

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: P399338

Luminaire Tested: **ARCH-L-PA3-130-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399338
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-PA3-130-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA 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: 12208 lumens
Efficiency: N/A
Efficacy: 91.8 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

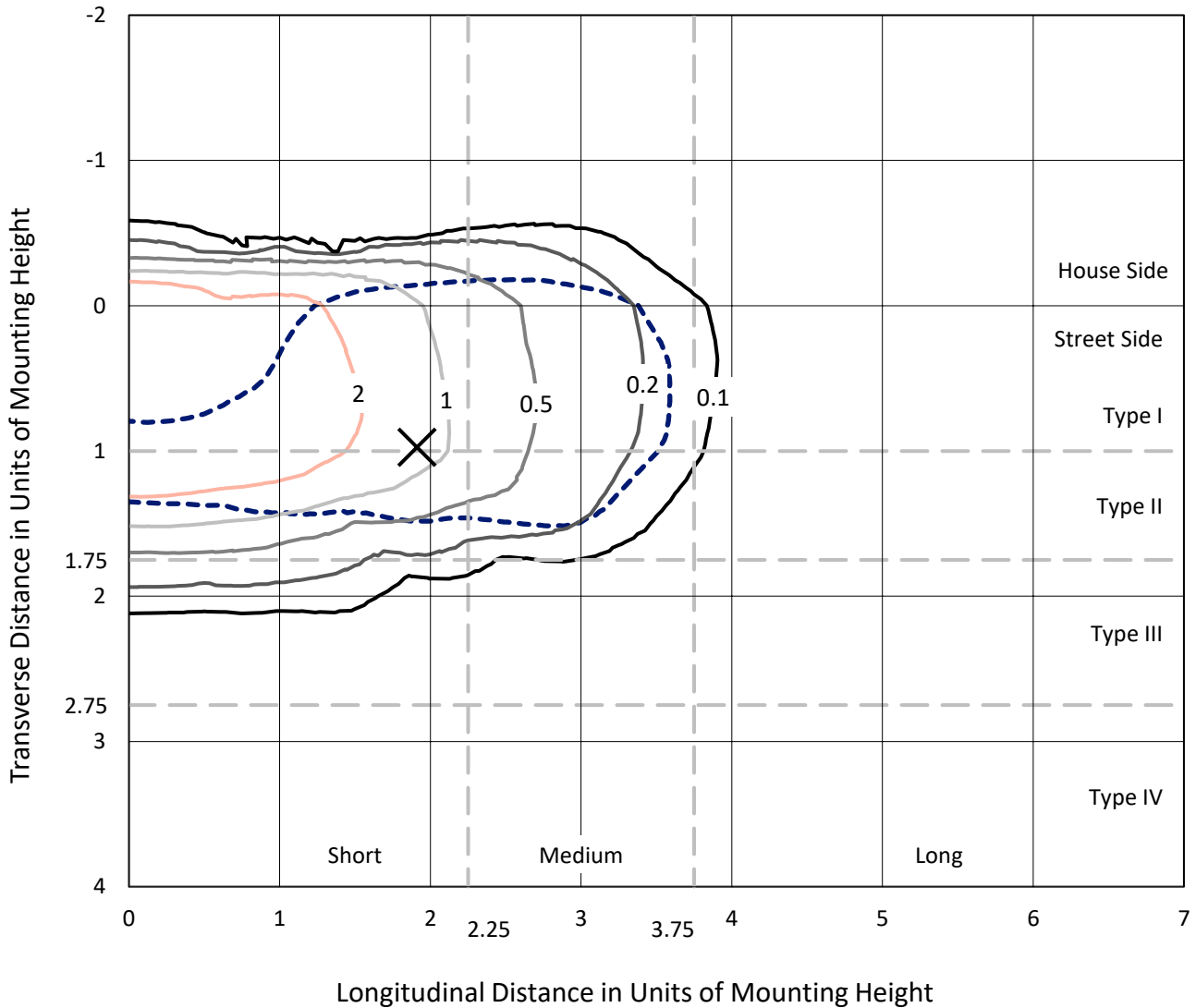
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

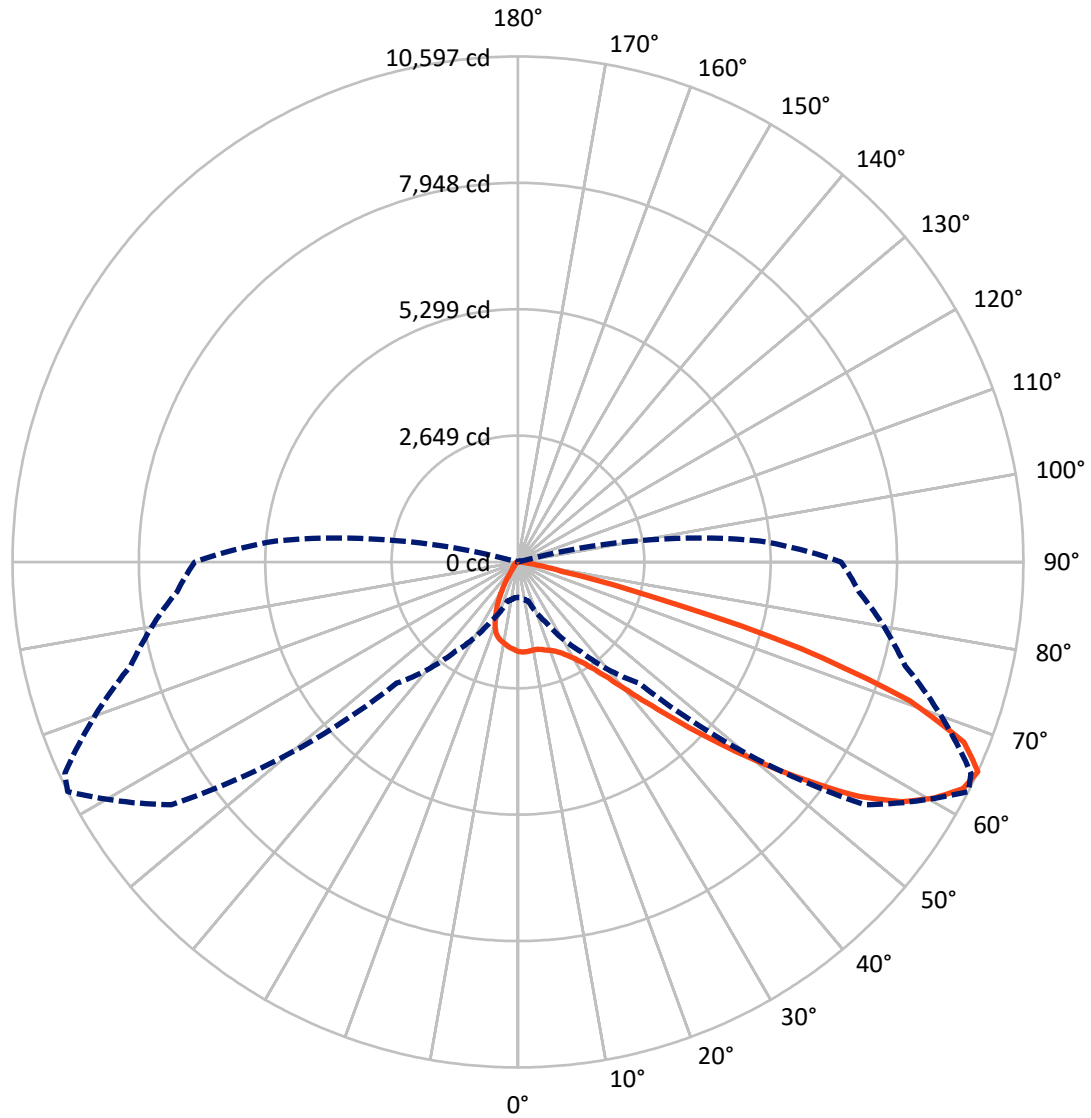
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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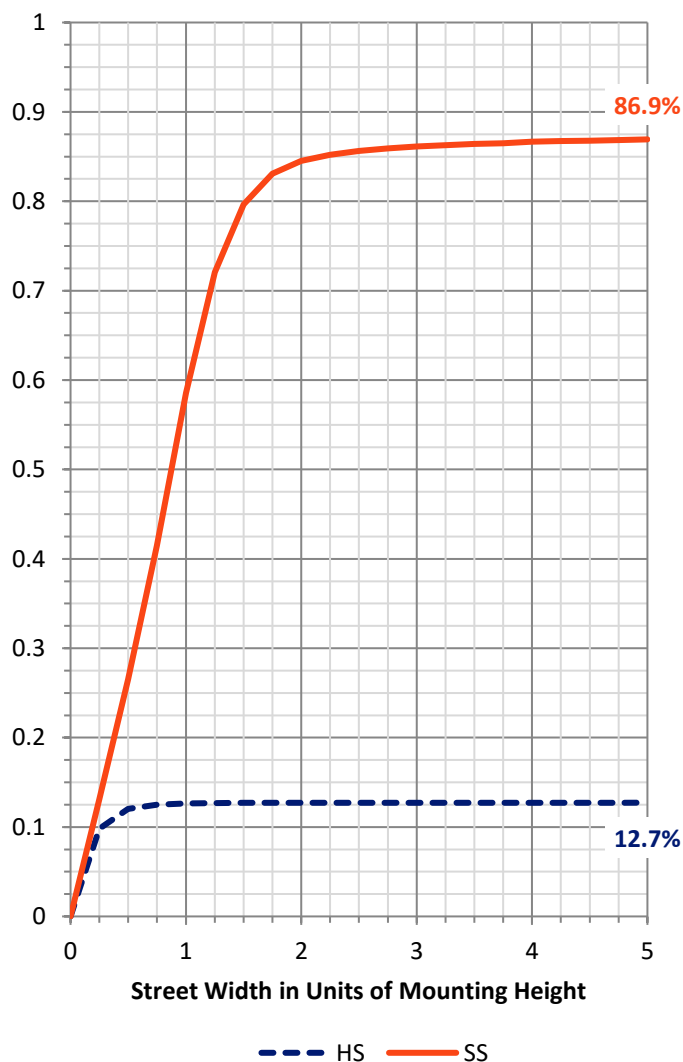
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.1	0.0	1571.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10636.8	0.0	10636.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	12208.0	0.0	12208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.4
10°-20°	423.3	3.5
20°-30°	627.5	5.1
30°-40°	1165.0	9.5
40°-50°	2468.0	20.2
50°-60°	3412.7	28.0
60°-70°	2731.9	22.4
70°-80°	1135.1	9.3
80°-90°	72.9	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°	12208.0	100.0
0°-180°	12208.0	100.0

Coefficient of Utilization



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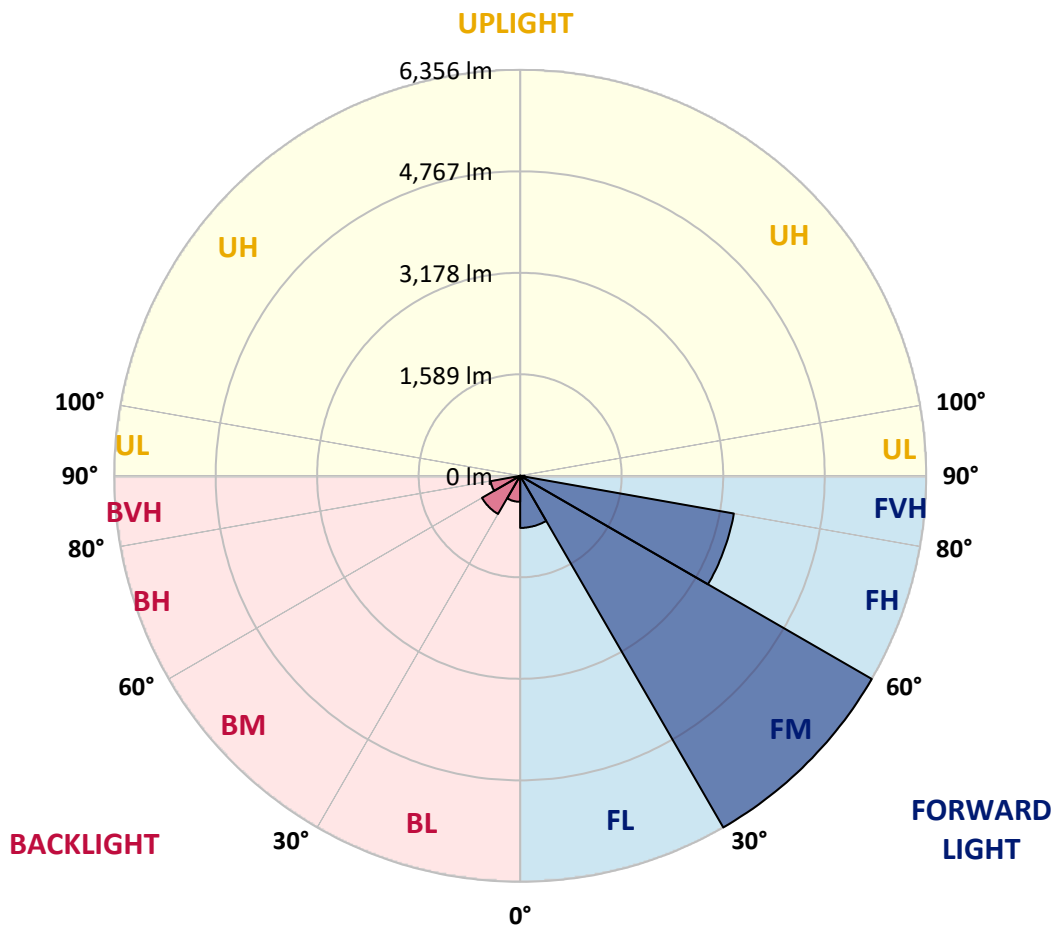
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.2	6.7			
FM (30°-60°)	6355.5	52.1			
FH (60°-80°)	3396.5	27.8			G2/5000
FVH (80°-90°)	69.6	0.6			G1/100
BL (0°-30°)	407.2	3.3	B1/500		
BM (30°-60°)	690.2	5.7	B1/1000		
BH (60°-80°)	470.5	3.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1912.9	1908.3	1903.7	1901.4	1901.4	1899.1	1889.9	1887.6	1883.0	1878.3	1873.7
5°	1894.5	1887.6	1885.3	1887.6	1889.9	1894.5	1889.9	1889.9	1885.3	1880.6	1871.4
7.5°	1848.4	1843.8	1846.1	1853.0	1855.3	1871.4	1873.7	1880.6	1880.6	1876.0	1869.1
10°	1793.1	1790.8	1790.8	1802.3	1813.8	1836.9	1853.0	1871.4	1873.7	1873.7	1862.2
12.5°	1751.6	1749.3	1756.2	1770.0	1793.1	1823.0	1850.7	1878.3	1883.0	1885.3	1866.8
15°	1726.2	1726.2	1735.5	1763.1	1795.4	1836.9	1869.1	1906.0	1910.6	1908.3	1883.0
17.5°	1703.2	1705.5	1723.9	1770.0	1806.9	1862.2	1901.4	1942.9	1945.2	1942.9	1901.4
20°	1694.0	1698.6	1726.2	1786.2	1827.6	1889.9	1940.6	1982.1	1984.4	1975.1	1919.8
22.5°	1719.3	1721.6	1756.2	1820.7	1859.9	1929.0	1993.6	2032.8	2035.1	2021.2	1947.5
25°	1806.9	1806.9	1836.9	1892.2	1926.7	1995.9	2065.0	2111.1	2111.1	2095.0	2009.7
27.5°	2012.0	1993.6	1986.7	2002.8	2014.3	2088.1	2161.8	2219.4	2217.1	2194.1	2090.4
30°	2408.4	2362.3	2288.6	2205.6	2164.1	2214.8	2284.0	2357.7	2355.4	2318.5	2189.5
32.5°	3074.5	3007.7	2832.5	2613.5	2436.1	2378.5	2443.0	2523.7	2526.0	2482.2	2348.5
35°	4007.9	3901.9	3588.4	3284.2	2878.6	2659.6	2678.1	2765.7	2793.3	2770.3	2615.9
37.5°	4906.7	4809.9	4510.3	4088.6	3537.7	3090.6	3012.3	3088.3	3120.6	3120.6	2957.0
40°	5812.5	5699.6	5434.5	5010.5	4429.7	3763.6	3482.4	3544.7	3579.2	3586.1	3371.8
42.5°	6538.5	6464.7	6261.9	5932.3	5388.4	4943.6	4160.0	4125.4	4157.7	4132.4	3853.5
45°	7040.9	6983.3	6842.7	6718.2	6453.2	6229.6	5065.8	4833.0	4853.7	4766.2	4395.1
47.5°	7144.6	7080.1	7050.1	7223.0	7412.0	7467.3	6178.9	5674.2	5653.5	5459.9	4957.4
50°	6692.9	6699.8	6810.4	7303.6	8091.9	8589.7	7469.6	6623.8	6547.7	6116.7	5480.6
52.5°	5718.0	5828.6	6107.5	6907.2	8299.3	9405.5	8760.2	7630.9	7513.4	6755.1	5872.4
55°	4473.5	4616.3	5075.0	5994.6	7866.0	9769.7	9848.1	8677.3	8409.9	7234.5	6176.6
57.5°	3325.7	3369.5	3904.2	4743.1	6840.4	9412.5	10405.8	9483.9	9140.5	7617.1	6478.6
60°	2071.9	2099.6	2664.3	3611.5	5181.0	8091.9	10405.8	10039.3	9712.1	7960.5	6755.1
62.5°	1288.3	1297.6	1509.6	2475.3	3521.6	6001.5	9974.8	10470.3	10207.6	8207.1	6992.5
65°	742.1	751.3	850.4	1399.0	2290.9	3593.1	8873.2	10597.1	10479.5	8403.0	7176.9
67.5°	541.6	546.2	585.4	785.9	1498.1	1846.1	6665.2	10087.7	10235.2	8499.8	7172.3
70°	470.2	477.1	527.8	613.1	1080.9	1133.9	3392.5	8711.8	9124.4	8361.5	6957.9
72.5°	361.8	371.1	447.1	576.2	792.8	815.9	1228.4	6199.7	6824.3	7497.2	6370.2
75°	248.9	258.1	334.2	474.8	654.5	610.7	675.3	2853.2	3600.0	5028.9	4849.1
77.5°	159.0	161.3	209.7	345.7	564.7	433.3	463.2	931.1	1306.8	2274.8	2288.6
80°	106.0	108.3	129.1	223.6	387.2	401.0	285.8	431.0	472.5	663.8	460.9
82.5°	64.5	64.5	87.6	140.6	235.1	331.9	186.7	225.9	242.0	255.8	119.8
85°	25.4	25.4	53.0	92.2	147.5	154.4	117.5	131.4	138.3	149.8	55.3
87.5°	6.9	6.9	30.0	50.7	64.5	71.4	71.4	64.5	69.1	85.3	27.7
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°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1871.4	1864.5	1855.3	1846.1	1836.9	1829.9	1823.0	1823.0	1818.4	1811.5	1806.9
5°	1866.8	1855.3	1834.6	1818.4	1793.1	1774.6	1760.8	1749.3	1742.4	1726.2	1723.9
7.5°	1859.9	1846.1	1816.1	1783.9	1742.4	1710.1	1677.8	1654.8	1631.7	1613.3	1608.7
10°	1848.4	1832.2	1788.5	1742.4	1684.7	1624.8	1548.8	1461.2	1380.5	1334.4	1320.6
12.5°	1848.4	1827.6	1770.0	1707.8	1624.8	1477.3	1283.7	1090.1	940.3	873.5	855.0
15°	1859.9	1832.2	1756.2	1670.9	1516.5	1216.9	903.4	647.6	484.0	433.3	421.8
17.5°	1871.4	1832.2	1735.5	1620.2	1318.3	882.7	514.0	341.1	288.1	276.6	276.6
20°	1876.0	1827.6	1707.8	1525.7	1053.3	548.5	306.5	255.8	235.1	228.2	228.2
22.5°	1894.5	1829.9	1687.1	1389.7	765.2	322.7	242.0	214.3	193.6	186.7	186.7
25°	1940.6	1857.6	1691.7	1216.9	490.9	244.3	205.1	177.5	156.7	147.5	147.5
27.5°	2014.3	1919.8	1717.0	1016.4	308.8	209.7	172.9	142.9	126.8	117.5	117.5
30°	2097.3	1989.0	1728.5	785.9	230.5	177.5	140.6	112.9	101.4	94.5	92.2
32.5°	2242.5	2108.8	1719.3	539.3	189.0	149.8	112.9	89.9	80.7	78.4	78.4
35°	2475.3	2318.5	1700.9	338.8	156.7	119.8	89.9	73.8	66.8	64.5	62.2
37.5°	2791.0	2625.1	1645.6	223.6	129.1	94.5	73.8	62.2	55.3	53.0	53.0
40°	3175.9	2975.4	1539.6	170.5	110.6	76.1	62.2	53.0	48.4	46.1	46.1
42.5°	3616.1	3364.9	1371.3	147.5	92.2	64.5	53.0	43.8	41.5	39.2	39.2
45°	4097.8	3772.8	1138.5	131.4	78.4	53.0	43.8	39.2	34.6	34.6	32.3
47.5°	4609.4	4183.1	875.8	115.2	66.8	46.1	39.2	32.3	30.0	27.7	27.7
50°	5102.6	4549.5	615.4	99.1	55.3	39.2	32.3	27.7	25.4	23.0	23.0
52.5°	5450.7	4770.8	435.6	85.3	46.1	34.6	25.4	20.7	18.4	18.4	18.4
55°	5729.5	4909.0	304.2	71.4	39.2	30.0	20.7	16.1	16.1	13.8	13.8
57.5°	5992.3	4998.9	223.6	59.9	32.3	23.0	16.1	11.5	11.5	9.2	9.2
60°	6264.2	5047.3	170.5	48.4	27.7	18.4	11.5	9.2	6.9	6.9	6.9
62.5°	6538.5	5077.3	131.4	39.2	23.0	13.8	9.2	6.9	4.6	2.3	2.3
65°	6778.2	5086.5	101.4	30.0	18.4	9.2	6.9	2.3	0.0	0.0	0.0
67.5°	6849.6	4980.5	78.4	23.0	13.8	6.9	4.6	0.0	0.0	0.0	0.0
70°	6656.0	4699.3	59.9	18.4	11.5	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	5907.0	3941.1	46.1	11.5	9.2	4.6	2.3	0.0	0.0	0.0	0.0
75°	4226.9	2101.9	32.3	9.2	6.9	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1945.2	813.6	23.0	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	380.3	202.8	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.6	34.6	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.0	11.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	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)