

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: P399203

Luminaire Tested: **ARCH-L-PA3-110-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399203
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-PA3-110-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA 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: 11508 lumens
Efficiency: N/A
Efficacy: 101.8 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

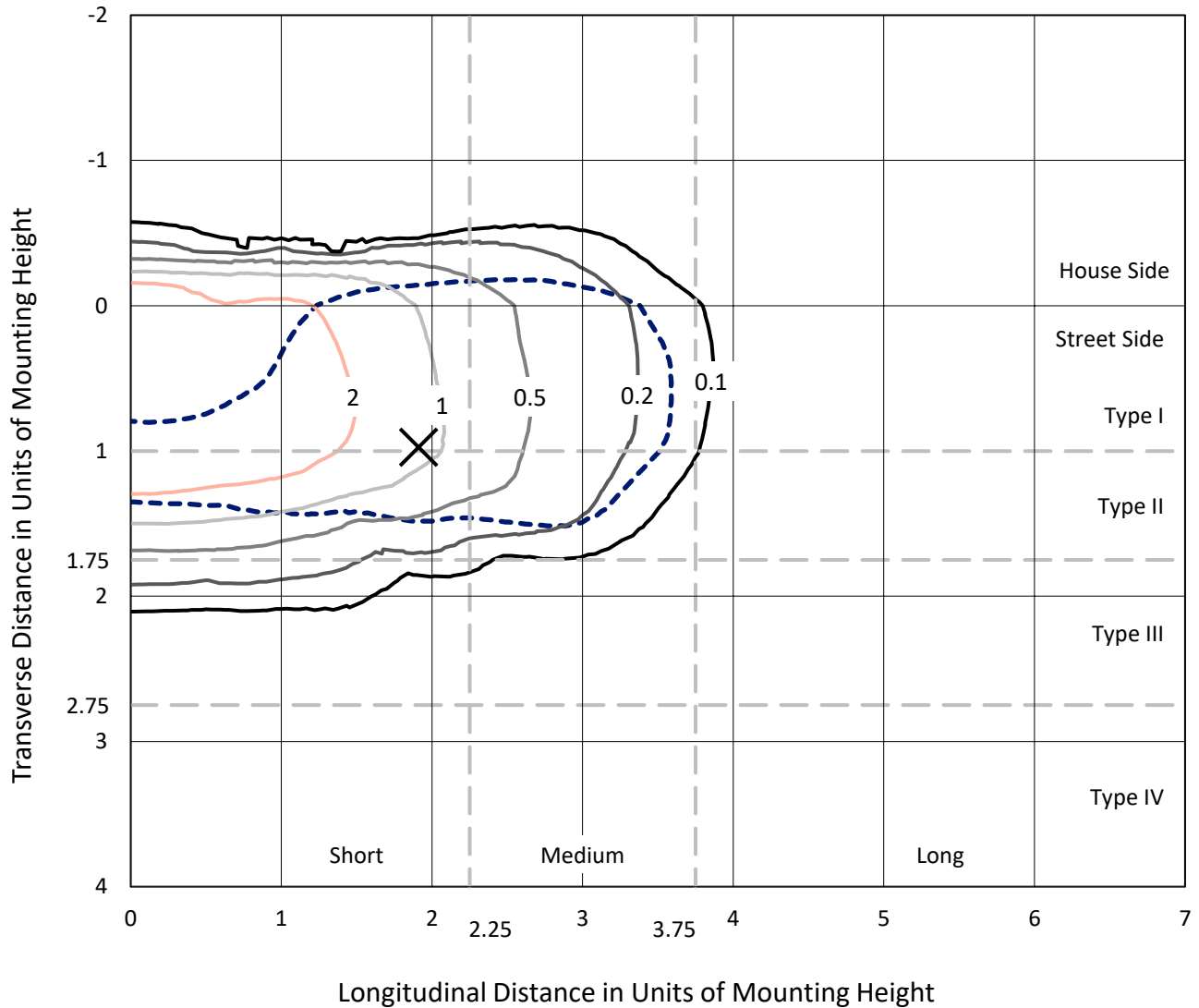
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

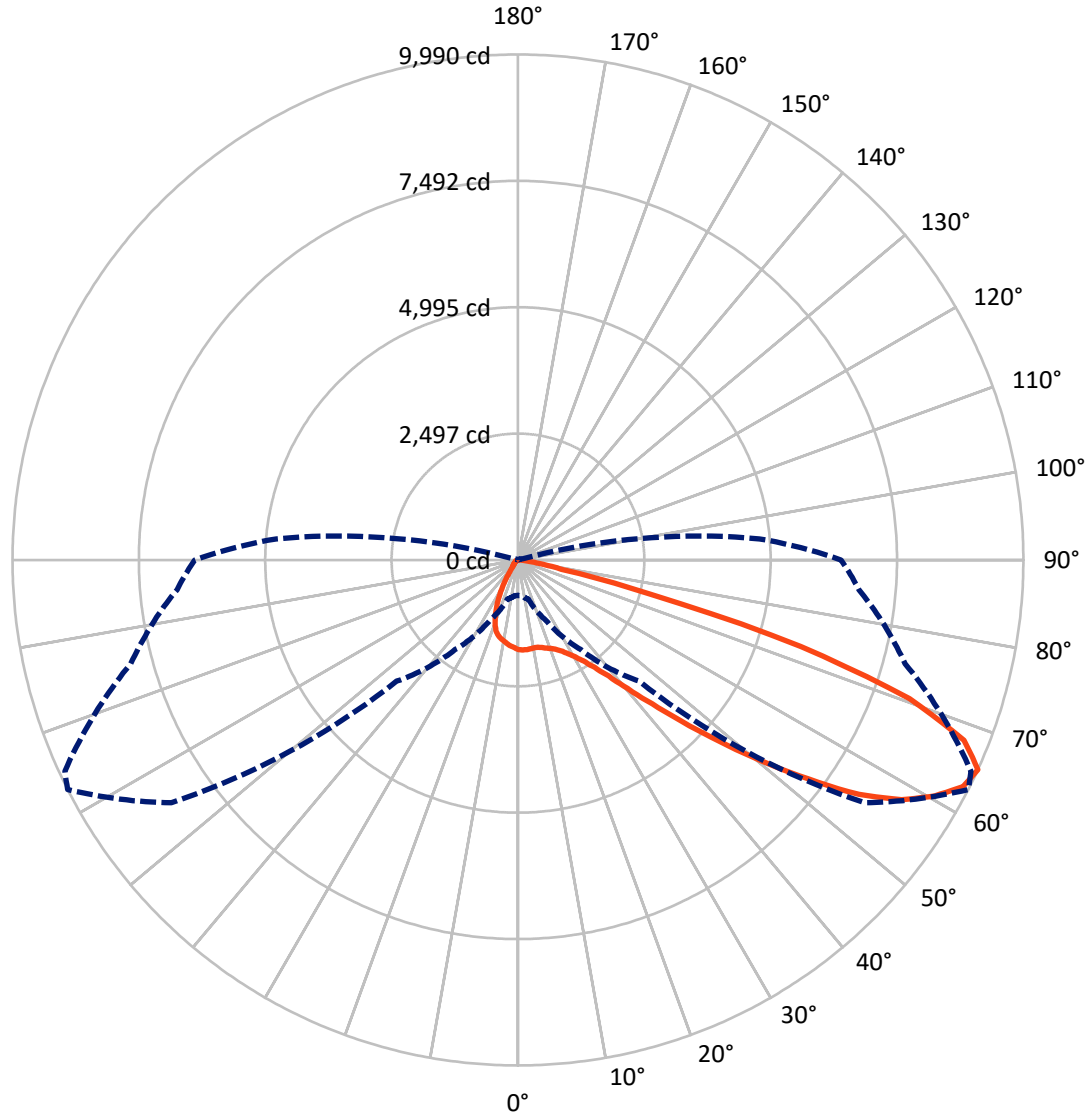
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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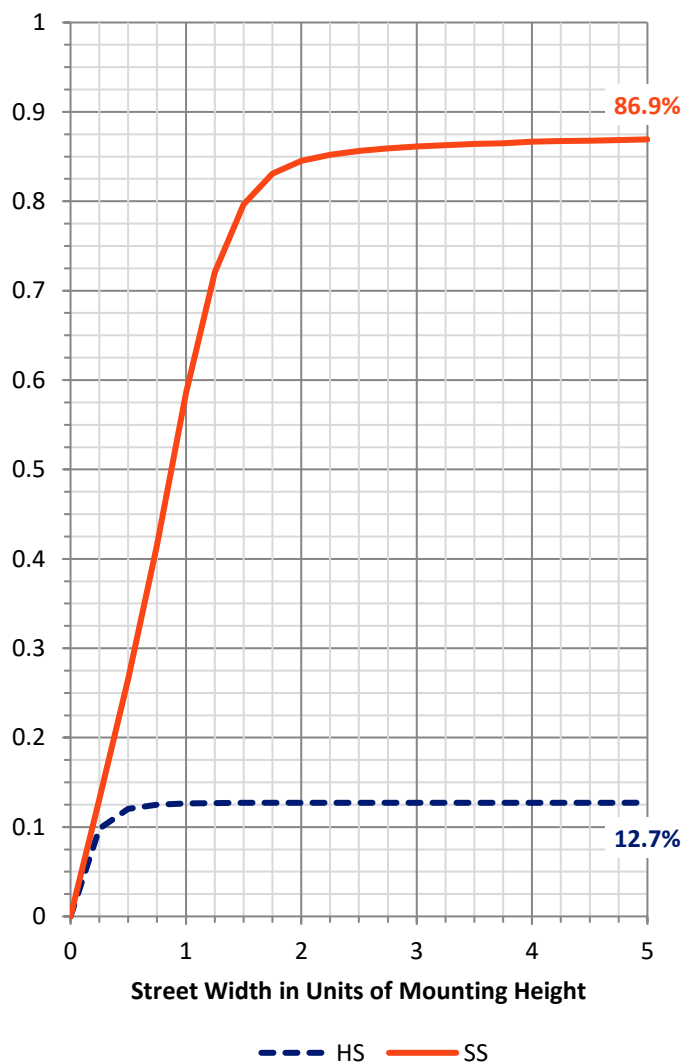
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1481.1	0.0	1481.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10026.9	0.0	10026.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	11508.0	0.0	11508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.4
10°-20°	399.1	3.5
20°-30°	591.5	5.1
30°-40°	1098.2	9.5
40°-50°	2326.5	20.2
50°-60°	3217.0	28.0
60°-70°	2575.3	22.4
70°-80°	1070.0	9.3
80°-90°	68.7	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°	11508.0	100.0
0°-180°	11508.0	100.0

Coefficient of Utilization

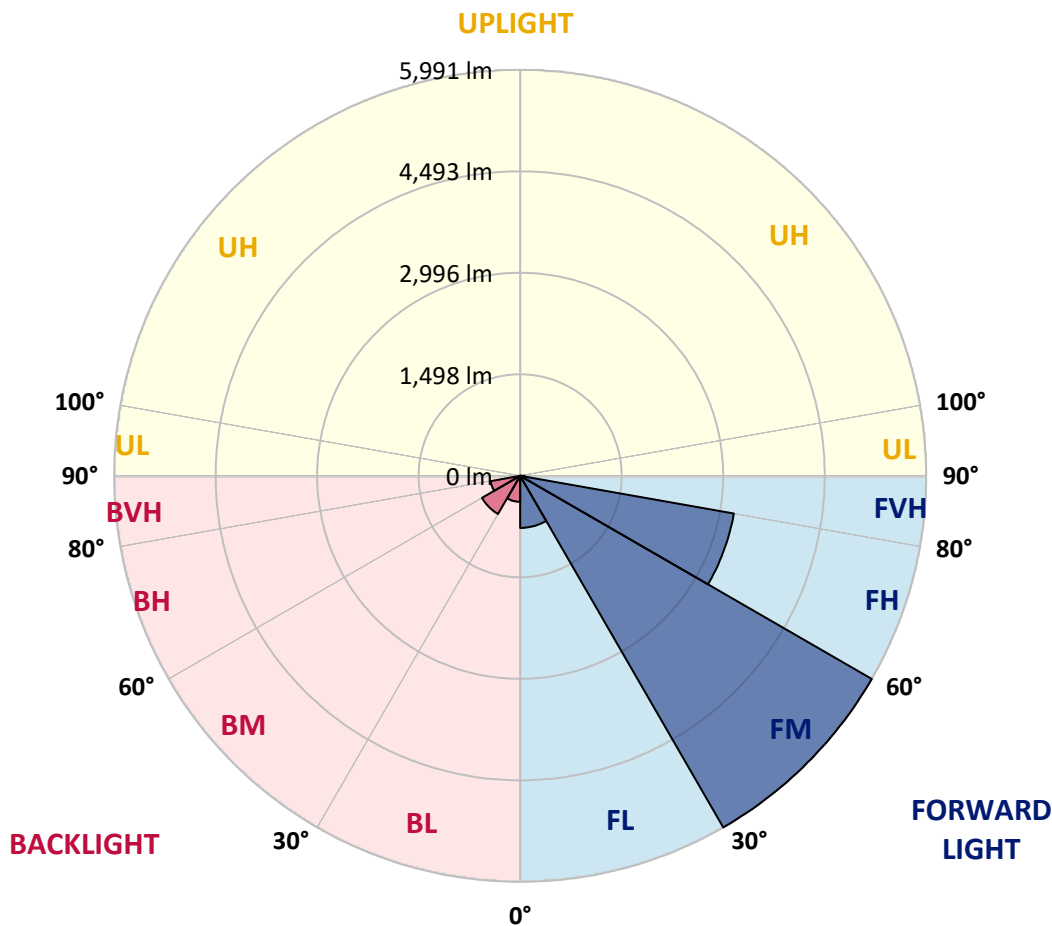


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.5	6.7			
FM (30°-60°)	5991.1	52.1			
FH (60°-80°)	3201.8	27.8			G2/5000
FVH (80°-90°)	65.6	0.6			G1/100
BL (0°-30°)	383.8	3.3	B1/500		
BM (30°-60°)	650.6	5.7	B1/1000		
BH (60°-80°)	443.5	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°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	1803.2	1798.9	1794.5	1792.4	1792.4	1790.2	1781.5	1779.3	1775.0	1770.6	1766.3
5°	1785.8	1779.3	1777.2	1779.3	1781.5	1785.8	1781.5	1781.5	1777.2	1772.8	1764.1
7.5°	1742.4	1738.1	1740.2	1746.7	1748.9	1764.1	1766.3	1772.8	1772.8	1768.5	1762.0
10°	1690.3	1688.1	1688.1	1698.9	1709.8	1731.5	1746.7	1764.1	1766.3	1766.3	1755.4
12.5°	1651.1	1649.0	1655.5	1668.5	1690.3	1718.5	1744.6	1770.6	1775.0	1777.2	1759.8
15°	1627.3	1627.3	1635.9	1662.0	1692.4	1731.5	1762.0	1796.7	1801.1	1798.9	1775.0
17.5°	1605.5	1607.7	1625.1	1668.5	1703.3	1755.4	1792.4	1831.5	1833.6	1831.5	1792.4
20°	1596.8	1601.2	1627.3	1683.7	1722.8	1781.5	1829.3	1868.4	1870.6	1861.9	1809.7
22.5°	1620.7	1622.9	1655.5	1716.3	1753.3	1818.4	1879.3	1916.2	1918.4	1905.3	1835.8
25°	1703.3	1703.3	1731.5	1783.7	1816.3	1881.4	1946.6	1990.1	1990.1	1974.9	1894.5
27.5°	1896.6	1879.3	1872.8	1888.0	1898.8	1968.3	2037.9	2092.2	2090.0	2068.3	1970.5
30°	2270.3	2226.9	2157.4	2079.1	2040.0	2087.8	2153.0	2222.5	2220.4	2185.6	2063.9
32.5°	2898.2	2835.2	2670.1	2463.7	2296.4	2242.1	2302.9	2379.0	2381.1	2339.9	2213.8
35°	3778.1	3678.2	3382.7	3095.9	2713.5	2507.1	2524.5	2607.1	2633.1	2611.4	2465.9
37.5°	4625.4	4534.1	4251.7	3854.1	3334.9	2913.4	2839.5	2911.2	2941.7	2941.7	2787.4
40°	5479.2	5372.8	5122.9	4723.2	4175.7	3547.8	3282.7	3341.4	3374.0	3380.5	3178.5
42.5°	6163.6	6094.0	5902.9	5592.2	5079.5	4660.2	3921.5	3888.9	3919.3	3895.4	3632.5
45°	6637.2	6582.9	6450.3	6333.0	6083.2	5872.4	4775.3	4555.9	4575.4	4492.9	4143.1
47.5°	6735.0	6674.1	6645.9	6808.8	6987.0	7039.1	5824.6	5348.9	5329.3	5146.8	4673.2
50°	6309.1	6315.6	6419.9	6884.9	7627.9	8097.2	7041.3	6244.0	6172.3	5766.0	5166.4
52.5°	5390.1	5494.4	5757.3	6511.2	7823.4	8866.2	8257.9	7193.4	7082.6	6367.8	5535.7
55°	4216.9	4351.6	4784.0	5650.8	7415.0	9209.5	9283.4	8179.7	7927.7	6819.7	5822.5
57.5°	3135.0	3176.3	3680.3	4471.1	6448.2	8872.8	9809.1	8940.1	8616.4	7180.3	6107.1
60°	1953.1	1979.2	2511.5	3404.4	4883.9	7627.9	9809.1	9463.7	9155.2	7504.0	6367.8
62.5°	1214.5	1223.2	1423.0	2333.3	3319.7	5657.4	9402.9	9870.0	9622.3	7736.5	6591.6
65°	699.6	708.3	801.7	1318.7	2159.5	3387.0	8364.4	9989.5	9878.7	7921.2	6765.4
67.5°	510.6	514.9	551.8	740.8	1412.2	1740.2	6283.1	9509.3	9648.4	8012.4	6761.0
70°	443.2	449.7	497.5	577.9	1018.9	1068.9	3198.0	8212.3	8601.2	7882.1	6559.0
72.5°	341.1	349.8	421.5	543.1	747.4	769.1	1158.0	5844.2	6433.0	7067.4	6005.0
75°	234.6	243.3	315.0	447.5	617.0	575.7	636.6	2689.6	3393.5	4740.5	4571.1
77.5°	149.9	152.1	197.7	325.9	532.3	408.4	436.7	877.7	1231.8	2144.3	2157.4
80°	99.9	102.1	121.7	210.7	365.0	378.0	269.4	406.3	445.4	625.7	434.5
82.5°	60.8	60.8	82.6	132.5	221.6	312.8	176.0	212.9	228.1	241.2	113.0
85°	23.9	23.9	50.0	86.9	139.0	145.6	110.8	123.8	130.4	141.2	52.1
87.5°	6.5	6.5	28.2	47.8	60.8	67.3	67.3	60.8	65.2	80.4	26.1
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°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	1764.1	1757.6	1748.9	1740.2	1731.5	1725.0	1718.5	1718.5	1714.2	1707.6	1703.3
5°	1759.8	1748.9	1729.4	1714.2	1690.3	1672.9	1659.8	1649.0	1642.5	1627.3	1625.1
7.5°	1753.3	1740.2	1712.0	1681.6	1642.5	1612.0	1581.6	1559.9	1538.2	1520.8	1516.5
10°	1742.4	1727.2	1685.9	1642.5	1588.1	1531.7	1460.0	1377.4	1301.4	1257.9	1244.9
12.5°	1742.4	1722.8	1668.5	1609.9	1531.7	1392.6	1210.1	1027.6	886.4	823.4	806.0
15°	1753.3	1727.2	1655.5	1575.1	1429.5	1147.1	851.6	610.5	456.2	408.4	397.6
17.5°	1764.1	1727.2	1635.9	1527.3	1242.7	832.1	484.5	321.5	271.6	260.7	260.7
20°	1768.5	1722.8	1609.9	1438.2	992.9	517.1	289.0	241.2	221.6	215.1	215.1
22.5°	1785.8	1725.0	1590.3	1310.1	721.3	304.2	228.1	202.0	182.5	176.0	176.0
25°	1829.3	1751.1	1594.7	1147.1	462.8	230.3	193.4	167.3	147.7	139.0	139.0
27.5°	1898.8	1809.7	1618.6	958.1	291.1	197.7	162.9	134.7	119.5	110.8	110.8
30°	1977.0	1874.9	1629.4	740.8	217.3	167.3	132.5	106.5	95.6	89.1	86.9
32.5°	2113.9	1987.9	1620.7	508.4	178.2	141.2	106.5	84.7	76.0	73.9	73.9
35°	2333.3	2185.6	1603.4	319.4	147.7	113.0	84.7	69.5	63.0	60.8	58.7
37.5°	2631.0	2474.6	1551.2	210.7	121.7	89.1	69.5	58.7	52.1	50.0	50.0
40°	2993.8	2804.8	1451.3	160.8	104.3	71.7	58.7	50.0	45.6	43.5	43.5
42.5°	3408.8	3171.9	1292.7	139.0	86.9	60.8	50.0	41.3	39.1	36.9	36.9
45°	3862.8	3556.5	1073.2	123.8	73.9	50.0	41.3	36.9	32.6	32.6	30.4
47.5°	4345.1	3943.2	825.6	108.6	63.0	43.5	36.9	30.4	28.2	26.1	26.1
50°	4810.1	4288.6	580.1	93.4	52.1	36.9	30.4	26.1	23.9	21.7	21.7
52.5°	5138.1	4497.2	410.6	80.4	43.5	32.6	23.9	19.6	17.4	17.4	17.4
55°	5401.0	4627.6	286.8	67.3	36.9	28.2	19.6	15.2	15.2	13.0	13.0
57.5°	5648.7	4712.3	210.7	56.5	30.4	21.7	15.2	10.9	10.9	8.7	8.7
60°	5905.0	4757.9	160.8	45.6	26.1	17.4	10.9	8.7	6.5	6.5	6.5
62.5°	6163.6	4786.2	123.8	36.9	21.7	13.0	8.7	6.5	4.3	2.2	2.2
65°	6389.5	4794.9	95.6	28.2	17.4	8.7	6.5	2.2	0.0	0.0	0.0
67.5°	6456.9	4694.9	73.9	21.7	13.0	6.5	4.3	0.0	0.0	0.0	0.0
70°	6274.4	4429.9	56.5	17.4	10.9	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	5568.3	3715.1	43.5	10.9	8.7	4.3	2.2	0.0	0.0	0.0	0.0
75°	3984.5	1981.4	30.4	8.7	6.5	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1833.6	766.9	21.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	358.5	191.2	8.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.6	32.6	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.2	10.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	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)