

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: P399527

Luminaire Tested: **ARCH-L-PA3-150-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399527
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-PA3-150-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA 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: 12096 lumens
Efficiency: N/A
Efficacy: 79.1 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

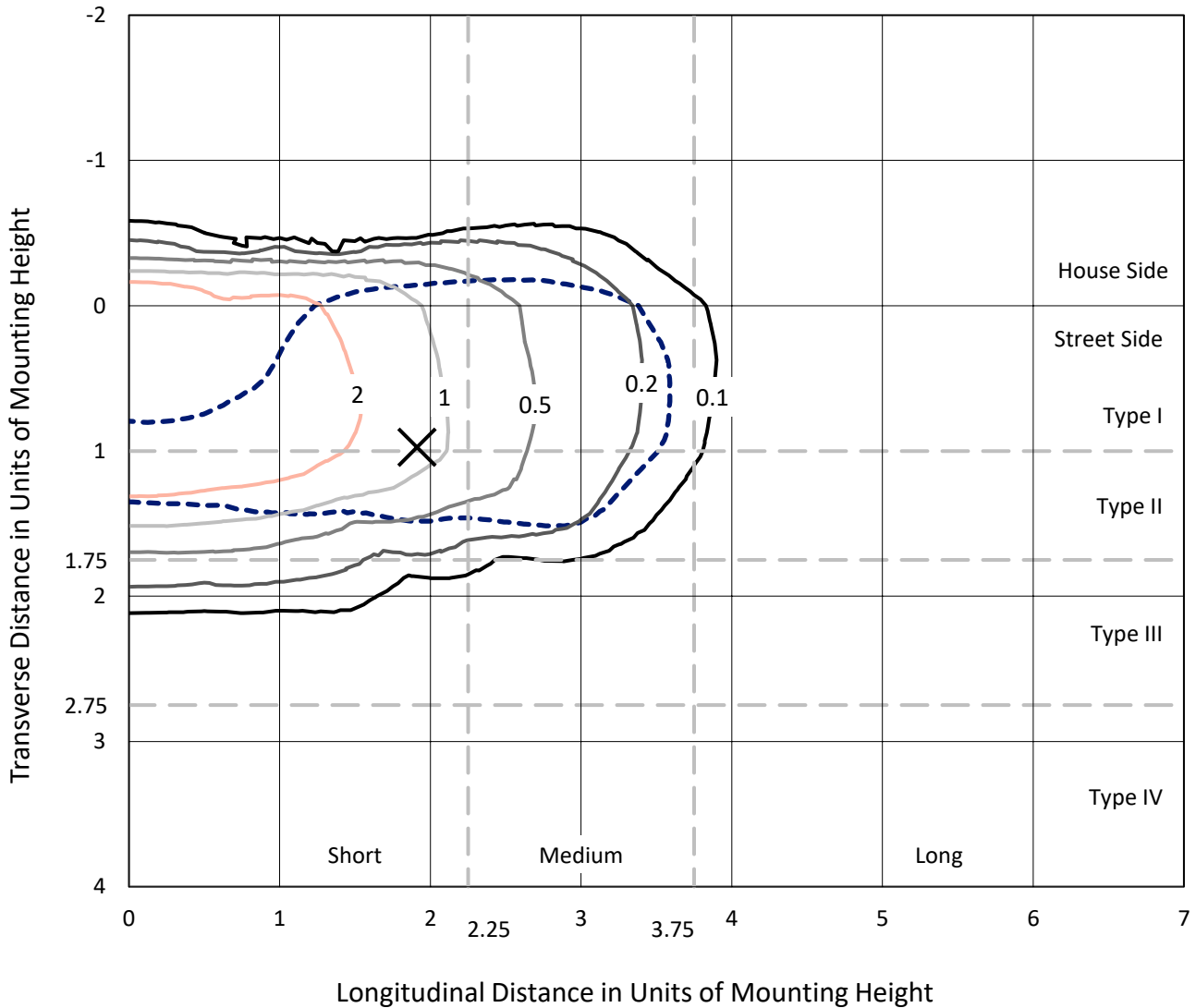
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

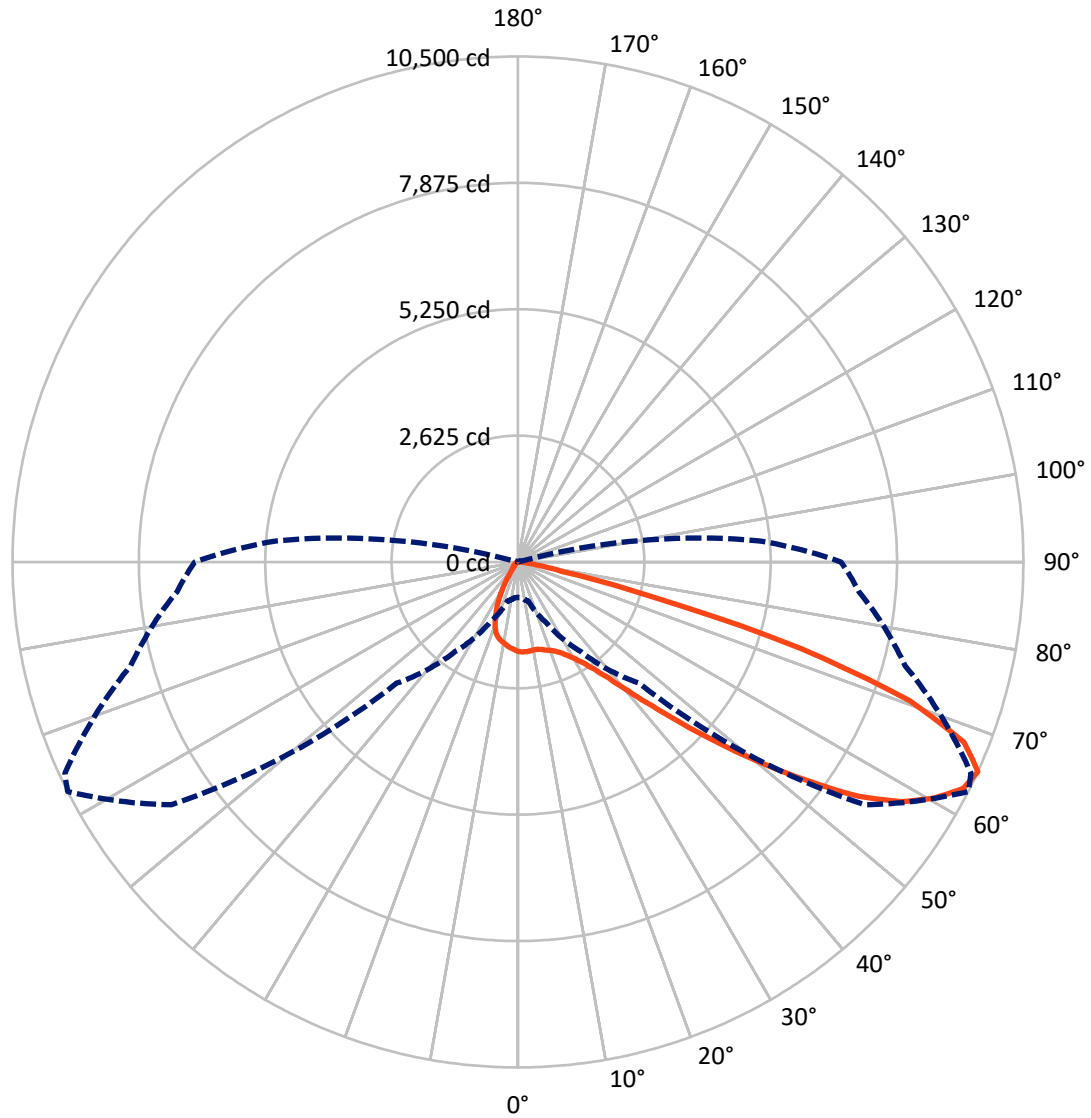
✕ Max cd
 - - - 1/2 Max cd



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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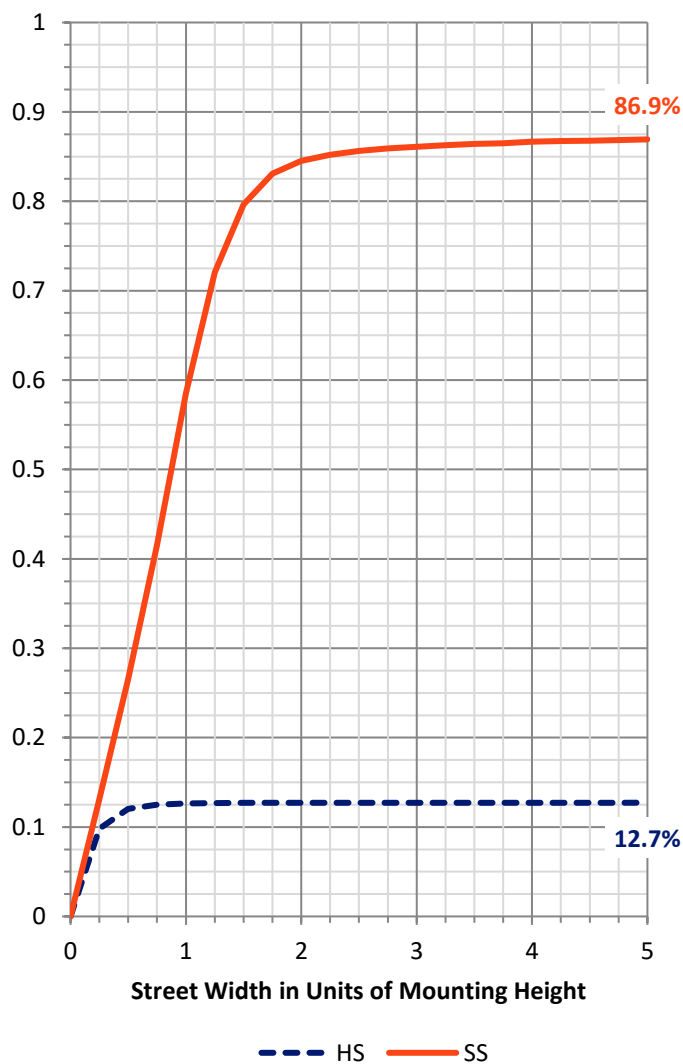
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.8	0.0	1556.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10539.3	0.0	10539.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	12096.0	0.0	12096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.4
10°-20°	419.4	3.5
20°-30°	621.7	5.1
30°-40°	1154.3	9.5
40°-50°	2445.4	20.2
50°-60°	3381.4	28.0
60°-70°	2706.9	22.4
70°-80°	1124.6	9.3
80°-90°	72.2	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°	12096.0	100.0
0°-180°	12096.0	100.0

Coefficient of Utilization



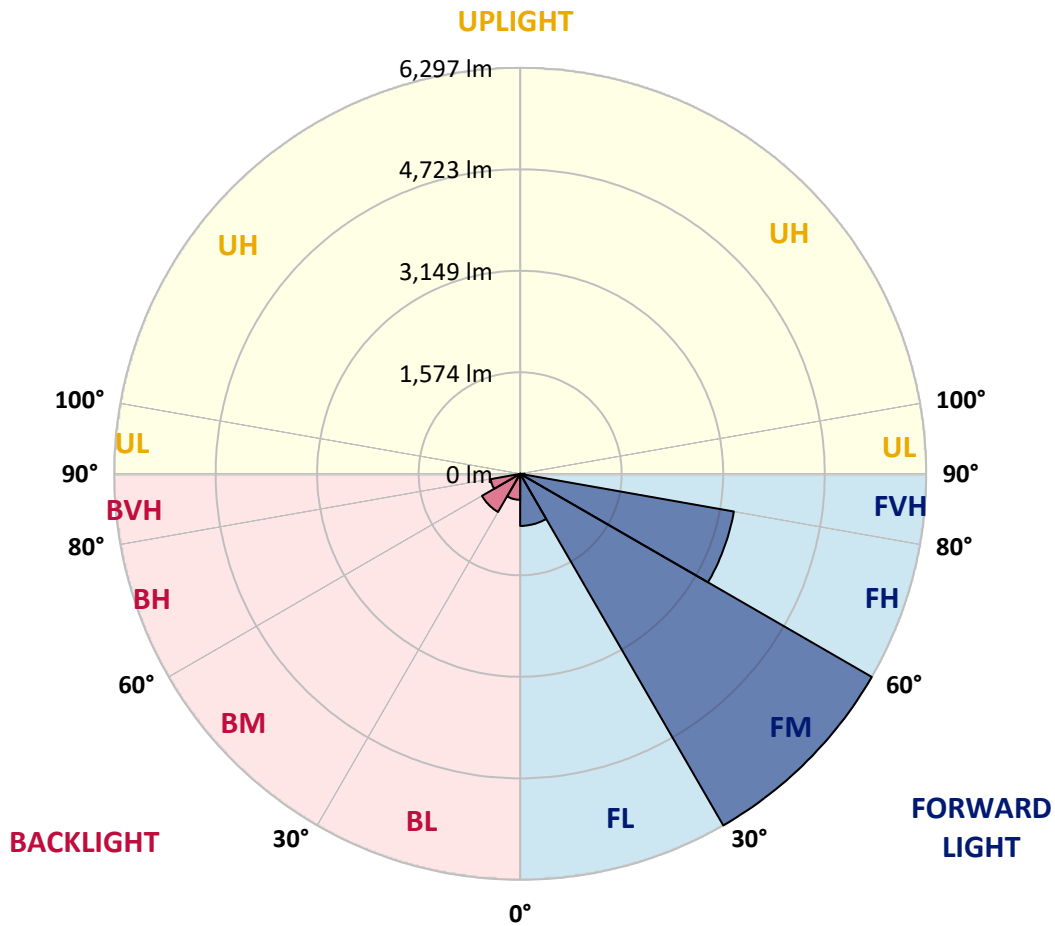
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.7	6.7			
FM (30°-60°)	6297.2	52.1			
FH (60°-80°)	3365.4	27.8			G2/5000
FVH (80°-90°)	68.9	0.6			G1/100
BL (0°-30°)	403.5	3.3	B1/500		
BM (30°-60°)	683.9	5.7	B1/1000		
BH (60°-80°)	466.1	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°	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4
2.5°	1895.4	1890.8	1886.2	1883.9	1883.9	1881.7	1872.5	1870.2	1865.7	1861.1	1856.5
5°	1877.1	1870.2	1868.0	1870.2	1872.5	1877.1	1872.5	1872.5	1868.0	1863.4	1854.3
7.5°	1831.4	1826.9	1829.1	1836.0	1838.3	1854.3	1856.5	1863.4	1863.4	1858.8	1852.0
10°	1776.6	1774.3	1774.3	1785.8	1797.2	1820.0	1836.0	1854.3	1856.5	1856.5	1845.1
12.5°	1735.5	1733.2	1740.1	1753.8	1776.6	1806.3	1833.7	1861.1	1865.7	1868.0	1849.7
15°	1710.4	1710.4	1719.5	1746.9	1778.9	1820.0	1852.0	1888.5	1893.1	1890.8	1865.7
17.5°	1687.6	1689.8	1708.1	1753.8	1790.3	1845.1	1883.9	1925.1	1927.3	1925.1	1883.9
20°	1678.4	1683.0	1710.4	1769.8	1810.9	1872.5	1922.8	1963.9	1966.2	1957.0	1902.2
22.5°	1703.5	1705.8	1740.1	1804.0	1842.8	1911.4	1975.3	2014.1	2016.4	2002.7	1929.6
25°	1790.3	1790.3	1820.0	1874.8	1909.1	1977.6	2046.1	2091.8	2091.8	2075.8	1991.3
27.5°	1993.6	1975.3	1968.4	1984.4	1995.8	2068.9	2142.0	2199.1	2196.8	2174.0	2071.2
30°	2386.3	2340.7	2267.6	2185.4	2144.3	2194.5	2263.0	2336.1	2333.8	2297.3	2169.4
32.5°	3046.3	2980.1	2806.5	2589.6	2413.7	2356.6	2420.6	2500.5	2502.8	2459.4	2327.0
35°	3971.1	3866.1	3555.5	3254.1	2852.2	2635.2	2653.5	2740.3	2767.7	2744.9	2591.9
37.5°	4861.7	4765.8	4469.0	4051.1	3505.3	3062.3	2984.6	3060.0	3092.0	3092.0	2929.8
40°	5759.2	5647.3	5384.7	4964.5	4389.0	3729.1	3450.5	3512.1	3546.4	3553.2	3340.9
42.5°	6478.5	6405.4	6204.5	5877.9	5339.0	4898.3	4121.8	4087.6	4119.6	4094.4	3818.1
45°	6976.3	6919.2	6779.9	6656.6	6394.0	6172.5	5019.3	4788.7	4809.2	4722.4	4354.8
47.5°	7079.1	7015.1	6985.4	7156.7	7344.0	7398.8	6122.3	5622.2	5601.6	5409.8	4912.0
50°	6631.5	6638.3	6748.0	7236.6	8017.6	8510.9	7401.1	6563.0	6487.6	6060.6	5430.3
52.5°	5665.5	5775.2	6051.5	6843.9	8223.1	9319.3	8679.9	7560.9	7444.4	6693.2	5818.5
55°	4432.4	4574.0	5028.4	5939.6	7793.8	9680.1	9757.7	8597.7	8332.8	7168.1	6120.0
57.5°	3295.2	3338.6	3868.4	4699.6	6777.6	9326.1	10310.3	9396.9	9056.6	7547.2	6419.1
60°	2052.9	2080.3	2639.8	3578.4	5133.5	8017.6	10310.3	9947.2	9623.0	7887.5	6693.2
62.5°	1276.5	1285.7	1495.7	2452.6	3489.3	5946.4	9883.3	10374.3	10113.9	8131.8	6928.4
65°	735.3	744.4	842.6	1386.1	2269.9	3560.1	8791.8	10499.9	10383.4	8325.9	7111.0
67.5°	536.6	541.2	580.0	778.7	1484.3	1829.1	6604.1	9995.2	10141.3	8421.8	7106.5
70°	465.8	472.7	522.9	607.4	1071.0	1123.5	3361.4	8631.9	9040.7	8284.8	6894.1
72.5°	358.5	367.7	443.0	570.9	785.5	808.4	1217.1	6142.8	6761.7	7428.5	6311.8
75°	246.6	255.8	331.1	470.4	648.5	605.1	669.1	2827.1	3566.9	4982.8	4804.6
77.5°	157.6	159.9	207.8	342.5	559.5	429.3	459.0	922.6	1294.8	2253.9	2267.6
80°	105.0	107.3	127.9	221.5	383.6	397.3	283.2	427.0	468.1	657.7	456.7
82.5°	63.9	63.9	86.8	139.3	232.9	328.8	185.0	223.8	239.8	253.5	118.7
85°	25.1	25.1	52.5	91.3	146.1	153.0	116.5	130.2	137.0	148.4	54.8
87.5°	6.9	6.9	29.7	50.2	63.9	70.8	70.8	63.9	68.5	84.5	27.4
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°	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4
2.5°	1854.3	1847.4	1838.3	1829.1	1820.0	1813.2	1806.3	1806.3	1801.7	1794.9	1790.3
5°	1849.7	1838.3	1817.7	1801.7	1776.6	1758.4	1744.6	1733.2	1726.4	1710.4	1708.1
7.5°	1842.8	1829.1	1799.5	1767.5	1726.4	1694.4	1662.4	1639.6	1616.8	1598.5	1593.9
10°	1831.4	1815.4	1772.1	1726.4	1669.3	1609.9	1534.6	1447.8	1367.9	1322.2	1308.5
12.5°	1831.4	1810.9	1753.8	1692.1	1609.9	1463.8	1271.9	1080.1	931.7	865.5	847.2
15°	1842.8	1815.4	1740.1	1655.6	1502.6	1205.7	895.2	641.7	479.6	429.3	417.9
17.5°	1854.3	1815.4	1719.5	1605.4	1306.2	874.6	509.2	338.0	285.4	274.0	274.0
20°	1858.8	1810.9	1692.1	1511.7	1043.6	543.5	303.7	253.5	232.9	226.1	226.1
22.5°	1877.1	1813.2	1671.6	1377.0	758.1	319.7	239.8	212.4	191.8	185.0	185.0
25°	1922.8	1840.6	1676.1	1205.7	486.4	242.1	203.2	175.8	155.3	146.1	146.1
27.5°	1995.8	1902.2	1701.3	1007.1	306.0	207.8	171.3	141.6	125.6	116.5	116.5
30°	2078.1	1970.7	1712.7	778.7	228.4	175.8	139.3	111.9	100.5	93.6	91.3
32.5°	2221.9	2089.5	1703.5	534.4	187.3	148.4	111.9	89.1	79.9	77.6	77.6
35°	2452.6	2297.3	1685.3	335.7	155.3	118.7	89.1	73.1	66.2	63.9	61.7
37.5°	2765.4	2601.0	1630.5	221.5	127.9	93.6	73.1	61.7	54.8	52.5	52.5
40°	3146.8	2948.1	1525.4	169.0	109.6	75.4	61.7	52.5	48.0	45.7	45.7
42.5°	3582.9	3334.0	1358.7	146.1	91.3	63.9	52.5	43.4	41.1	38.8	38.8
45°	4060.2	3738.2	1128.1	130.2	77.6	52.5	43.4	38.8	34.3	34.3	32.0
47.5°	4567.1	4144.7	867.8	114.2	66.2	45.7	38.8	32.0	29.7	27.4	27.4
50°	5055.8	4507.8	609.7	98.2	54.8	38.8	32.0	27.4	25.1	22.8	22.8
52.5°	5400.6	4727.0	431.6	84.5	45.7	34.3	25.1	20.6	18.3	18.3	18.3
55°	5677.0	4864.0	301.4	70.8	38.8	29.7	20.6	16.0	16.0	13.7	13.7
57.5°	5937.3	4953.1	221.5	59.4	32.0	22.8	16.0	11.4	11.4	9.1	9.1
60°	6206.8	5001.0	169.0	48.0	27.4	18.3	11.4	9.1	6.9	6.9	6.9
62.5°	6478.5	5030.7	130.2	38.8	22.8	13.7	9.1	6.9	4.6	2.3	2.3
65°	6716.0	5039.8	100.5	29.7	18.3	9.1	6.9	2.3	0.0	0.0	0.0
67.5°	6786.8	4934.8	77.6	22.8	13.7	6.9	4.6	0.0	0.0	0.0	0.0
70°	6595.0	4656.2	59.4	18.3	11.4	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	5852.8	3904.9	45.7	11.4	9.1	4.6	2.3	0.0	0.0	0.0	0.0
75°	4188.1	2082.6	32.0	9.1	6.9	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1927.3	806.1	22.8	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	376.8	201.0	9.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.8	34.3	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.7	11.4	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	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)