

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: P399401

Luminaire Tested: **ARCH-L-PA3-140-722-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399401
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-PA3-140-722-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 620mA 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: 11417 lumens
Efficiency: N/A
Efficacy: 79.8 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

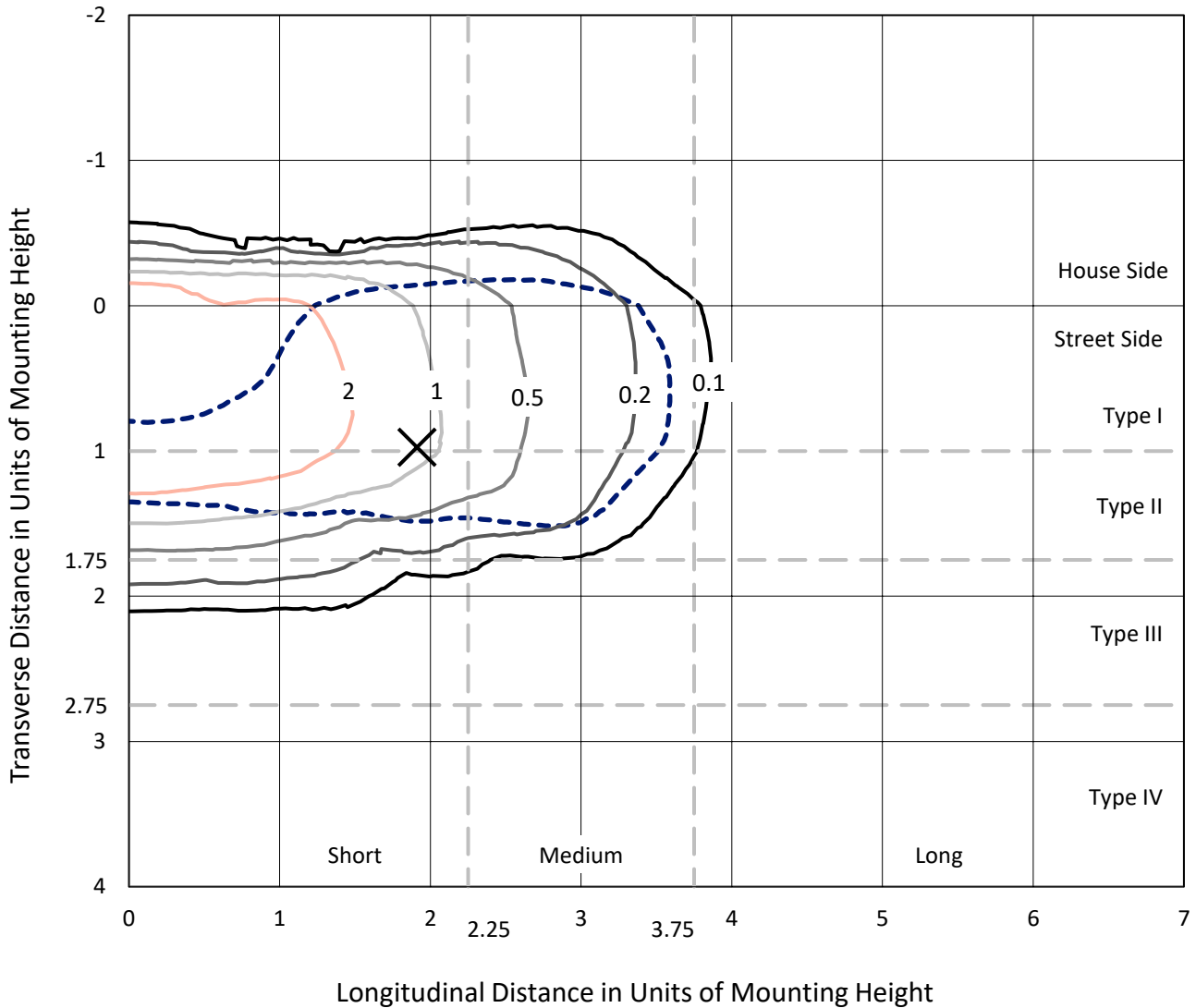
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

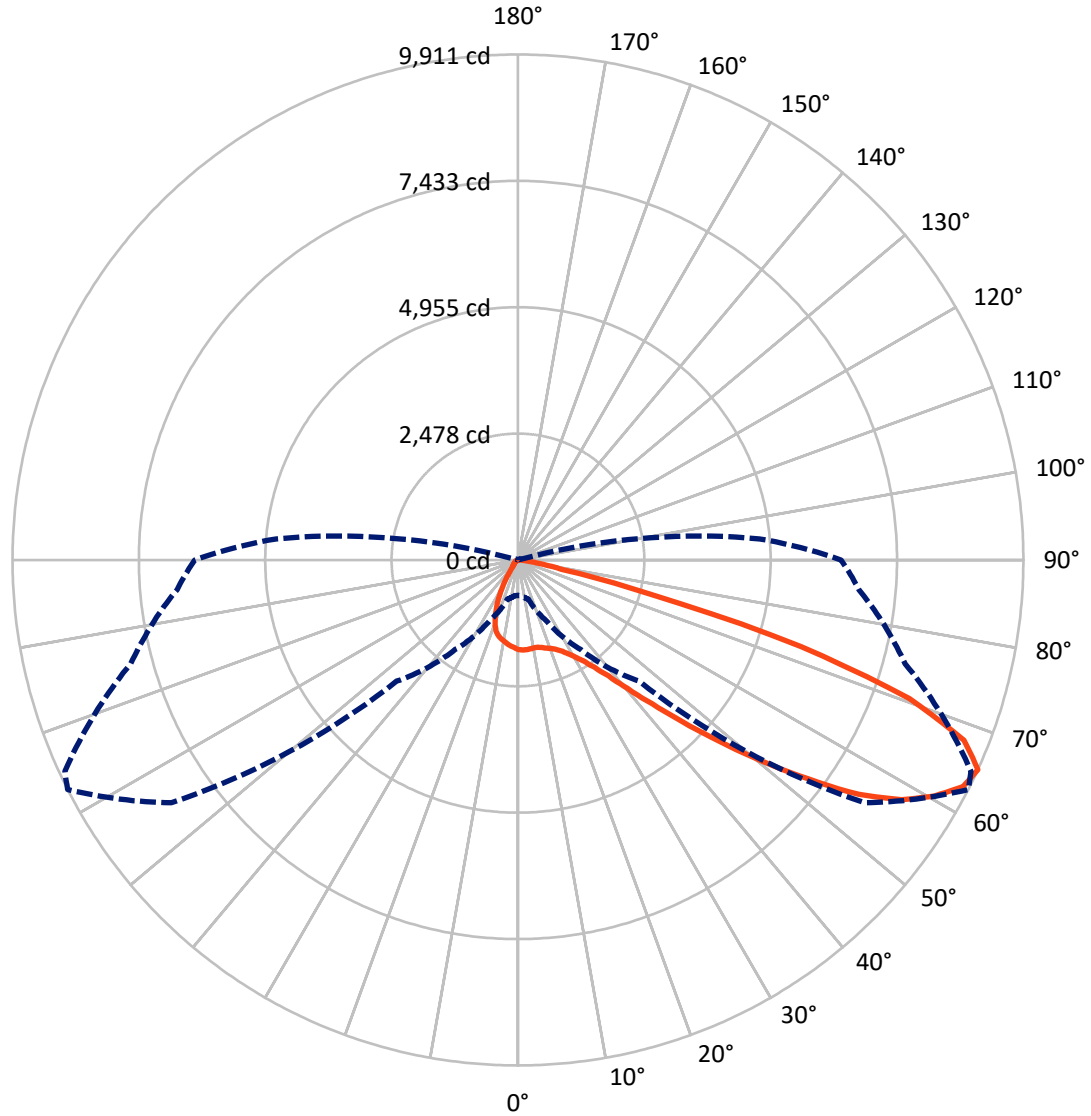
✕ Max cd
 - - - 1/2 Max cd



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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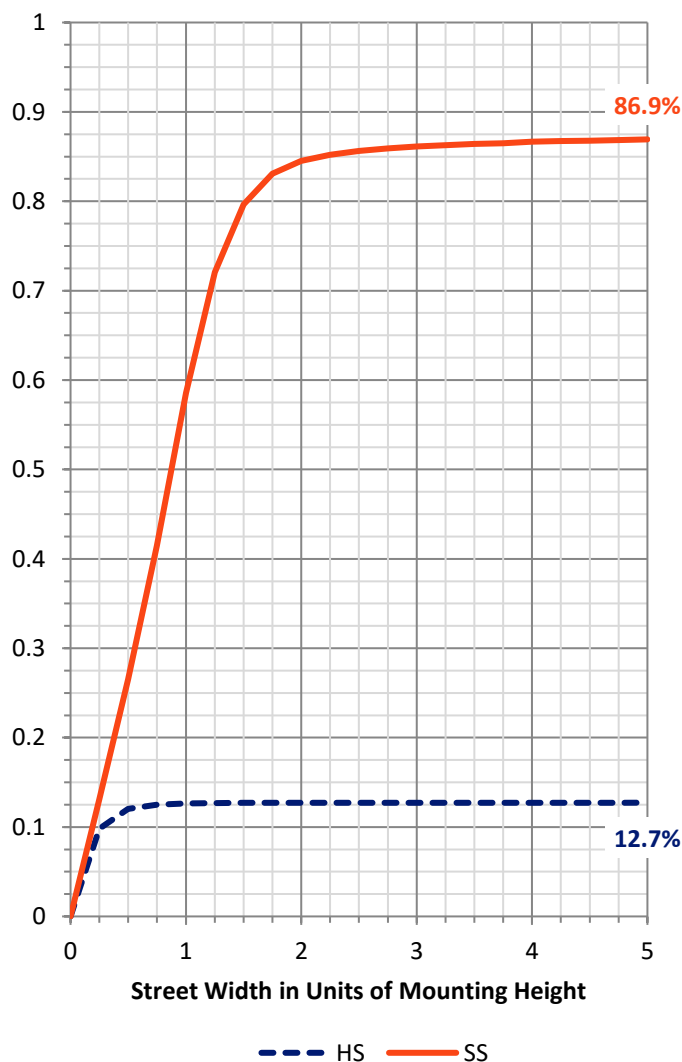
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.4	0.0	1469.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9947.7	0.0	9947.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	11417.0	0.0	11417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.4
10°-20°	395.9	3.5
20°-30°	586.8	5.1
30°-40°	1089.5	9.5
40°-50°	2308.1	20.2
50°-60°	3191.5	28.0
60°-70°	2554.9	22.4
70°-80°	1061.5	9.3
80°-90°	68.2	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°	11417.0	100.0
0°-180°	11417.0	100.0

Coefficient of Utilization

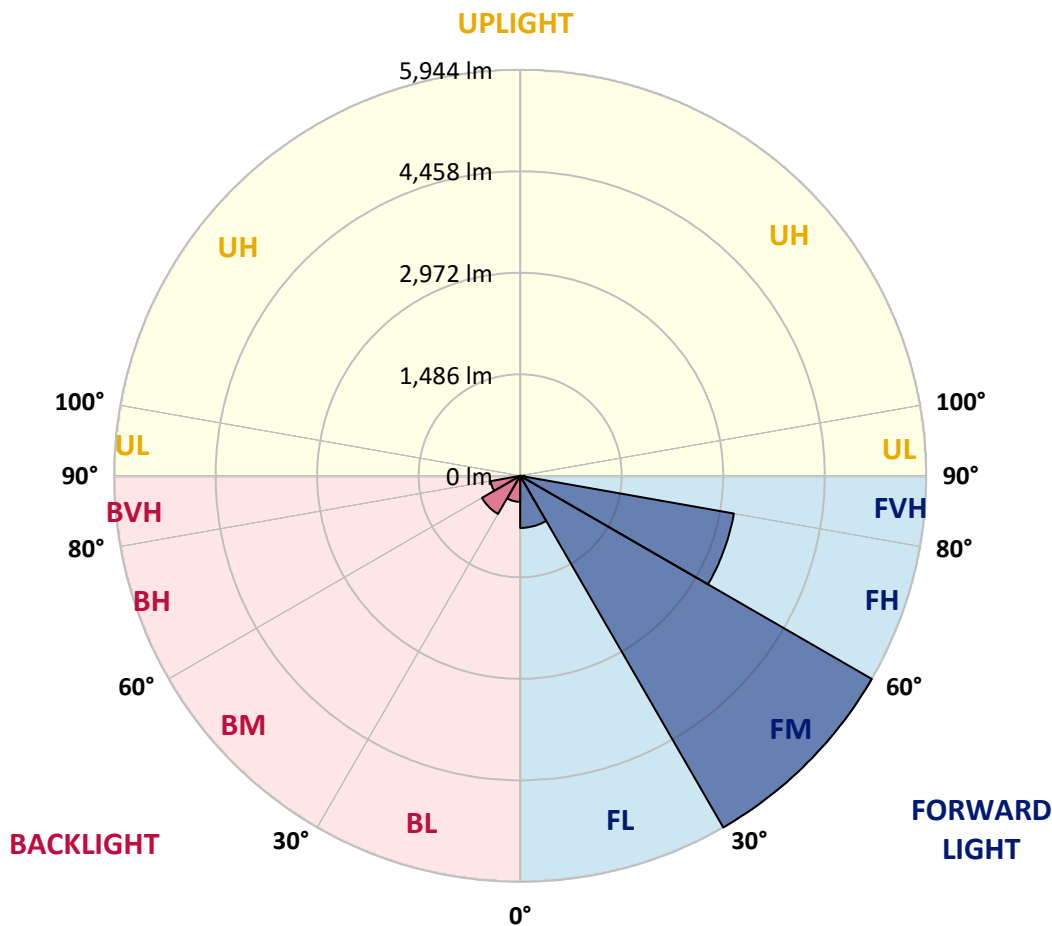


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.4	6.7			
FM (30°-60°)	5943.7	52.1			
FH (60°-80°)	3176.5	27.8			G2/5000
FVH (80°-90°)	65.1	0.6			G1/100
BL (0°-30°)	380.8	3.3	B1/500		
BM (30°-60°)	645.5	5.7	B1/1000		
BH (60°-80°)	440.0	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°	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8
2.5°	1789.0	1784.7	1780.3	1778.2	1778.2	1776.0	1767.4	1765.3	1761.0	1756.6	1752.3
5°	1771.7	1765.3	1763.1	1765.3	1767.4	1771.7	1767.4	1767.4	1763.1	1758.8	1750.2
7.5°	1728.6	1724.3	1726.5	1732.9	1735.1	1750.2	1752.3	1758.8	1758.8	1754.5	1748.0
10°	1676.9	1674.7	1674.7	1685.5	1696.3	1717.8	1732.9	1750.2	1752.3	1752.3	1741.6
12.5°	1638.1	1635.9	1642.4	1655.3	1676.9	1704.9	1730.8	1756.6	1761.0	1763.1	1745.9
15°	1614.4	1614.4	1623.0	1648.9	1679.0	1717.8	1748.0	1782.5	1786.8	1784.7	1761.0
17.5°	1592.8	1595.0	1612.2	1655.3	1689.8	1741.6	1778.2	1817.0	1819.1	1817.0	1778.2
20°	1584.2	1588.5	1614.4	1670.4	1709.2	1767.4	1814.8	1853.6	1855.8	1847.2	1795.4
22.5°	1607.9	1610.1	1642.4	1702.8	1739.4	1804.1	1864.4	1901.1	1903.2	1890.3	1821.3
25°	1689.8	1689.8	1717.8	1769.6	1801.9	1866.6	1931.2	1974.3	1974.3	1959.2	1879.5
27.5°	1881.7	1864.4	1857.9	1873.0	1883.8	1952.8	2021.8	2075.6	2073.5	2051.9	1954.9
30°	2252.4	2209.3	2140.3	2062.7	2023.9	2071.3	2136.0	2205.0	2202.8	2168.3	2047.6
32.5°	2875.3	2812.8	2649.0	2444.2	2278.2	2224.4	2284.7	2360.1	2362.3	2321.4	2196.3
35°	3748.2	3649.1	3355.9	3071.4	2692.1	2487.3	2504.6	2586.5	2612.3	2590.8	2446.4
37.5°	4588.8	4498.3	4218.1	3823.7	3308.5	2890.4	2817.1	2888.2	2918.4	2918.4	2765.4
40°	5435.9	5330.3	5082.4	4685.8	4142.7	3519.7	3256.8	3315.0	3347.3	3353.8	3153.3
42.5°	6114.8	6045.9	5856.2	5548.0	5039.3	4623.3	3890.5	3858.1	3888.3	3864.6	3603.8
45°	6584.7	6530.8	6399.3	6283.0	6035.1	5826.0	4737.5	4519.8	4539.2	4457.3	4110.3
47.5°	6681.7	6621.3	6593.3	6755.0	6931.7	6983.5	5778.6	5306.6	5287.2	5106.1	4636.2
50°	6259.2	6265.7	6369.2	6830.4	7567.6	8033.1	6985.6	6194.6	6123.5	5720.4	5125.5
52.5°	5347.5	5451.0	5711.8	6459.7	7761.5	8796.1	8192.6	7136.5	7026.6	6317.4	5491.9
55°	4183.6	4317.2	4746.2	5606.2	7356.3	9136.7	9210.0	8115.0	7865.0	6765.8	5776.4
57.5°	3110.2	3151.2	3651.2	4435.8	6397.2	8802.6	9731.6	8869.4	8548.3	7123.6	6058.8
60°	1937.7	1963.6	2491.6	3377.5	4845.3	7567.6	9731.6	9388.9	9082.8	7444.7	6317.4
62.5°	1204.9	1213.5	1411.8	2314.9	3293.4	5612.6	9328.5	9791.9	9546.2	7675.3	6539.4
65°	694.0	702.7	795.3	1308.3	2142.5	3360.2	8298.2	9910.5	9800.5	7858.5	6711.9
67.5°	506.5	510.8	547.5	735.0	1401.0	1726.5	6233.4	9434.1	9572.1	7949.1	6707.6
70°	439.7	446.2	493.6	573.3	1010.9	1060.4	3172.7	8147.4	8533.2	7819.7	6507.1
72.5°	338.4	347.0	418.1	538.8	741.5	763.0	1148.8	5798.0	6382.1	7011.5	5957.5
75°	232.8	241.4	312.5	444.0	612.1	571.2	631.5	2668.4	3366.7	4703.1	4534.9
77.5°	148.7	150.9	196.1	323.3	528.1	405.2	433.2	870.8	1222.1	2127.4	2140.3
80°	99.1	101.3	120.7	209.1	362.1	375.0	267.3	403.1	441.9	620.8	431.1
82.5°	60.4	60.4	81.9	131.5	219.8	310.4	174.6	211.2	226.3	239.2	112.1
85°	23.7	23.7	49.6	86.2	137.9	144.4	109.9	122.9	129.3	140.1	51.7
87.5°	6.5	6.5	28.0	47.4	60.4	66.8	66.8	60.4	64.7	79.7	25.9
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°	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8	1758.8
2.5°	1750.2	1743.7	1735.1	1726.5	1717.8	1711.4	1704.9	1704.9	1700.6	1694.1	1689.8
5°	1745.9	1735.1	1715.7	1700.6	1676.9	1659.6	1646.7	1635.9	1629.5	1614.4	1612.2
7.5°	1739.4	1726.5	1698.4	1668.3	1629.5	1599.3	1569.1	1547.6	1526.0	1508.8	1504.5
10°	1728.6	1713.5	1672.6	1629.5	1575.6	1519.5	1448.4	1366.5	1291.1	1248.0	1235.0
12.5°	1728.6	1709.2	1655.3	1597.1	1519.5	1381.6	1200.6	1019.5	879.4	816.9	799.6
15°	1739.4	1713.5	1642.4	1562.7	1418.2	1138.0	844.9	605.7	452.6	405.2	394.4
17.5°	1750.2	1713.5	1623.0	1515.2	1232.9	825.5	480.7	319.0	269.4	258.6	258.6
20°	1754.5	1709.2	1597.1	1426.9	985.0	513.0	286.7	239.2	219.8	213.4	213.4
22.5°	1771.7	1711.4	1577.7	1299.7	715.6	301.8	226.3	200.5	181.1	174.6	174.6
25°	1814.8	1737.2	1582.1	1138.0	459.1	228.5	191.8	166.0	146.6	137.9	137.9
27.5°	1883.8	1795.4	1605.8	950.5	288.8	196.1	161.7	133.6	118.5	109.9	109.9
30°	1961.4	1860.1	1616.5	735.0	215.5	166.0	131.5	105.6	94.8	88.4	86.2
32.5°	2097.2	1972.2	1607.9	504.4	176.7	140.1	105.6	84.1	75.4	73.3	73.3
35°	2314.9	2168.3	1590.7	316.8	146.6	112.1	84.1	69.0	62.5	60.4	58.2
37.5°	2610.2	2455.0	1538.9	209.1	120.7	88.4	69.0	58.2	51.7	49.6	49.6
40°	2970.1	2782.6	1439.8	159.5	103.5	71.1	58.2	49.6	45.3	43.1	43.1
42.5°	3381.8	3146.9	1282.5	137.9	86.2	60.4	49.6	41.0	38.8	36.6	36.6
45°	3832.3	3528.4	1064.8	122.9	73.3	49.6	41.0	36.6	32.3	32.3	30.2
47.5°	4310.8	3912.0	819.0	107.8	62.5	43.1	36.6	30.2	28.0	25.9	25.9
50°	4772.0	4254.7	575.5	92.7	51.7	36.6	30.2	25.9	23.7	21.6	21.6
52.5°	5097.5	4461.6	407.4	79.7	43.1	32.3	23.7	19.4	17.2	17.2	17.2
55°	5358.3	4591.0	284.5	66.8	36.6	28.0	19.4	15.1	15.1	12.9	12.9
57.5°	5604.0	4675.0	209.1	56.0	30.2	21.6	15.1	10.8	10.8	8.6	8.6
60°	5858.3	4720.3	159.5	45.3	25.9	17.2	10.8	8.6	6.5	6.5	6.5
62.5°	6114.8	4748.3	122.9	36.6	21.6	12.9	8.6	6.5	4.3	2.2	2.2
65°	6339.0	4756.9	94.8	28.0	17.2	8.6	6.5	2.2	0.0	0.0	0.0
67.5°	6405.8	4657.8	73.3	21.6	12.9	6.5	4.3	0.0	0.0	0.0	0.0
70°	6224.8	4394.8	56.0	17.2	10.8	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	5524.3	3685.7	43.1	10.8	8.6	4.3	2.2	0.0	0.0	0.0	0.0
75°	3953.0	1965.7	30.2	8.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1819.1	760.9	21.6	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	355.6	189.7	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.9	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)