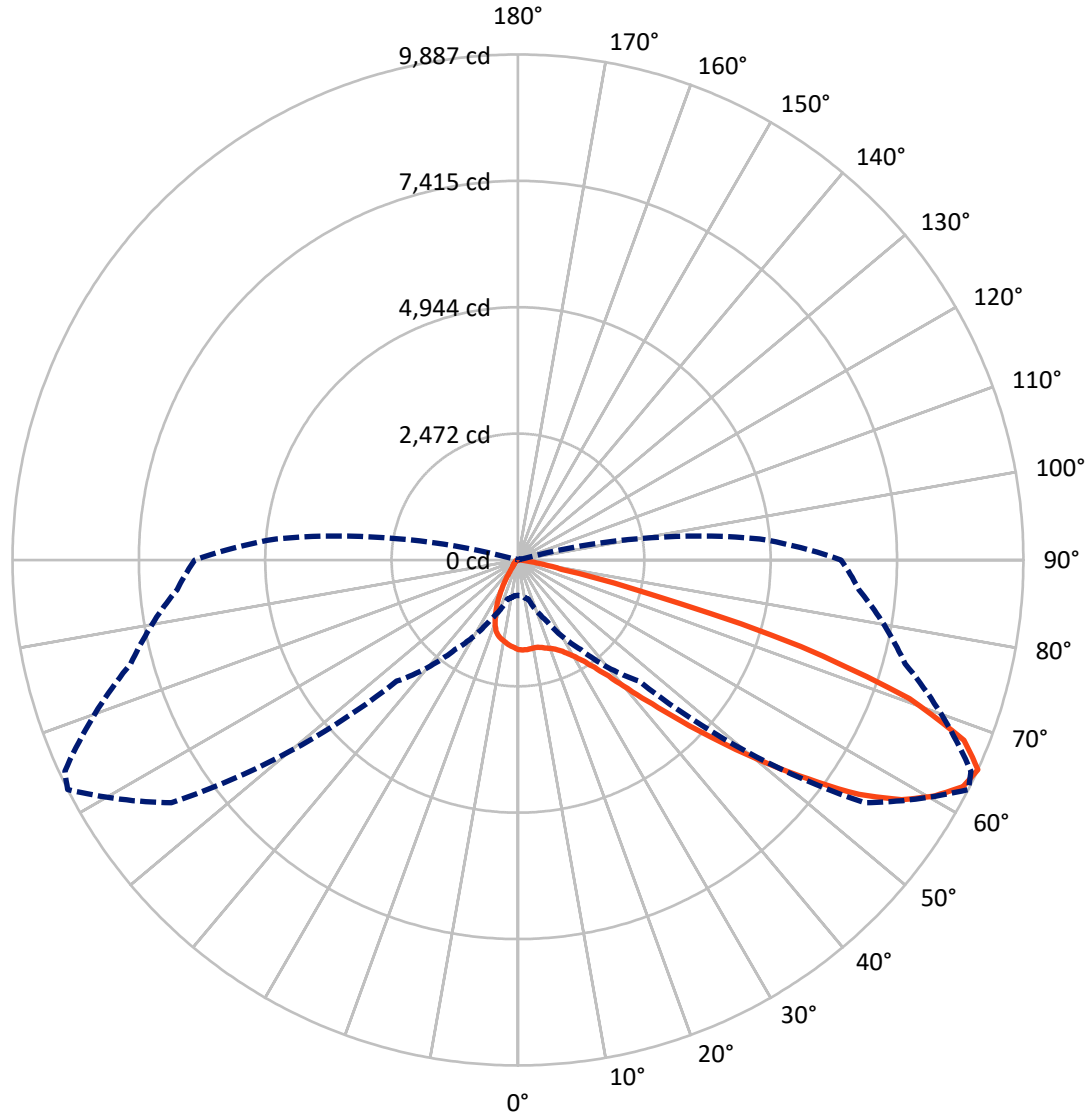
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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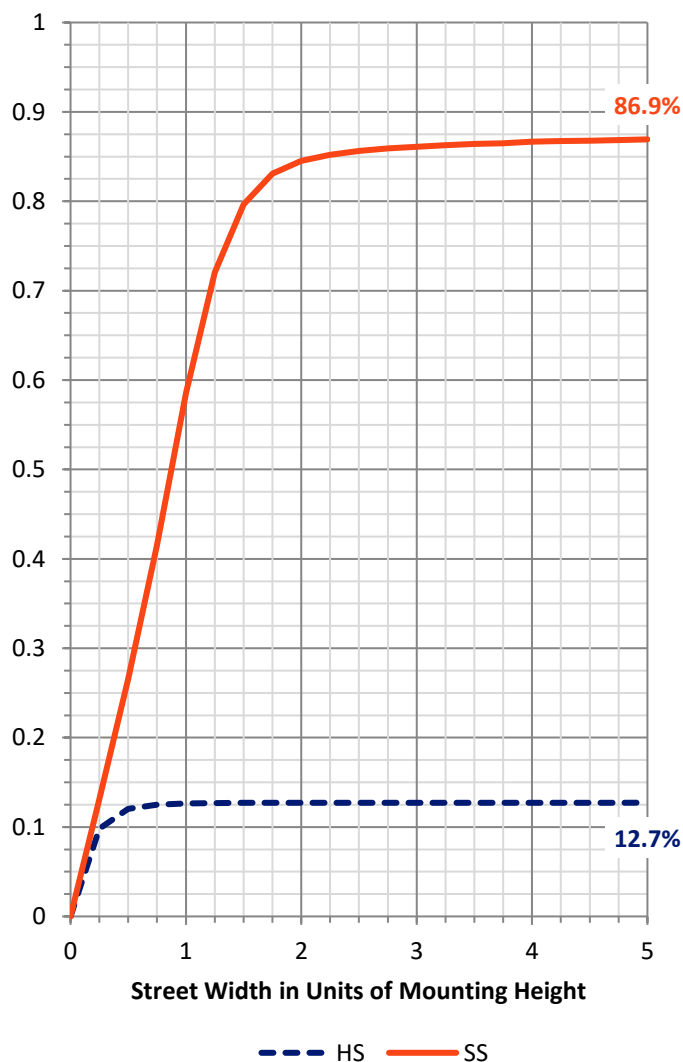
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.9	0.0	1465.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9924.1	0.0	9924.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	11390.0	0.0	11390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.4
10°-20°	395.0	3.5
20°-30°	585.4	5.1
30°-40°	1087.0	9.5
40°-50°	2302.7	20.2
50°-60°	3184.0	28.0
60°-70°	2548.9	22.4
70°-80°	1059.0	9.3
80°-90°	68.0	0.6
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°	11390.0	100.0
0°-180°	11390.0	100.0

Coefficient of Utilization



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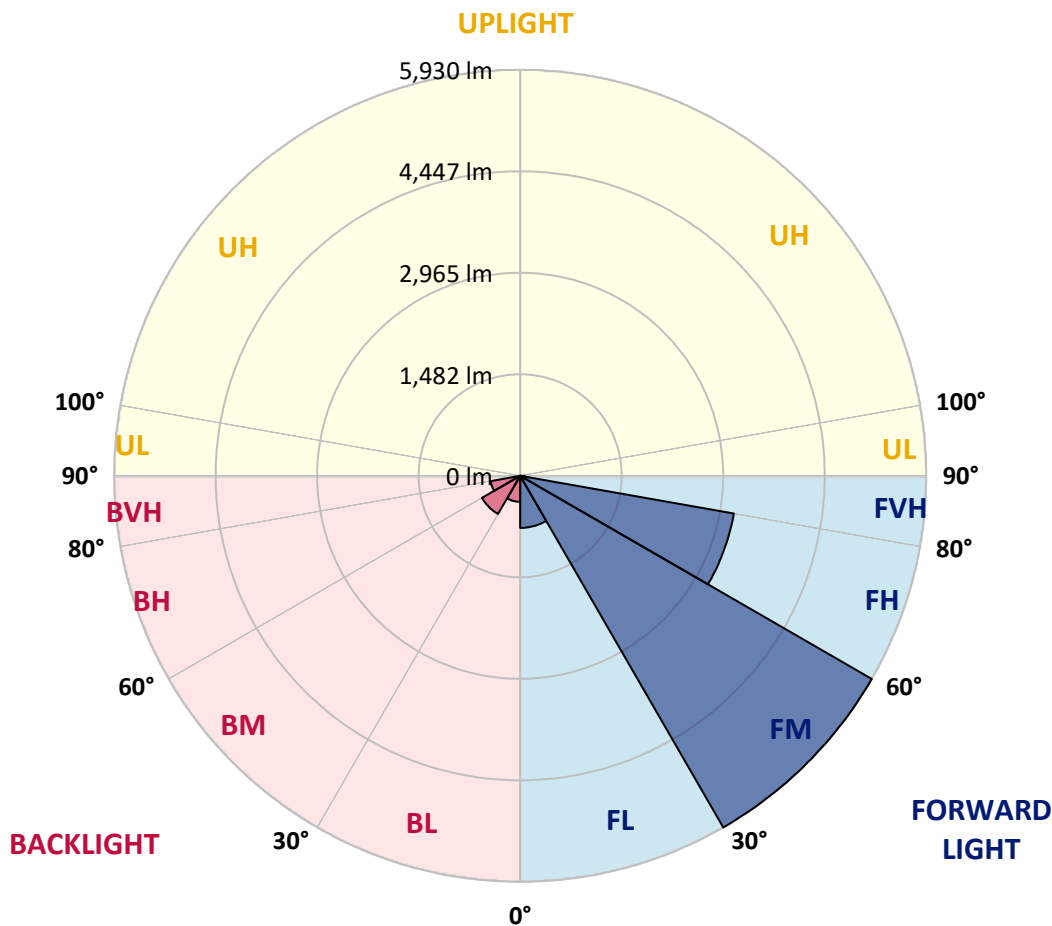
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.6	6.7			
FM (30°-60°)	5929.7	52.1			
FH (60°-80°)	3169.0	27.8			G2/5000
FVH (80°-90°)	64.9	0.6			G1/100
BL (0°-30°)	379.9	3.3	B1/500		
BM (30°-60°)	644.0	5.7	B1/1000		
BH (60°-80°)	438.9	3.9	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6
2.5°	1784.7	1780.4	1776.1	1774.0	1774.0	1771.8	1763.2	1761.1	1756.8	1752.5	1748.2
5°	1767.5	1761.1	1758.9	1761.1	1763.2	1767.5	1763.2	1763.2	1758.9	1754.6	1746.0
7.5°	1724.5	1720.2	1722.4	1728.8	1731.0	1746.0	1748.2	1754.6	1754.6	1750.3	1743.9
10°	1672.9	1670.8	1670.8	1681.5	1692.3	1713.8	1728.8	1746.0	1748.2	1748.2	1737.4
12.5°	1634.2	1632.1	1638.5	1651.4	1672.9	1700.9	1726.7	1752.5	1756.8	1758.9	1741.7
15°	1610.6	1610.6	1619.2	1645.0	1675.1	1713.8	1743.9	1778.3	1782.6	1780.4	1756.8
17.5°	1589.1	1591.2	1608.4	1651.4	1685.8	1737.4	1774.0	1812.7	1814.8	1812.7	1774.0
20°	1580.5	1584.8	1610.6	1666.5	1705.2	1763.2	1810.5	1849.2	1851.4	1842.8	1791.2
22.5°	1604.1	1606.3	1638.5	1698.7	1735.3	1799.8	1860.0	1896.6	1898.7	1885.8	1817.0
25°	1685.8	1685.8	1713.8	1765.4	1797.6	1862.2	1926.7	1969.7	1969.7	1954.6	1875.1
27.5°	1877.2	1860.0	1853.5	1868.6	1879.4	1948.2	2017.0	2070.7	2068.6	2047.1	1950.3
30°	2247.1	2204.0	2135.2	2057.8	2019.1	2066.4	2130.9	2199.7	2197.6	2163.2	2042.8
32.5°	2868.5	2806.1	2642.7	2438.4	2272.9	2219.1	2279.3	2354.6	2356.7	2315.9	2191.1
35°	3739.4	3640.4	3348.0	3064.2	2685.7	2481.4	2498.6	2580.3	2606.1	2584.6	2440.6
37.5°	4578.0	4487.7	4208.1	3814.6	3300.7	2883.5	2810.4	2881.4	2911.5	2911.5	2758.8
40°	5423.0	5317.7	5070.4	4674.7	4132.9	3511.4	3249.1	3307.1	3339.4	3345.8	3145.9
42.5°	6100.4	6031.6	5842.3	5534.8	5027.4	4612.4	3881.3	3849.0	3879.1	3855.5	3595.3
45°	6569.1	6515.4	6384.2	6268.1	6020.8	5812.2	4726.3	4509.2	4528.5	4446.8	4100.6
47.5°	6665.9	6605.7	6577.7	6739.0	6915.3	6966.9	5764.9	5294.0	5274.7	5094.0	4625.3
50°	6244.4	6250.9	6354.1	6814.3	7549.7	8014.1	6969.1	6179.9	6109.0	5706.9	5113.4
52.5°	5334.9	5438.1	5698.3	6444.4	7743.2	8775.3	8173.2	7119.6	7009.9	6302.5	5478.9
55°	4173.7	4307.0	4734.9	5592.9	7338.9	9115.1	9188.2	8095.8	7846.4	6749.8	5762.8
57.5°	3102.9	3143.7	3642.6	4425.3	6382.1	8781.8	9708.6	8848.4	8528.0	7106.7	6044.5
60°	1933.1	1958.9	2485.7	3369.5	4833.8	7549.7	9708.6	9366.7	9061.3	7427.1	6302.5
62.5°	1202.0	1210.6	1408.4	2309.4	3285.6	5599.4	9306.4	9768.8	9523.6	7657.2	6524.0
65°	692.4	701.0	793.5	1305.2	2137.4	3352.3	8278.6	9887.0	9777.4	7840.0	6696.0
67.5°	505.3	509.6	546.2	733.2	1397.7	1722.4	6218.6	9411.8	9549.4	7930.3	6691.7
70°	438.7	445.1	492.4	572.0	1008.5	1057.9	3165.2	8128.1	8513.0	7801.2	6491.7
72.5°	337.6	346.2	417.2	537.6	739.7	761.2	1146.1	5784.3	6367.0	6994.9	5943.4
75°	232.2	240.8	311.8	443.0	610.7	569.8	630.0	2662.1	3358.8	4691.9	4524.2
77.5°	148.4	150.5	195.7	322.5	526.8	404.3	432.2	868.7	1219.2	2122.3	2135.2
80°	98.9	101.1	120.4	208.6	361.2	374.2	266.6	402.1	440.8	619.3	430.1
82.5°	60.2	60.2	81.7	131.2	219.3	309.6	174.2	210.7	225.8	238.7	111.8
85°	23.7	23.7	49.5	86.0	137.6	144.1	109.7	122.6	129.0	139.8	51.6
87.5°	6.5	6.5	28.0	47.3	60.2	66.7	66.7	60.2	64.5	79.6	25.8
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°	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6
2.5°	1746.0	1739.6	1731.0	1722.4	1713.8	1707.3	1700.9	1700.9	1696.6	1690.1	1685.8
5°	1741.7	1731.0	1711.6	1696.6	1672.9	1655.7	1642.8	1632.1	1625.6	1610.6	1608.4
7.5°	1735.3	1722.4	1694.4	1664.3	1625.6	1595.5	1565.4	1543.9	1522.4	1505.2	1500.9
10°	1724.5	1709.5	1668.6	1625.6	1571.9	1516.0	1445.0	1363.3	1288.0	1245.0	1232.1
12.5°	1724.5	1705.2	1651.4	1593.4	1516.0	1378.3	1197.7	1017.1	877.3	815.0	797.8
15°	1735.3	1709.5	1638.5	1559.0	1414.9	1135.4	842.9	604.2	451.6	404.3	393.5
17.5°	1746.0	1709.5	1619.2	1511.7	1230.0	823.6	479.5	318.2	268.8	258.0	258.0
20°	1750.3	1705.2	1593.4	1423.5	982.7	511.8	286.0	238.7	219.3	212.9	212.9
22.5°	1767.5	1707.3	1574.0	1296.6	713.9	301.0	225.8	200.0	180.6	174.2	174.2
25°	1810.5	1733.1	1578.3	1135.4	458.0	227.9	191.4	165.6	146.2	137.6	137.6
27.5°	1879.4	1791.2	1602.0	948.3	288.1	195.7	161.3	133.3	118.3	109.7	109.7
30°	1956.8	1855.7	1612.7	733.2	215.0	165.6	131.2	105.4	94.6	88.2	86.0
32.5°	2092.2	1967.5	1604.1	503.2	176.3	139.8	105.4	83.9	75.3	73.1	73.1
35°	2309.4	2163.2	1586.9	316.1	146.2	111.8	83.9	68.8	62.4	60.2	58.1
37.5°	2604.0	2449.2	1535.3	208.6	120.4	88.2	68.8	58.1	51.6	49.5	49.5
40°	2963.1	2776.0	1436.4	159.1	103.2	71.0	58.1	49.5	45.2	43.0	43.0
42.5°	3373.8	3139.4	1279.4	137.6	86.0	60.2	49.5	40.9	38.7	36.6	36.6
45°	3823.2	3520.0	1062.2	122.6	73.1	49.5	40.9	36.6	32.3	32.3	30.1
47.5°	4300.6	3902.8	817.1	107.5	62.4	43.0	36.6	30.1	28.0	25.8	25.8
50°	4760.7	4244.7	574.1	92.5	51.6	36.6	30.1	25.8	23.7	21.5	21.5
52.5°	5085.4	4451.1	406.4	79.6	43.0	32.3	23.7	19.4	17.2	17.2	17.2
55°	5345.6	4580.1	283.8	66.7	36.6	28.0	19.4	15.1	15.1	12.9	12.9
57.5°	5590.8	4664.0	208.6	55.9	30.1	21.5	15.1	10.8	10.8	8.6	8.6
60°	5844.5	4709.1	159.1	45.2	25.8	17.2	10.8	8.6	6.5	6.5	6.5
62.5°	6100.4	4737.1	122.6	36.6	21.5	12.9	8.6	6.5	4.3	2.2	2.2
65°	6324.0	4745.7	94.6	28.0	17.2	8.6	6.5	2.2	0.0	0.0	0.0
67.5°	6390.7	4646.8	73.1	21.5	12.9	6.5	4.3	0.0	0.0	0.0	0.0
70°	6210.0	4384.4	55.9	17.2	10.8	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	5511.2	3677.0	43.0	10.8	8.6	4.3	2.2	0.0	0.0	0.0	0.0
75°	3943.6	1961.1	30.1	8.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1814.8	759.1	21.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	354.8	189.2	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.7	32.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	10.8	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	4.3	2.2	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)