

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: P399151

Luminaire Tested: **ARCH-L-PA3-100-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-750-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12216 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

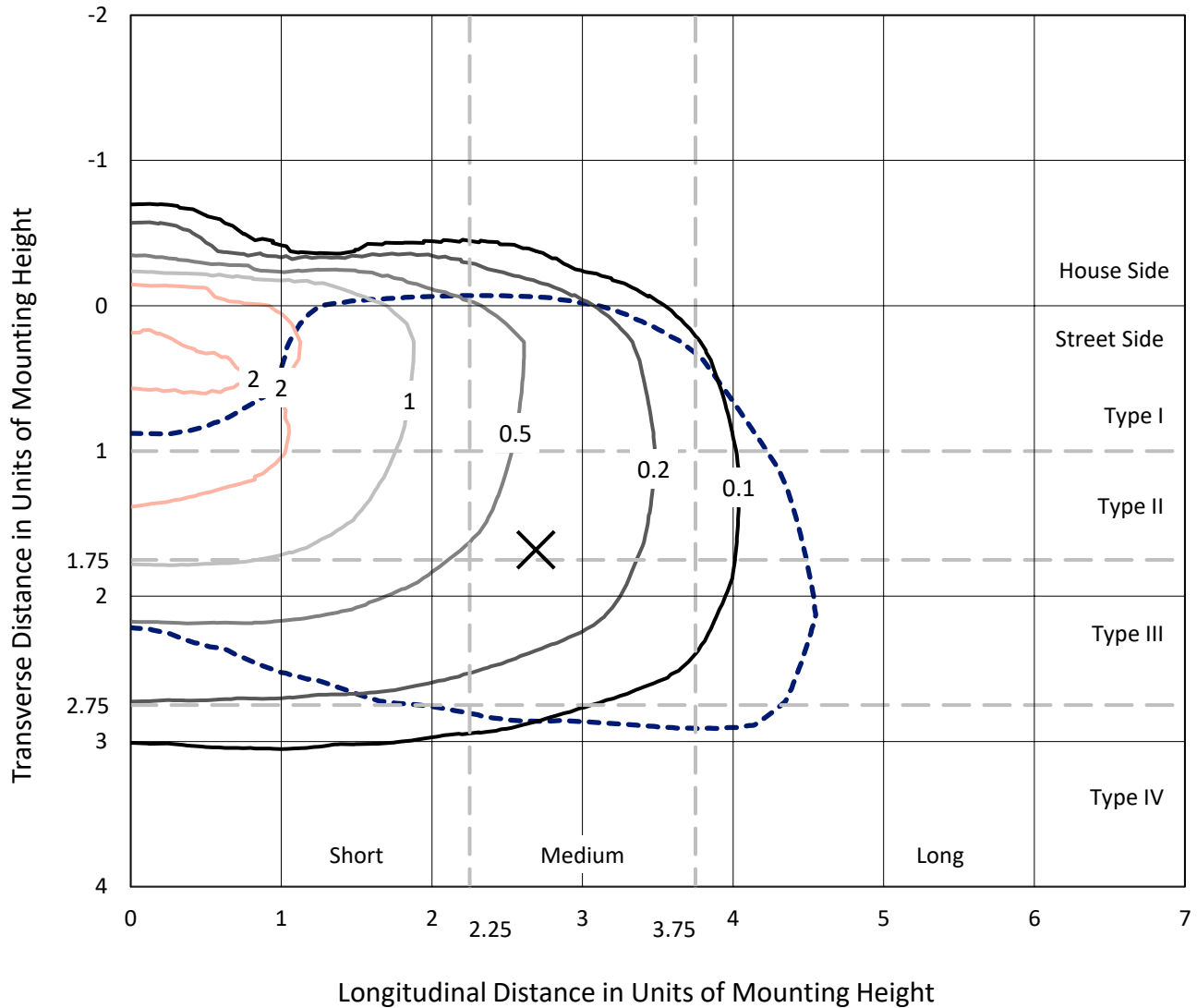
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

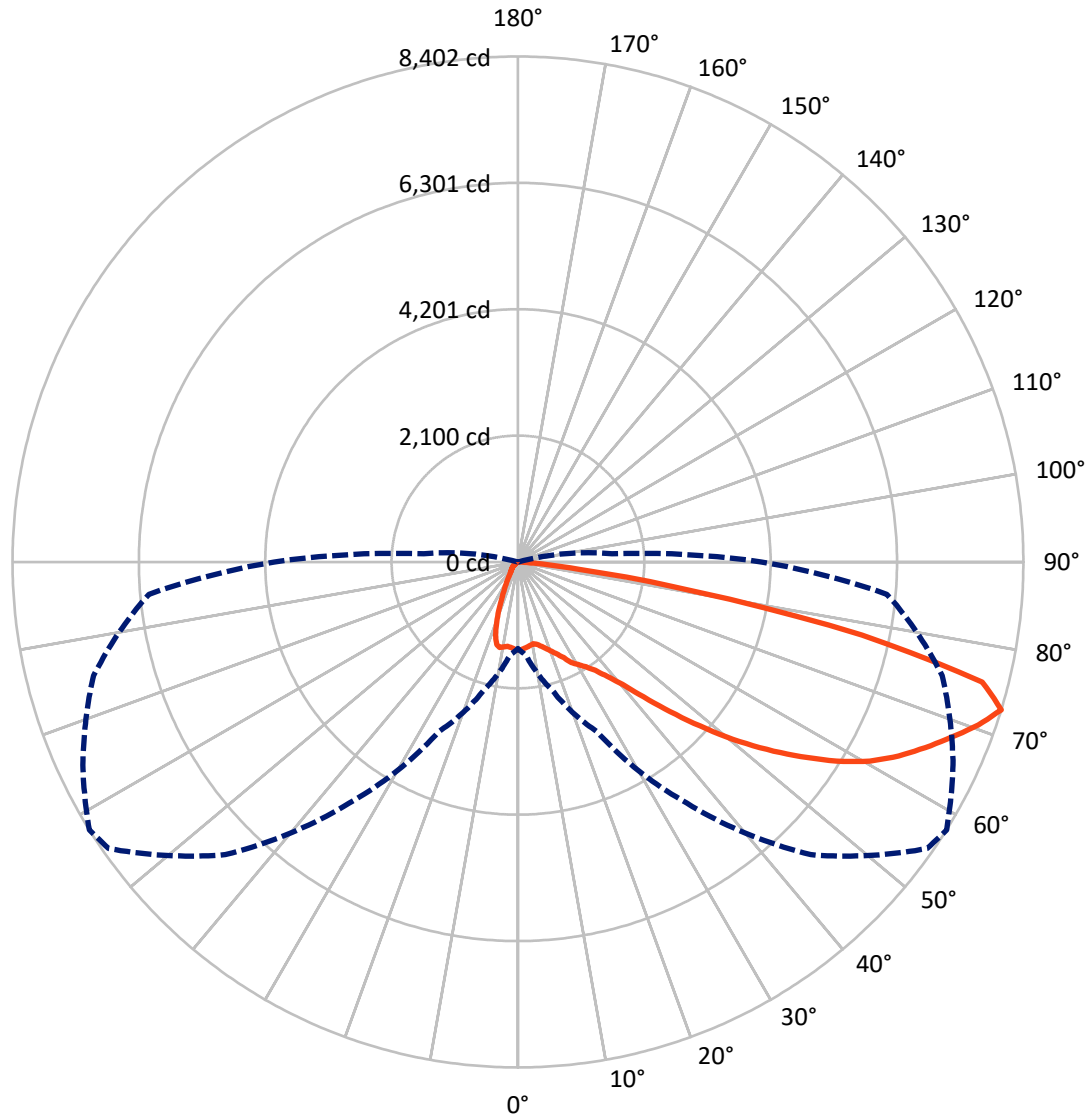
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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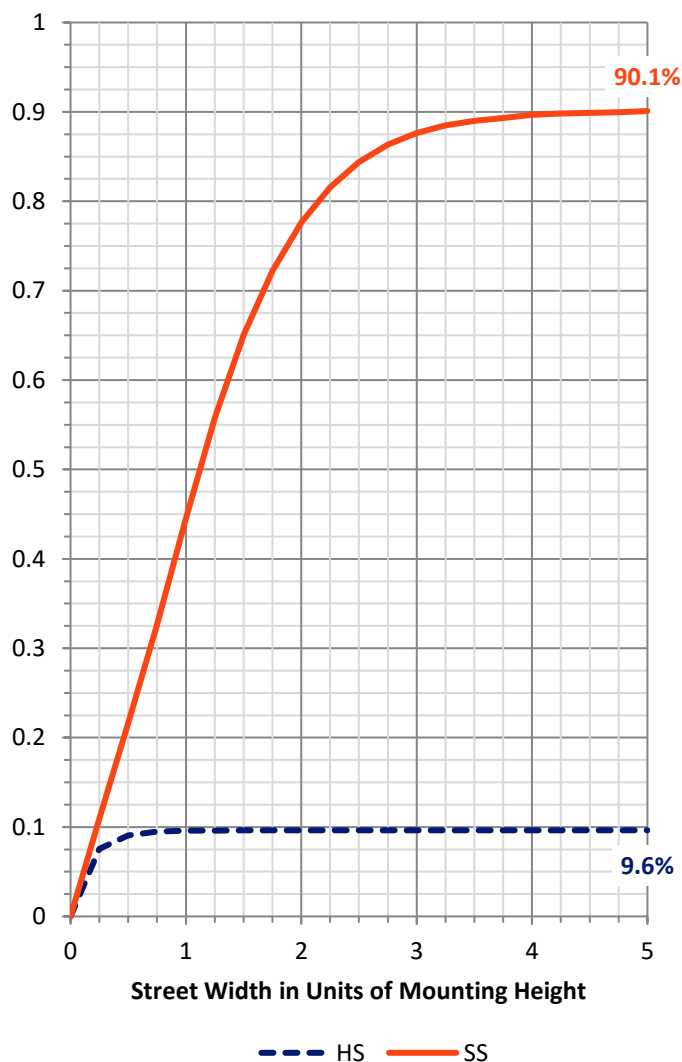
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1187.9	0.0	1187.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	11028.1	0.0	11028.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	12216.0	0.0	12216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.1
10°-20°	350.4	2.9
20°-30°	550.4	4.5
30°-40°	949.3	7.8
40°-50°	1806.1	14.8
50°-60°	2860.2	23.4
60°-70°	3337.6	27.3
70°-80°	2090.3	17.1
80°-90°	137.2	1.1
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°	12216.0	100.0
0°-180°	12216.0	100.0

Coefficient of Utilization



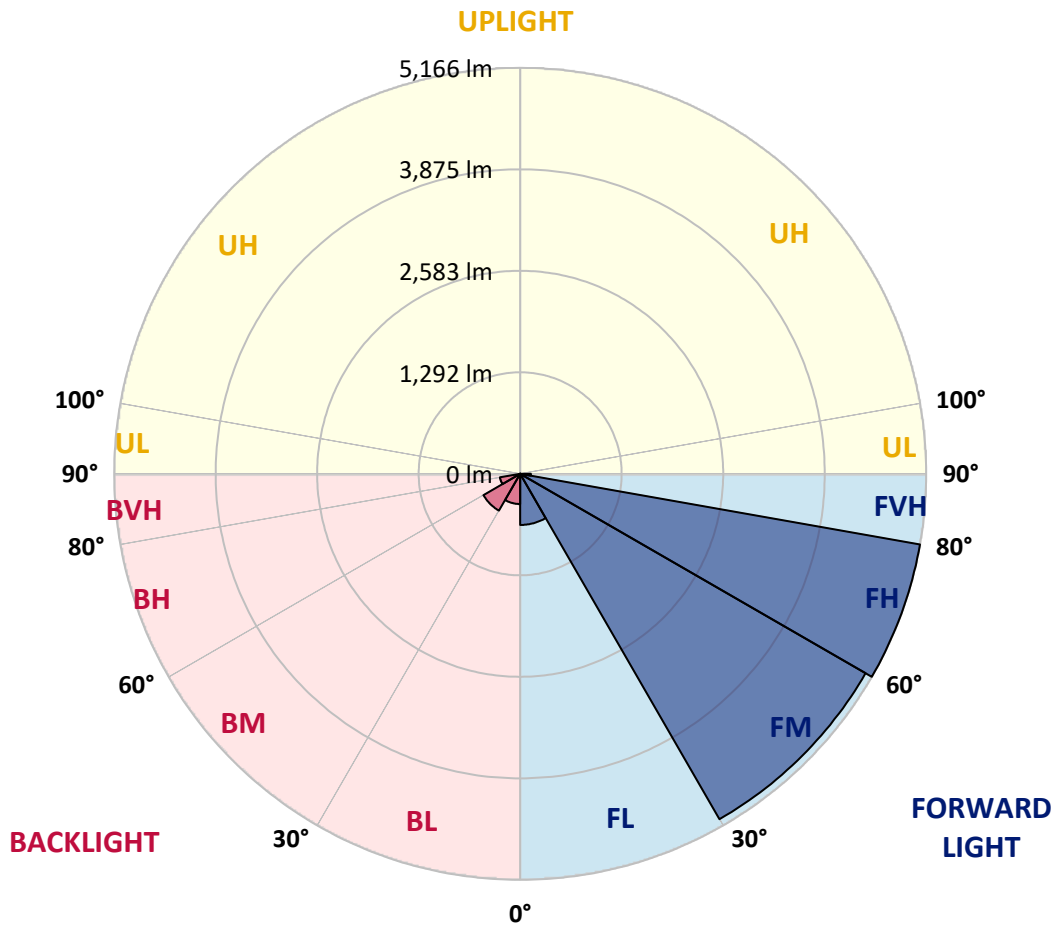
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.7	5.3			
FM (30°-60°)	5075.0	41.5			
FH (60°-80°)	5166.5	42.3			G3/7500
FVH (80°-90°)	135.9	1.1			G2/225
BL (0°-30°)	384.7	3.1	B1/500		
BM (30°-60°)	540.5	4.4	B1/1000		
BH (60°-80°)	261.4	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8
2.5°	1459.3	1452.7	1450.6	1448.4	1450.6	1452.7	1446.2	1452.7	1448.4	1450.6	1454.9
5°	1406.9	1400.3	1398.1	1400.3	1406.9	1417.8	1422.2	1428.7	1428.7	1435.3	1437.4
7.5°	1347.9	1343.5	1341.3	1345.7	1358.8	1382.8	1395.9	1404.7	1413.4	1426.5	1439.6
10°	1315.1	1312.9	1310.7	1317.3	1330.4	1352.2	1369.7	1382.8	1415.6	1452.7	1476.8
12.5°	1293.3	1293.3	1297.6	1310.7	1328.2	1345.7	1387.2	1404.7	1454.9	1511.7	1544.5
15°	1275.8	1275.8	1282.3	1306.4	1330.4	1371.9	1433.1	1452.7	1511.7	1581.6	1625.3
17.5°	1262.7	1267.0	1271.4	1295.4	1341.3	1411.2	1483.3	1511.7	1583.8	1660.3	1708.3
20°	1264.9	1269.2	1271.4	1295.4	1361.0	1457.1	1548.9	1581.6	1664.6	1745.5	1793.5
22.5°	1278.0	1284.5	1286.7	1319.5	1395.9	1505.2	1623.1	1660.3	1749.8	1835.0	1872.2
25°	1332.6	1337.0	1323.8	1352.2	1446.2	1579.4	1719.3	1758.6	1848.1	1926.8	1957.4
27.5°	1518.3	1522.6	1450.6	1417.8	1485.5	1640.6	1837.2	1891.8	2003.2	2055.7	2060.0
30°	1920.2	1924.6	1782.6	1627.5	1579.4	1693.0	1902.8	1979.2	2123.4	2182.4	2156.2
32.5°	2438.0	2433.6	2239.2	2009.8	1802.3	1784.8	1996.7	2077.5	2234.8	2291.6	2272.0
35°	2957.9	2964.5	2798.4	2453.3	2156.2	1957.4	2116.8	2210.8	2400.8	2481.7	2446.7
37.5°	3314.0	3357.7	3285.6	2912.0	2590.9	2276.3	2311.3	2411.8	2649.9	2759.1	2684.8
40°	3816.4	3805.5	3630.8	3355.5	3071.5	2748.2	2625.9	2673.9	2947.0	3093.3	2977.6
42.5°	4491.5	4469.6	4172.5	3903.8	3587.1	3322.7	3073.7	3064.9	3287.8	3458.2	3290.0
45°	5103.2	5070.4	4867.2	4607.3	4259.9	3956.3	3619.8	3543.4	3698.5	3842.7	3646.0
47.5°	5590.3	5535.7	5391.5	5253.9	5168.7	4696.8	4192.2	4076.4	4155.0	4262.1	3984.7
50°	6167.0	6016.3	5806.6	5723.6	5900.5	5535.7	4742.7	4631.3	4626.9	4688.1	4334.2
52.5°	6429.2	6156.1	6038.1	6108.1	6420.4	6315.6	5336.9	5177.4	5114.1	5120.6	4659.7
55°	6112.4	6081.8	6145.2	6363.6	6772.2	6711.0	5907.1	5710.5	5616.5	5498.6	4972.1
57.5°	5752.0	5845.9	6097.1	6514.4	7217.8	7123.9	6468.5	6245.7	6073.1	5802.2	5319.4
60°	5419.9	5516.0	5931.1	6549.3	7462.5	7521.5	6936.0	6724.1	6468.5	6112.4	5701.7
62.5°	4915.3	4989.6	5572.8	6499.1	7355.4	7753.0	7261.5	7102.0	6863.9	6407.3	6140.8
65°	4347.3	4395.4	4972.1	6097.1	7145.7	7726.8	7530.2	7440.6	7209.1	6715.4	6575.6
67.5°	3724.7	3781.5	4262.1	5374.0	6735.0	7604.5	7783.6	7774.9	7510.5	7056.2	6890.1
70°	3008.2	3012.5	3410.1	4456.5	6018.5	7359.8	8098.2	8117.9	7798.9	7311.8	6903.2
72.5°	1439.6	1557.6	2210.8	3110.8	4891.2	6879.2	8303.5	8401.9	7980.2	7303.0	6158.3
75°	329.9	340.8	644.4	1479.0	2868.3	5280.1	7790.2	7973.7	7538.9	6315.6	4338.6
77.5°	120.2	126.7	181.3	432.5	1103.2	2728.5	5575.0	5843.7	5572.8	4083.0	2051.3
80°	80.8	78.6	93.9	192.2	506.8	773.3	2850.9	3010.3	2748.2	1393.8	491.5
82.5°	41.5	43.7	65.5	107.0	340.8	268.7	952.5	1035.5	852.0	279.6	91.8
85°	19.7	19.7	37.1	67.7	144.2	93.9	211.9	255.6	229.4	122.3	30.6
87.5°	19.7	19.7	35.0	43.7	74.3	39.3	52.4	65.5	61.2	65.5	10.9
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°	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8
2.5°	1454.9	1452.7	1450.6	1454.9	1452.7	1457.1	1457.1	1461.5	1461.5	1457.1	1454.9
5°	1435.3	1430.9	1426.5	1426.5	1424.3	1428.7	1441.8	1452.7	1454.9	1448.4	1446.2
7.5°	1437.4	1437.4	1433.1	1424.3	1409.0	1409.0	1409.0	1422.2	1428.7	1424.3	1422.2
10°	1476.8	1479.0	1468.0	1448.4	1422.2	1398.1	1352.2	1284.5	1221.2	1203.7	1197.1
12.5°	1544.5	1546.7	1524.8	1489.9	1435.3	1293.3	1118.5	956.8	832.3	797.4	790.8
15°	1625.3	1627.5	1588.2	1531.4	1365.4	1035.5	775.5	592.0	482.8	456.6	454.4
17.5°	1708.3	1704.0	1645.0	1535.8	1157.8	734.0	471.9	377.9	349.5	343.0	345.2
20°	1789.2	1776.1	1695.2	1454.9	891.3	480.6	345.2	323.3	316.8	312.4	312.4
22.5°	1863.4	1837.2	1736.7	1295.4	624.8	345.2	308.0	303.7	294.9	288.4	286.2
25°	1937.7	1900.6	1762.9	1087.9	419.4	301.5	290.5	281.8	270.9	262.1	260.0
27.5°	2027.3	1974.9	1749.8	825.8	314.6	279.6	270.9	257.8	242.5	229.4	225.0
30°	2112.5	2053.5	1675.6	570.2	268.7	257.8	244.7	225.0	205.3	190.1	185.7
32.5°	2219.5	2151.8	1542.3	373.6	233.7	225.0	211.9	187.9	161.7	144.2	139.8
35°	2372.4	2296.0	1371.9	262.1	205.3	190.1	172.6	146.4	118.0	104.9	102.7
37.5°	2586.5	2483.9	1157.8	211.9	181.3	159.5	133.3	107.0	87.4	76.5	74.3
40°	2848.7	2691.4	919.7	187.9	161.7	133.3	100.5	76.5	63.4	54.6	54.6
42.5°	3132.7	2885.8	677.2	172.6	142.0	109.2	74.3	54.6	45.9	41.5	39.3
45°	3425.4	3058.4	456.6	159.5	124.5	83.0	52.4	37.1	30.6	30.6	28.4
47.5°	3729.1	3174.2	294.9	144.2	104.9	61.2	35.0	26.2	21.8	21.8	21.8
50°	4030.5	3235.3	209.7	131.1	85.2	41.5	26.2	19.7	17.5	17.5	17.5
52.5°	4249.0	3196.0	168.2	113.6	65.5	30.6	19.7	15.3	13.1	13.1	13.1
55°	4439.0	3128.3	146.4	98.3	48.1	21.8	15.3	13.1	10.9	10.9	10.9
57.5°	4633.5	3040.9	131.1	83.0	35.0	15.3	10.9	8.7	8.7	8.7	8.7
60°	4810.4	2892.4	113.6	65.5	24.0	10.9	8.7	6.6	6.6	6.6	6.6
62.5°	4983.0	2765.7	98.3	50.2	17.5	8.7	4.4	4.4	2.2	2.2	2.2
65°	5081.3	2595.3	78.6	32.8	10.9	6.6	2.2	2.2	0.0	0.0	0.0
67.5°	5050.7	2392.1	54.6	19.7	6.6	4.4	2.2	0.0	0.0	0.0	0.0
70°	4838.8	2119.0	32.8	10.9	6.6	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	4052.4	1568.5	19.7	8.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2706.7	720.9	10.9	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1238.7	216.3	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	249.0	56.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.4	10.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	0.0	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)