

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: P399275

Luminaire Tested: **ARCH-L-PA3-120-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399275
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-PA3-120-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 12403 lumens
Efficiency: N/A
Efficacy: 100.8 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

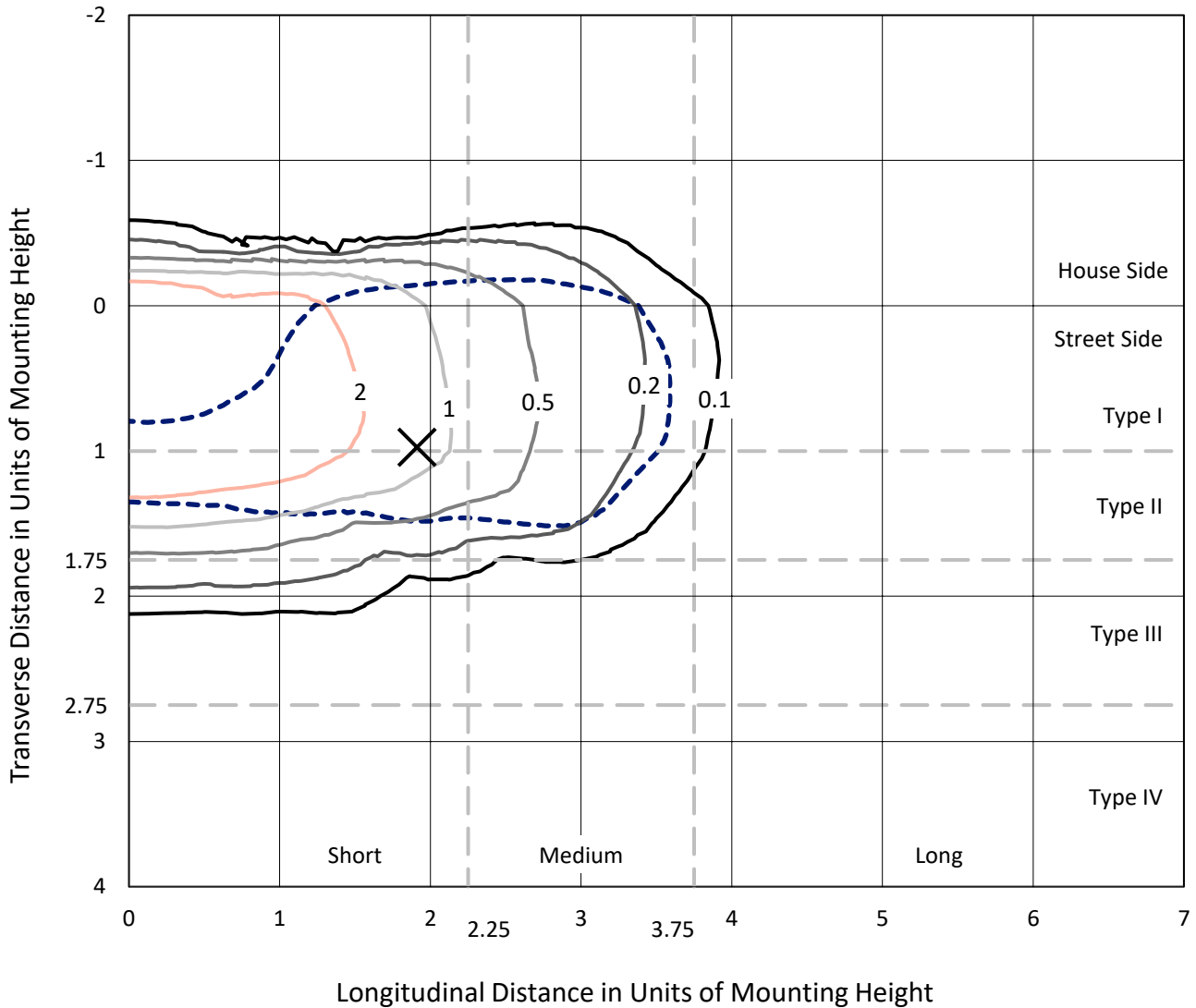
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

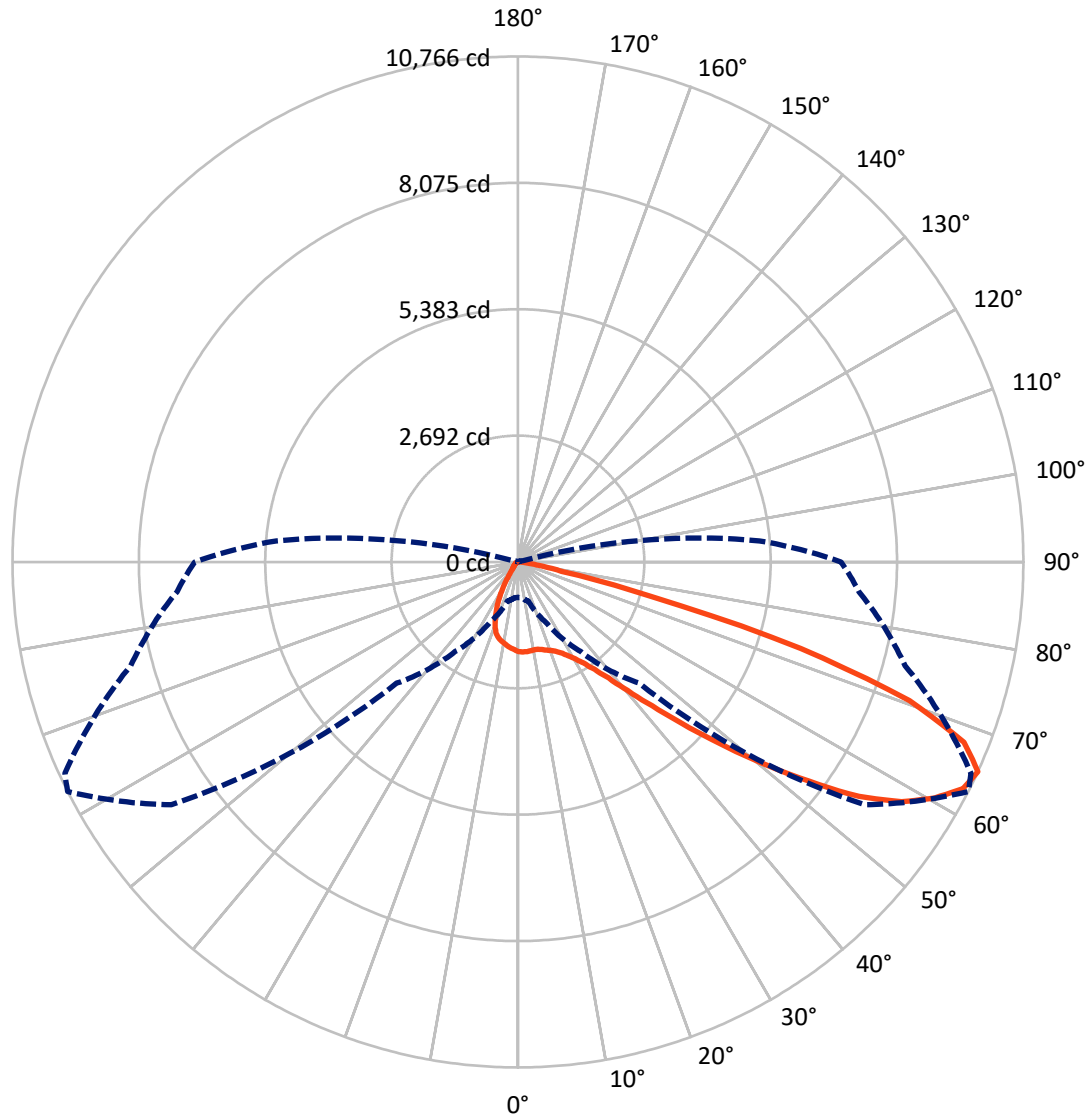
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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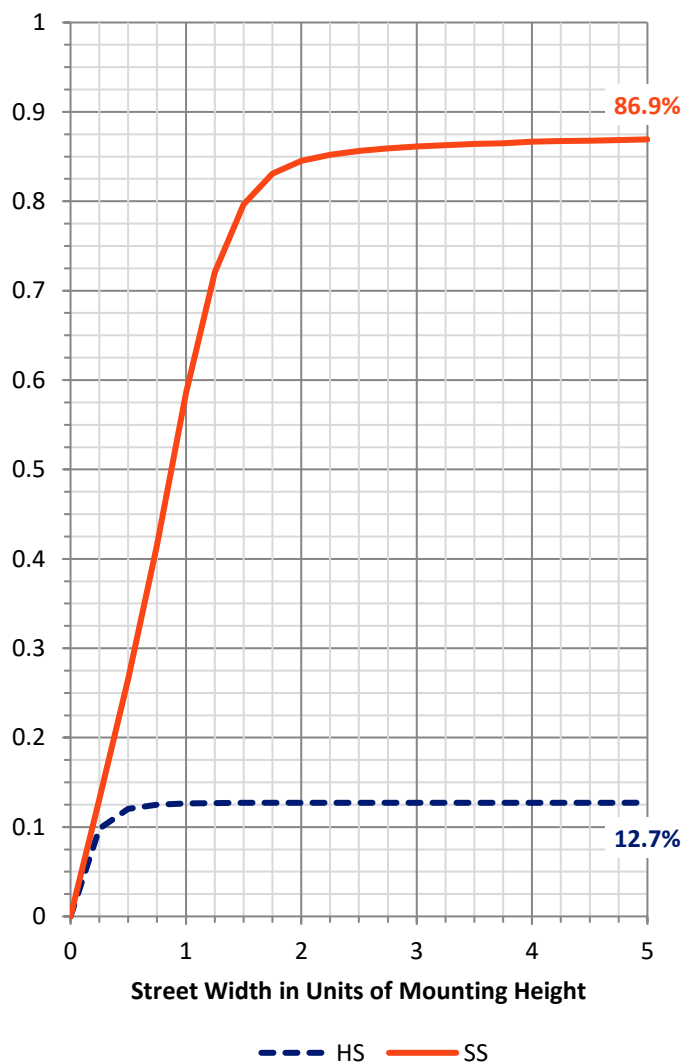
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1596.2	0.0	1596.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10806.8	0.0	10806.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	12403.0	0.0	12403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.4
10°-20°	430.1	3.5
20°-30°	637.5	5.1
30°-40°	1183.6	9.5
40°-50°	2507.5	20.2
50°-60°	3467.2	28.0
60°-70°	2775.6	22.4
70°-80°	1153.2	9.3
80°-90°	74.0	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°	12403.0	100.0
0°-180°	12403.0	100.0

Coefficient of Utilization

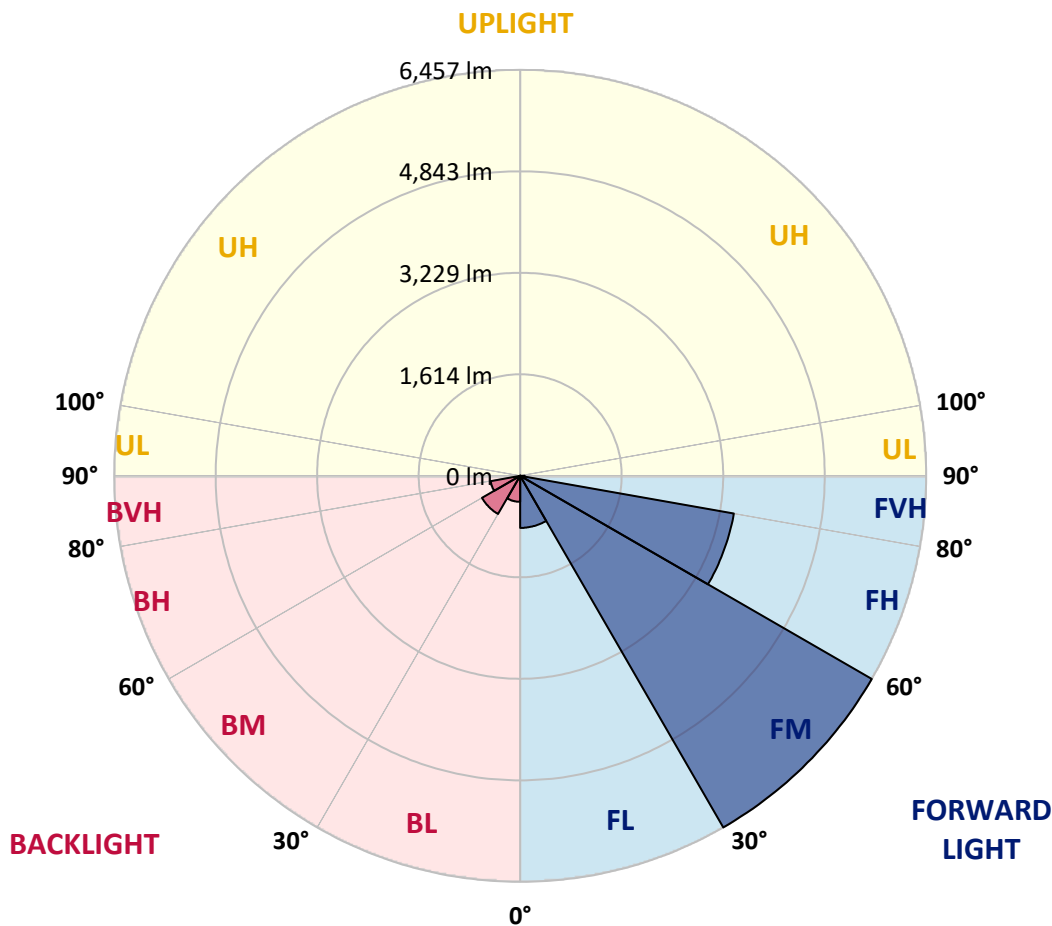


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.2	6.7			
FM (30°-60°)	6457.1	52.1			
FH (60°-80°)	3450.8	27.8			G2/5000
FVH (80°-90°)	70.7	0.6			G1/100
BL (0°-30°)	413.7	3.3	B1/500		
BM (30°-60°)	701.2	5.7	B1/1000		
BH (60°-80°)	478.0	3.9	B1/500		G1/500
BVH (80°-90°)	3.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7
2.5°	1943.5	1938.8	1934.1	1931.8	1931.8	1929.4	1920.1	1917.7	1913.0	1908.3	1903.7
5°	1924.7	1917.7	1915.4	1917.7	1920.1	1924.7	1920.1	1920.1	1915.4	1910.7	1901.3
7.5°	1877.9	1873.2	1875.6	1882.6	1884.9	1901.3	1903.7	1910.7	1910.7	1906.0	1899.0
10°	1821.7	1819.4	1819.4	1831.1	1842.8	1866.2	1882.6	1901.3	1903.7	1903.7	1892.0
12.5°	1779.6	1777.2	1784.2	1798.3	1821.7	1852.2	1880.2	1908.3	1913.0	1915.4	1896.6
15°	1753.8	1753.8	1763.2	1791.3	1824.1	1866.2	1899.0	1936.4	1941.1	1938.8	1913.0
17.5°	1730.4	1732.7	1751.5	1798.3	1835.8	1892.0	1931.8	1973.9	1976.3	1973.9	1931.8
20°	1721.0	1725.7	1753.8	1814.7	1856.8	1920.1	1971.6	2013.7	2016.1	2006.7	1950.5
22.5°	1746.8	1749.1	1784.2	1849.8	1889.6	1959.9	2025.4	2065.2	2067.6	2053.5	1978.6
25°	1835.8	1835.8	1866.2	1922.4	1957.5	2027.8	2098.0	2144.8	2144.8	2128.5	2041.8
27.5°	2044.2	2025.4	2018.4	2034.8	2046.5	2121.4	2196.4	2254.9	2252.6	2229.1	2123.8
30°	2446.9	2400.1	2325.1	2240.8	2198.7	2250.2	2320.5	2395.4	2393.0	2355.6	2224.5
32.5°	3123.6	3055.7	2877.7	2655.3	2475.0	2416.5	2482.0	2564.0	2566.3	2521.8	2386.0
35°	4071.9	3964.2	3645.8	3336.7	2924.6	2702.1	2720.9	2809.8	2837.9	2814.5	2657.6
37.5°	4985.1	4886.8	4582.4	4153.9	3594.2	3140.0	3060.4	3137.7	3170.4	3170.4	3004.2
40°	5905.3	5790.6	5521.3	5090.5	4500.4	3823.7	3538.1	3601.3	3636.4	3643.4	3425.7
42.5°	6642.9	6568.0	6361.9	6027.1	5474.5	5022.6	4226.5	4191.3	4224.1	4198.4	3915.0
45°	7153.4	7094.8	6952.0	6825.6	6556.3	6329.2	5146.7	4910.2	4931.3	4842.3	4465.3
47.5°	7258.7	7193.2	7162.7	7338.4	7530.4	7586.6	6277.6	5764.8	5743.8	5547.1	5036.6
50°	6799.8	6806.8	6919.2	7420.3	8221.1	8726.9	7588.9	6729.6	6652.3	6214.4	5568.2
52.5°	5809.3	5921.7	6205.1	7017.6	8431.9	9555.8	8900.2	7752.8	7633.4	6863.0	5966.2
55°	4544.9	4690.1	5156.0	6090.3	7991.6	9925.7	10005.4	8815.9	8544.2	7350.1	6275.3
57.5°	3378.8	3423.3	3966.6	4818.9	6949.7	9562.8	10572.0	9635.4	9286.5	7738.8	6582.0
60°	2105.0	2133.1	2706.8	3669.2	5263.8	8221.1	10572.0	10199.7	9867.2	8087.6	6863.0
62.5°	1308.9	1318.3	1533.7	2514.8	3577.9	6097.3	10134.1	10637.6	10370.6	8338.2	7104.2
65°	754.0	763.3	864.0	1421.3	2327.5	3650.4	9014.9	10766.4	10646.9	8537.2	7291.5
67.5°	550.3	554.9	594.7	798.5	1522.0	1875.6	6771.7	10248.9	10398.7	8635.6	7286.8
70°	477.7	484.7	536.2	622.8	1098.2	1152.0	3446.7	8851.0	9270.1	8495.1	7069.1
72.5°	367.6	377.0	454.3	585.4	805.5	828.9	1248.0	6298.7	6933.3	7617.0	6472.0
75°	252.9	262.3	339.5	482.4	665.0	620.5	686.1	2898.8	3657.5	5109.2	4926.6
77.5°	161.6	163.9	213.1	351.2	573.7	440.2	470.6	946.0	1327.6	2311.1	2325.1
80°	107.7	110.1	131.1	227.1	393.4	407.4	290.3	437.9	480.0	674.4	468.3
82.5°	65.6	65.6	89.0	142.8	238.8	337.2	189.7	229.5	245.9	259.9	121.8
85°	25.8	25.8	53.9	93.7	149.9	156.9	119.4	133.5	140.5	152.2	56.2
87.5°	7.0	7.0	30.4	51.5	65.6	72.6	72.6	65.6	70.2	86.6	28.1
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°	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7	1910.7
2.5°	1901.3	1894.3	1884.9	1875.6	1866.2	1859.2	1852.2	1852.2	1847.5	1840.4	1835.8
5°	1896.6	1884.9	1863.9	1847.5	1821.7	1803.0	1788.9	1777.2	1770.2	1753.8	1751.5
7.5°	1889.6	1875.6	1845.1	1812.3	1770.2	1737.4	1704.6	1681.2	1657.8	1639.1	1634.4
10°	1877.9	1861.5	1817.0	1770.2	1711.7	1650.8	1573.5	1484.5	1402.6	1355.7	1341.7
12.5°	1877.9	1856.8	1798.3	1735.1	1650.8	1500.9	1304.2	1107.5	955.3	887.4	868.7
15°	1889.6	1861.5	1784.2	1697.6	1540.7	1236.3	917.9	658.0	491.7	440.2	428.5
17.5°	1901.3	1861.5	1763.2	1646.1	1339.4	896.8	522.2	346.5	292.7	281.0	281.0
20°	1906.0	1856.8	1735.1	1550.1	1070.1	557.3	311.4	259.9	238.8	231.8	231.8
22.5°	1924.7	1859.2	1714.0	1411.9	777.4	327.8	245.9	217.8	196.7	189.7	189.7
25°	1971.6	1887.3	1718.7	1236.3	498.7	248.2	208.4	180.3	159.2	149.9	149.9
27.5°	2046.5	1950.5	1744.4	1032.6	313.8	213.1	175.6	145.2	128.8	119.4	119.4
30°	2130.8	2020.7	1756.1	798.5	234.2	180.3	142.8	114.7	103.0	96.0	93.7
32.5°	2278.3	2142.5	1746.8	547.9	192.0	152.2	114.7	91.3	82.0	79.6	79.6
35°	2514.8	2355.6	1728.0	344.2	159.2	121.8	91.3	74.9	67.9	65.6	63.2
37.5°	2835.6	2667.0	1671.9	227.1	131.1	96.0	74.9	63.2	56.2	53.9	53.9
40°	3226.6	3022.9	1564.1	173.3	112.4	77.3	63.2	53.9	49.2	46.8	46.8
42.5°	3673.9	3418.6	1393.2	149.9	93.7	65.6	53.9	44.5	42.1	39.8	39.8
45°	4163.2	3833.1	1156.7	133.5	79.6	53.9	44.5	39.8	35.1	35.1	32.8
47.5°	4683.1	4249.9	889.8	117.1	67.9	46.8	39.8	32.8	30.4	28.1	28.1
50°	5184.1	4622.2	625.2	100.7	56.2	39.8	32.8	28.1	25.8	23.4	23.4
52.5°	5537.7	4847.0	442.5	86.6	46.8	35.1	25.8	21.1	18.7	18.7	18.7
55°	5821.0	4987.5	309.1	72.6	39.8	30.4	21.1	16.4	16.4	14.0	14.0
57.5°	6088.0	5078.8	227.1	60.9	32.8	23.4	16.4	11.7	11.7	9.4	9.4
60°	6364.3	5128.0	173.3	49.2	28.1	18.7	11.7	9.4	7.0	7.0	7.0
62.5°	6642.9	5158.4	133.5	39.8	23.4	14.0	9.4	7.0	4.7	2.3	2.3
65°	6886.4	5167.8	103.0	30.4	18.7	9.4	7.0	2.3	0.0	0.0	0.0
67.5°	6959.0	5060.0	79.6	23.4	14.0	7.0	4.7	0.0	0.0	0.0	0.0
70°	6762.3	4774.4	60.9	18.7	11.7	4.7	2.3	0.0	0.0	0.0	0.0
72.5°	6001.3	4004.0	46.8	11.7	9.4	4.7	2.3	0.0	0.0	0.0	0.0
75°	4294.4	2135.5	32.8	9.4	7.0	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1976.3	826.6	23.4	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0
80°	386.4	206.1	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.0	35.1	4.7	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.4	11.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	4.7	2.3	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)