

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: P399131

Luminaire Tested: **ARCH-L-PA3-100-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399131
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-PA3-100-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA 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: 10528 lumens
Efficiency: N/A
Efficacy: 103.2 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

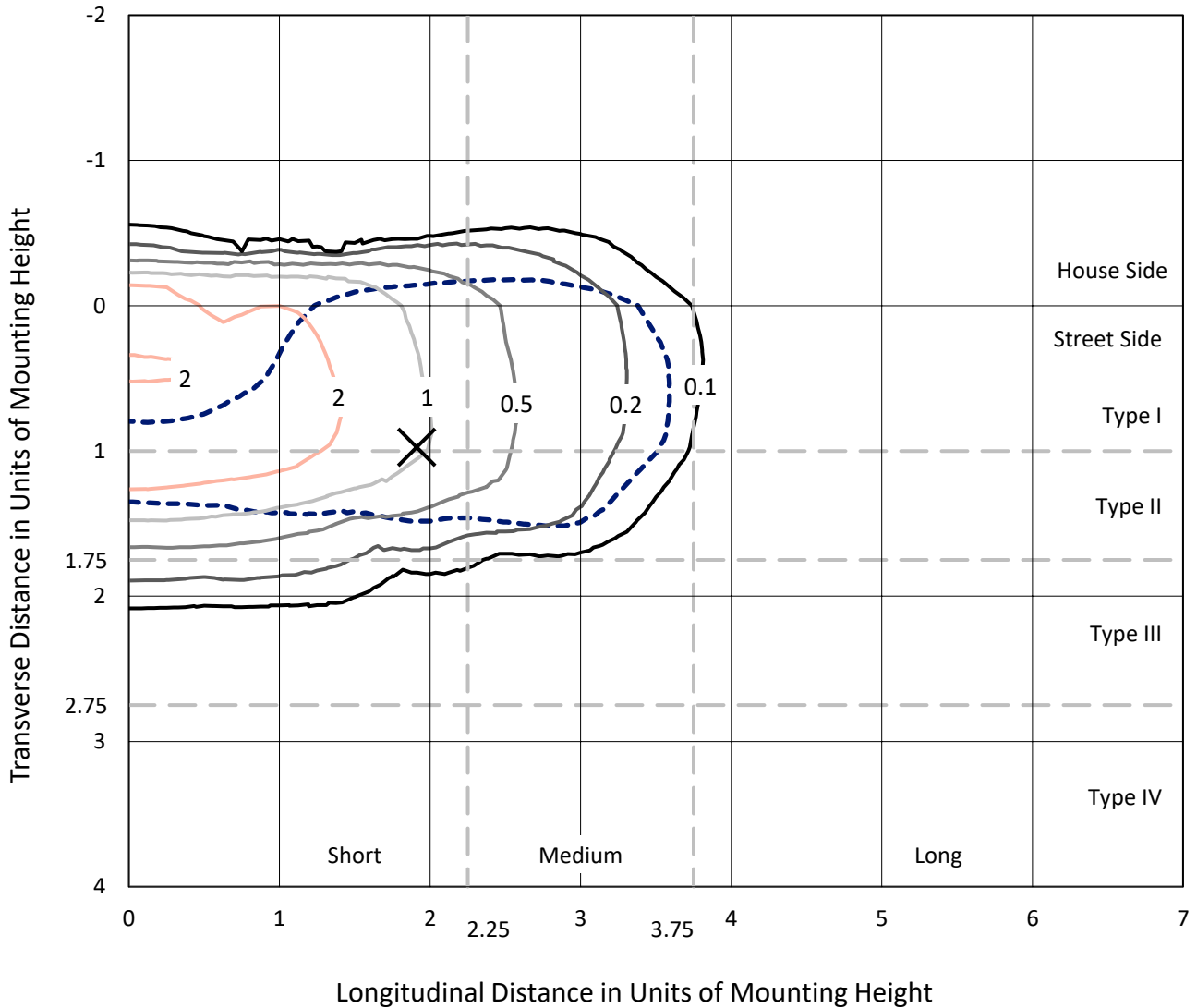
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

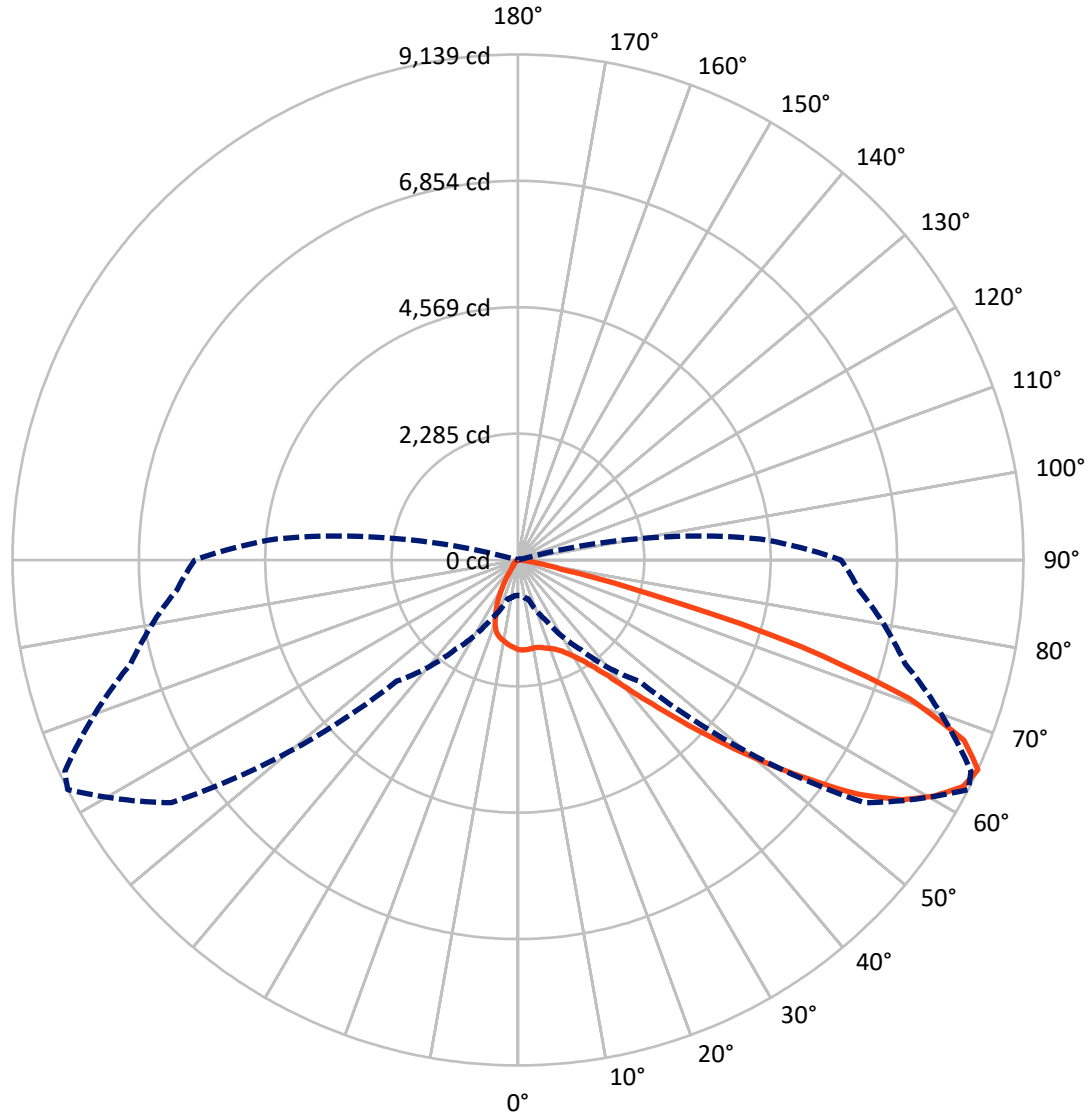
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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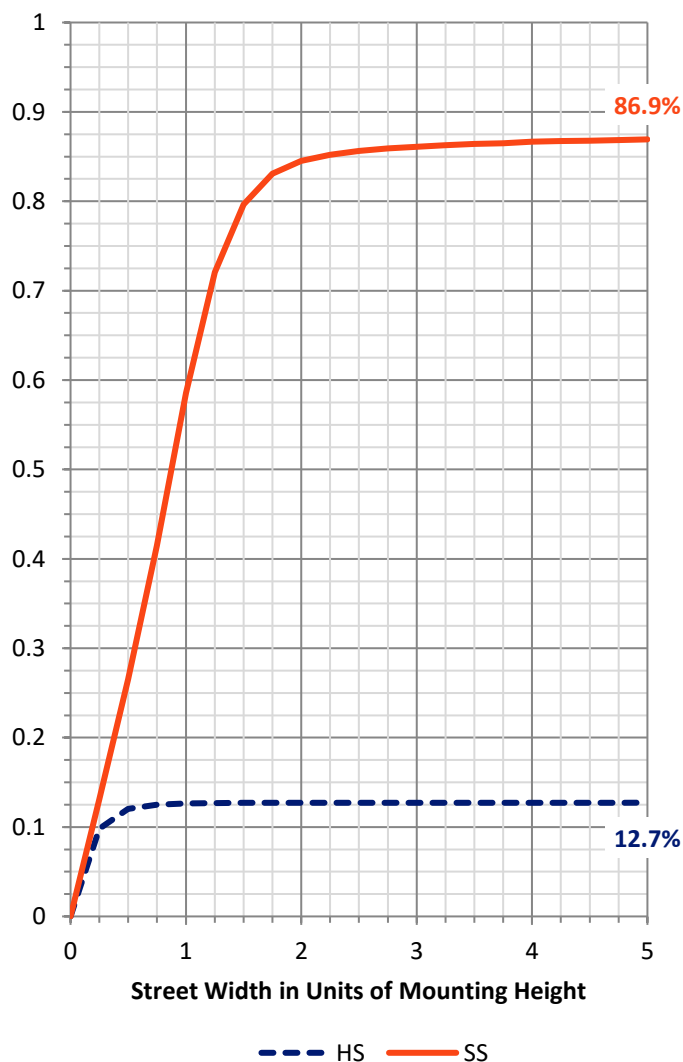
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.0	0.0	1355.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9173.1	0.0	9173.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	10528.0	0.0	10528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.4
10°-20°	365.1	3.5
20°-30°	541.1	5.1
30°-40°	1004.7	9.5
40°-50°	2128.4	20.2
50°-60°	2943.0	28.0
60°-70°	2356.0	22.4
70°-80°	978.9	9.3
80°-90°	62.9	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°	10528.0	100.0
0°-180°	10528.0	100.0

Coefficient of Utilization

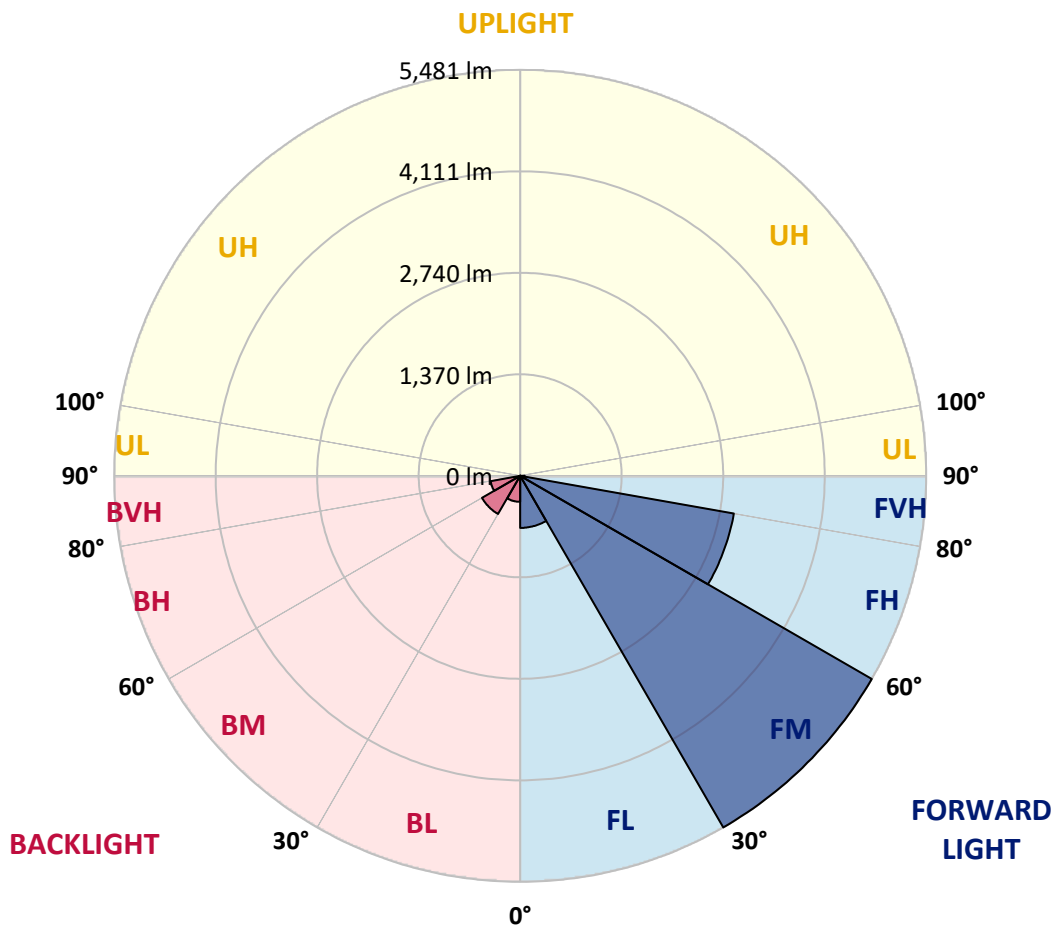


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.0	6.7			
FM (30°-60°)	5480.9	52.1			
FH (60°-80°)	2929.1	27.8			G2/5000
FVH (80°-90°)	60.0	0.6			G1/100
BL (0°-30°)	351.2	3.3	B1/500		
BM (30°-60°)	595.2	5.7	B1/1000		
BH (60°-80°)	405.7	3.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8
2.5°	1649.7	1645.7	1641.7	1639.7	1639.7	1637.7	1629.8	1627.8	1623.8	1619.9	1615.9
5°	1633.8	1627.8	1625.8	1627.8	1629.8	1633.8	1629.8	1629.8	1625.8	1621.8	1613.9
7.5°	1594.0	1590.0	1592.0	1598.0	1600.0	1613.9	1615.9	1621.8	1621.8	1617.9	1611.9
10°	1546.3	1544.3	1544.3	1554.3	1564.2	1584.1	1598.0	1613.9	1615.9	1615.9	1605.9
12.5°	1510.5	1508.6	1514.5	1526.4	1546.3	1572.2	1596.0	1619.9	1623.8	1625.8	1609.9
15°	1488.7	1488.7	1496.6	1520.5	1548.3	1584.1	1611.9	1643.7	1647.7	1645.7	1623.8
17.5°	1468.8	1470.8	1486.7	1526.4	1558.2	1605.9	1639.7	1675.5	1677.5	1675.5	1639.7
20°	1460.9	1464.8	1488.7	1540.4	1576.1	1629.8	1673.5	1709.3	1711.3	1703.3	1655.6
22.5°	1482.7	1484.7	1514.5	1570.2	1604.0	1663.6	1719.2	1753.0	1755.0	1743.1	1679.5
25°	1558.2	1558.2	1584.1	1631.8	1661.6	1721.2	1780.8	1820.6	1820.6	1806.7	1733.1
27.5°	1735.1	1719.2	1713.3	1727.2	1737.1	1800.7	1864.3	1914.0	1912.0	1892.2	1802.7
30°	2077.0	2037.2	1973.6	1902.1	1866.3	1910.0	1969.7	2033.3	2031.3	1999.5	1888.2
32.5°	2651.4	2593.8	2442.7	2253.9	2100.8	2051.2	2106.8	2176.4	2178.4	2140.6	2025.3
35°	3456.4	3364.9	3094.6	2832.3	2482.5	2293.6	2309.5	2385.1	2408.9	2389.0	2255.9
37.5°	4231.5	4148.0	3889.6	3525.9	3050.9	2665.3	2597.7	2663.3	2691.1	2691.1	2550.0
40°	5012.6	4915.2	4686.7	4320.9	3820.1	3245.7	3003.2	3056.9	3086.7	3092.6	2907.8
42.5°	5638.7	5575.1	5400.2	5116.0	4646.9	4263.3	3587.5	3557.7	3585.5	3563.7	3323.2
45°	6072.0	6022.3	5901.0	5793.7	5565.2	5372.4	4368.6	4167.9	4185.8	4110.3	3790.3
47.5°	6161.4	6105.8	6079.9	6229.0	6392.0	6439.7	5328.6	4893.4	4875.5	4708.5	4275.2
50°	5771.9	5777.8	5873.2	6298.6	6978.3	7407.6	6441.7	5712.2	5646.6	5275.0	4726.4
52.5°	4931.1	5026.5	5267.0	5956.7	7157.2	8111.2	7554.7	6580.8	6479.4	5825.5	5064.3
55°	3857.8	3981.1	4376.6	5169.6	6783.5	8425.2	8492.8	7483.1	7252.6	6238.9	5326.6
57.5°	2868.0	2905.8	3366.9	4090.4	5899.1	8117.2	8973.8	8178.8	7882.6	6568.9	5587.0
60°	1786.8	1810.7	2297.6	3114.5	4468.0	6978.3	8973.8	8657.8	8375.6	6865.0	5825.5
62.5°	1111.0	1119.0	1301.8	2134.6	3037.0	5175.6	8602.1	9029.5	8802.9	7077.7	6030.2
65°	640.0	647.9	733.4	1206.4	1975.6	3098.6	7652.1	9138.8	9037.4	7246.6	6189.2
67.5°	467.1	471.1	504.8	677.8	1291.9	1592.0	5748.0	8699.5	8826.7	7330.1	6185.3
70°	405.5	411.4	455.1	528.7	932.2	977.9	2925.7	7513.0	7868.7	7210.8	6000.4
72.5°	312.0	320.0	385.6	496.9	683.7	703.6	1059.4	5346.5	5885.1	6465.5	5493.6
75°	214.7	222.6	288.2	409.4	564.5	526.7	582.4	2460.6	3104.6	4336.8	4181.8
77.5°	137.1	139.1	180.9	298.1	487.0	373.7	399.5	803.0	1126.9	1961.7	1973.6
80°	91.4	93.4	111.3	192.8	333.9	345.8	246.5	371.7	407.4	572.4	397.5
82.5°	55.7	55.7	75.5	121.2	202.7	286.2	161.0	194.8	208.7	220.6	103.4
85°	21.9	21.9	45.7	79.5	127.2	133.2	101.4	113.3	119.3	129.2	47.7
87.5°	6.0	6.0	25.8	43.7	55.7	61.6	61.6	55.7	59.6	73.5	23.9
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°	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8	1621.8
2.5°	1613.9	1607.9	1600.0	1592.0	1584.1	1578.1	1572.2	1572.2	1568.2	1562.2	1558.2
5°	1609.9	1600.0	1582.1	1568.2	1546.3	1530.4	1518.5	1508.6	1502.6	1488.7	1486.7
7.5°	1604.0	1592.0	1566.2	1538.4	1502.6	1474.8	1446.9	1427.1	1407.2	1391.3	1387.3
10°	1594.0	1580.1	1542.3	1502.6	1452.9	1401.2	1335.6	1260.1	1190.5	1150.8	1138.9
12.5°	1594.0	1576.1	1526.4	1472.8	1401.2	1274.0	1107.1	940.1	810.9	753.3	737.4
15°	1604.0	1580.1	1514.5	1441.0	1307.8	1049.4	779.1	558.5	417.4	373.7	363.7
17.5°	1613.9	1580.1	1496.6	1397.3	1136.9	761.2	443.2	294.2	248.4	238.5	238.5
20°	1617.9	1576.1	1472.8	1315.8	908.3	473.0	264.3	220.6	202.7	196.8	196.8
22.5°	1633.8	1578.1	1454.9	1198.5	659.9	278.3	208.7	184.8	167.0	161.0	161.0
25°	1673.5	1602.0	1458.9	1049.4	423.3	210.7	176.9	153.0	135.2	127.2	127.2
27.5°	1737.1	1655.6	1480.7	876.5	266.3	180.9	149.1	123.2	109.3	101.4	101.4
30°	1808.7	1715.3	1490.7	677.8	198.8	153.0	121.2	97.4	87.5	81.5	79.5
32.5°	1933.9	1818.6	1482.7	465.1	163.0	129.2	97.4	77.5	69.6	67.6	67.6
35°	2134.6	1999.5	1466.8	292.2	135.2	103.4	77.5	63.6	57.6	55.7	53.7
37.5°	2406.9	2263.8	1419.1	192.8	111.3	81.5	63.6	53.7	47.7	45.7	45.7
40°	2738.8	2565.9	1327.7	147.1	95.4	65.6	53.7	45.7	41.7	39.8	39.8
42.5°	3118.5	2901.8	1182.6	127.2	79.5	55.7	45.7	37.8	35.8	33.8	33.8
45°	3533.9	3253.6	981.9	113.3	67.6	45.7	37.8	33.8	29.8	29.8	27.8
47.5°	3975.1	3607.4	755.3	99.4	57.6	39.8	33.8	27.8	25.8	23.9	23.9
50°	4400.4	3923.4	530.7	85.5	47.7	33.8	27.8	23.9	21.9	19.9	19.9
52.5°	4700.6	4114.2	375.6	73.5	39.8	29.8	21.9	17.9	15.9	15.9	15.9
55°	4941.1	4233.5	262.4	61.6	33.8	25.8	17.9	13.9	13.9	11.9	11.9
57.5°	5167.6	4311.0	192.8	51.7	27.8	19.9	13.9	9.9	9.9	8.0	8.0
60°	5402.2	4352.7	147.1	41.7	23.9	15.9	9.9	8.0	6.0	6.0	6.0
62.5°	5638.7	4378.6	113.3	33.8	19.9	11.9	8.0	6.0	4.0	2.0	2.0
65°	5845.4	4386.5	87.5	25.8	15.9	8.0	6.0	2.0	0.0	0.0	0.0
67.5°	5907.0	4295.1	67.6	19.9	11.9	6.0	4.0	0.0	0.0	0.0	0.0
70°	5740.1	4052.6	51.7	15.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	5094.1	3398.7	39.8	9.9	8.0	4.0	2.0	0.0	0.0	0.0	0.0
75°	3645.2	1812.6	27.8	8.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1677.5	701.6	19.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	327.9	174.9	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.5	29.8	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	9.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.0	2.0	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)