

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: P399176

Luminaire Tested: **ARCH-L-PA3-100-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399176
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-PA3-100-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 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: 9185 lumens
Efficiency: N/A
Efficacy: 90.0 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

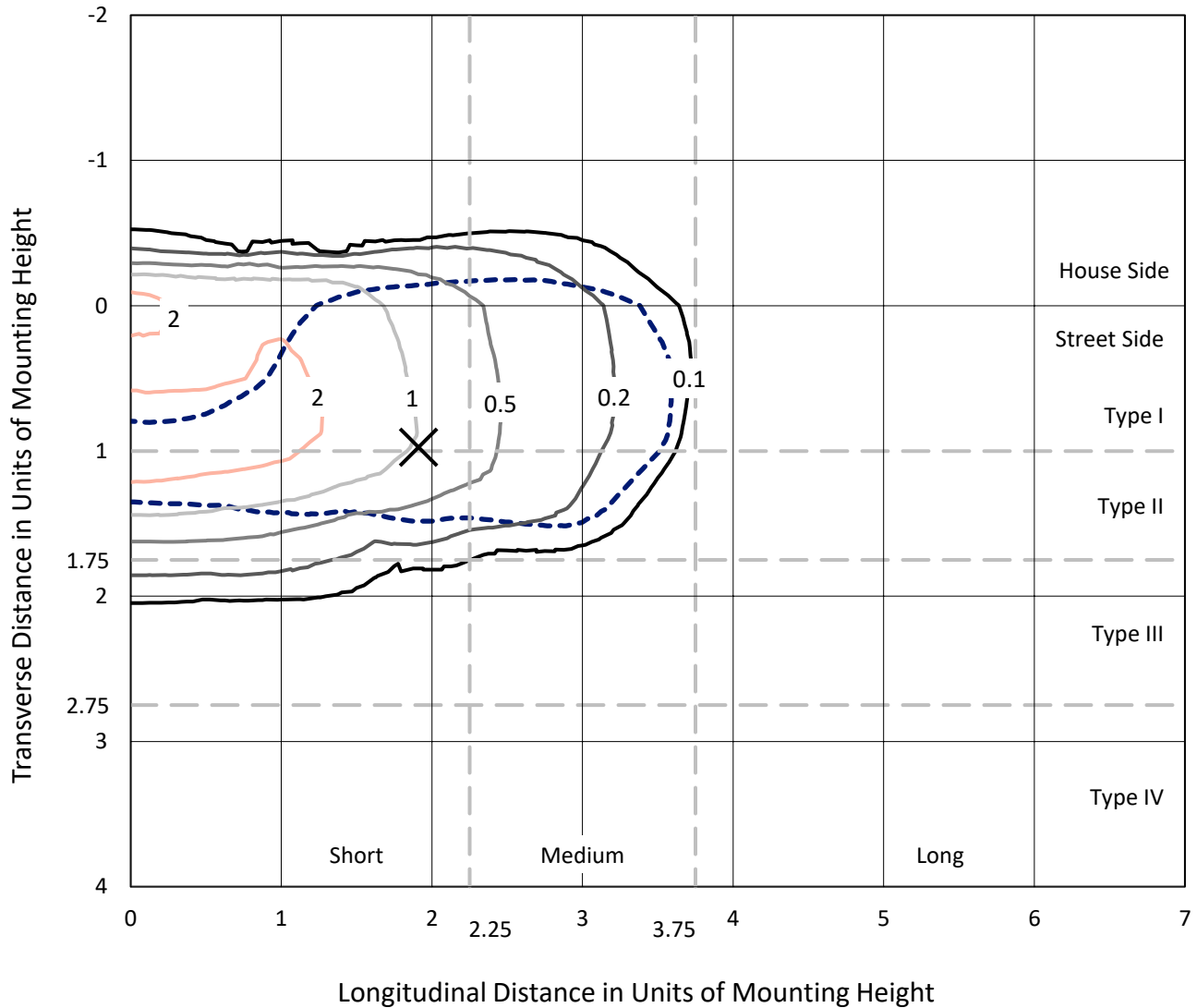
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

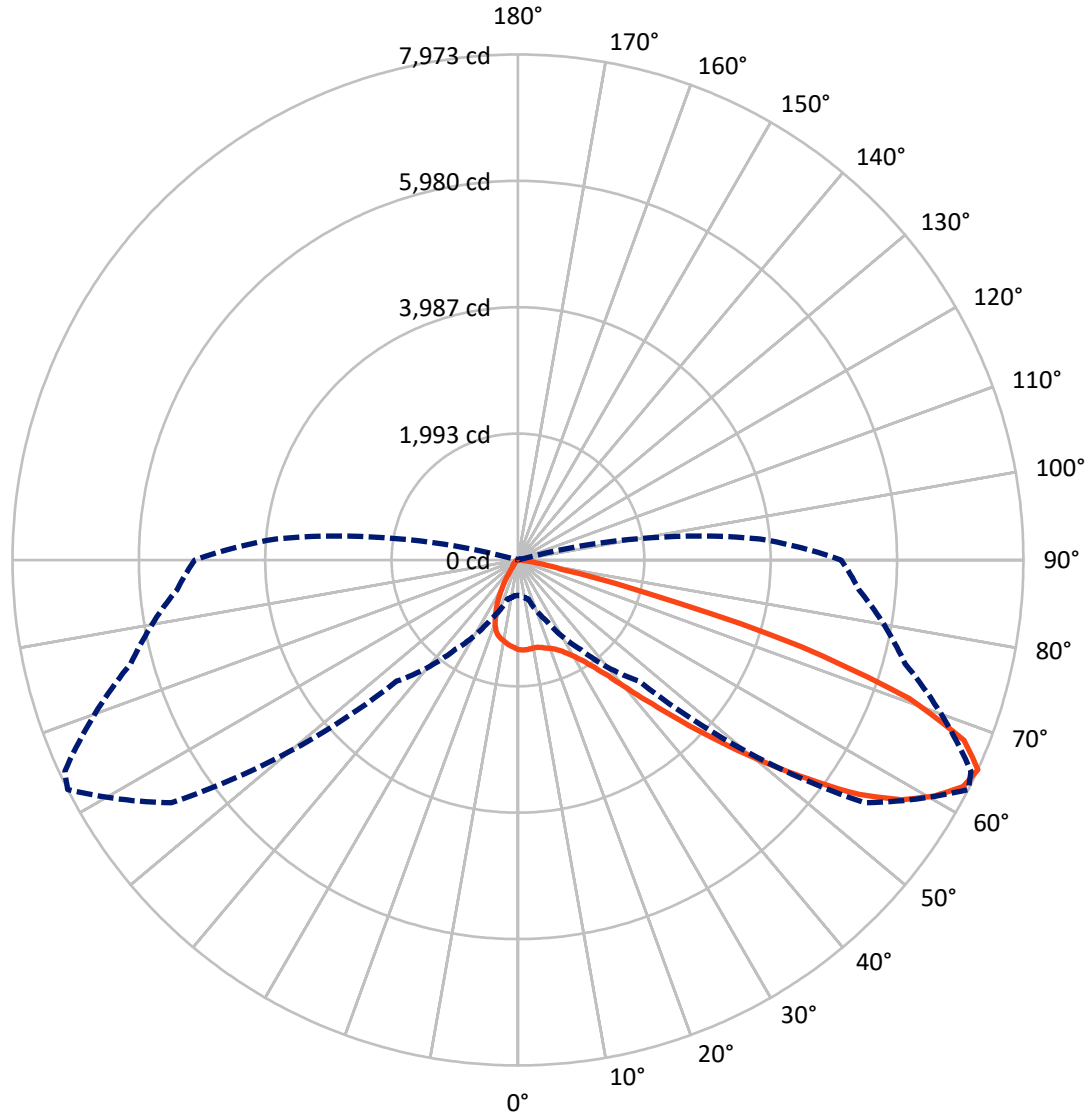
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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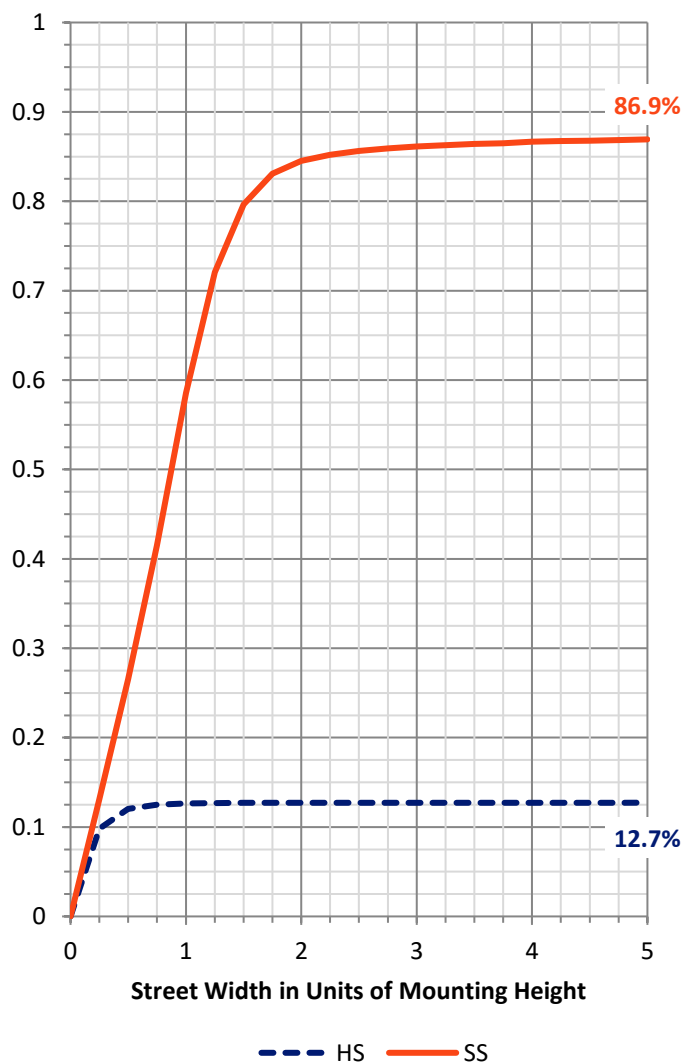
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.1	0.0	1182.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	8002.9	0.0	8002.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	9185.0	0.0	9185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.4
10°-20°	318.5	3.5
20°-30°	472.1	5.1
30°-40°	876.5	9.5
40°-50°	1856.9	20.2
50°-60°	2567.6	28.0
60°-70°	2055.4	22.4
70°-80°	854.0	9.3
80°-90°	54.8	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°	9185.0	100.0
0°-180°	9185.0	100.0

Coefficient of Utilization

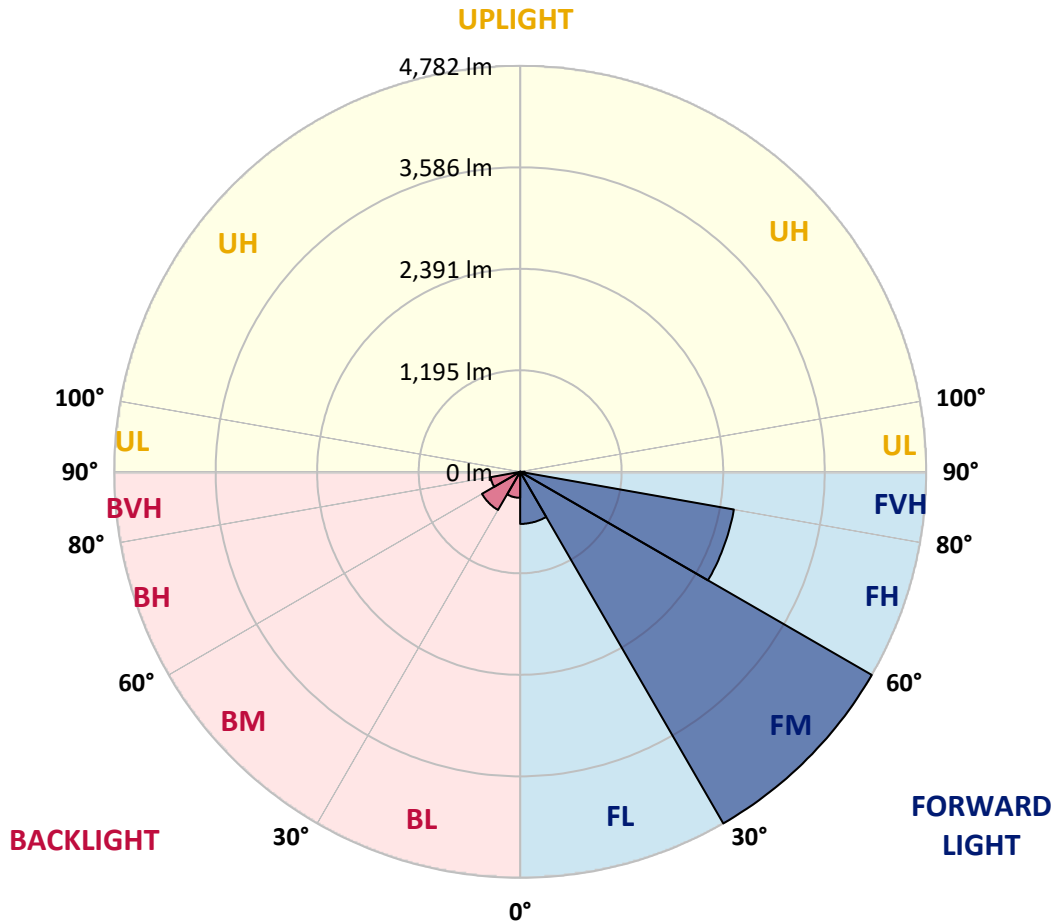


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.3	6.7			
FM (30°-60°)	4781.8	52.1			
FH (60°-80°)	2555.5	27.8			G2/5000
FVH (80°-90°)	52.3	0.6			G1/100
BL (0°-30°)	306.4	3.3	B1/500		
BM (30°-60°)	519.3	5.7	B1/1000		
BH (60°-80°)	354.0	3.9	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0
2.5°	1439.2	1435.8	1432.3	1430.6	1430.6	1428.8	1421.9	1420.2	1416.7	1413.2	1409.8
5°	1425.4	1420.2	1418.4	1420.2	1421.9	1425.4	1421.9	1421.9	1418.4	1415.0	1408.0
7.5°	1390.7	1387.2	1388.9	1394.1	1395.9	1408.0	1409.8	1415.0	1415.0	1411.5	1406.3
10°	1349.1	1347.3	1347.3	1356.0	1364.7	1382.0	1394.1	1408.0	1409.8	1409.8	1401.1
12.5°	1317.8	1316.1	1321.3	1331.7	1349.1	1371.6	1392.4	1413.2	1416.7	1418.4	1404.6
15°	1298.8	1298.8	1305.7	1326.5	1350.8	1382.0	1406.3	1434.0	1437.5	1435.8	1416.7
17.5°	1281.4	1283.2	1297.0	1331.7	1359.5	1401.1	1430.6	1461.8	1463.5	1461.8	1430.6
20°	1274.5	1278.0	1298.8	1343.9	1375.1	1421.9	1460.0	1491.3	1493.0	1486.0	1444.4
22.5°	1293.6	1295.3	1321.3	1369.9	1399.3	1451.4	1499.9	1529.4	1531.1	1520.7	1465.2
25°	1359.5	1359.5	1382.0	1423.6	1449.6	1501.7	1553.7	1588.4	1588.4	1576.2	1512.1
27.5°	1513.8	1499.9	1494.7	1506.9	1515.5	1571.0	1626.5	1669.9	1668.1	1650.8	1572.7
30°	1812.0	1777.4	1721.9	1659.4	1628.2	1666.4	1718.4	1773.9	1772.2	1744.4	1647.3
32.5°	2313.2	2262.9	2131.1	1966.4	1832.9	1789.5	1838.1	1898.7	1900.5	1867.5	1767.0
35°	3015.4	2935.7	2699.9	2471.0	2165.8	2001.1	2014.9	2080.8	2101.6	2084.3	1968.1
37.5°	3691.7	3618.9	3393.5	3076.1	2661.7	2325.3	2266.4	2323.6	2347.9	2347.9	2224.7
40°	4373.2	4288.2	4088.8	3769.7	3332.8	2831.6	2620.1	2666.9	2692.9	2698.1	2536.9
42.5°	4919.4	4863.9	4711.3	4463.3	4054.1	3719.5	3129.9	3103.9	3128.2	3109.1	2899.3
45°	5297.4	5254.1	5148.3	5054.6	4855.2	4687.0	3811.4	3636.2	3651.8	3585.9	3306.8
47.5°	5375.4	5326.9	5304.3	5434.4	5576.6	5618.2	4648.9	4269.1	4253.5	4107.9	3729.9
50°	5035.6	5040.8	5124.0	5495.1	6088.1	6462.7	5619.9	4983.6	4926.3	4602.1	4123.5
52.5°	4302.1	4385.3	4595.1	5196.8	6244.2	7076.5	6591.0	5741.3	5652.9	5082.4	4418.3
55°	3365.7	3473.2	3818.3	4510.2	5918.2	7350.5	7409.4	6528.6	6327.4	5443.1	4647.2
57.5°	2502.2	2535.1	2937.4	3568.6	5146.5	7081.7	7829.1	7135.5	6877.1	5730.9	4874.3
60°	1558.9	1579.7	2004.5	2717.2	3898.1	6088.1	7829.1	7553.4	7307.1	5989.3	5082.4
62.5°	969.3	976.2	1135.8	1862.3	2649.6	4515.4	7504.8	7877.6	7679.9	6174.8	5261.0
65°	558.4	565.3	639.9	1052.5	1723.6	2703.3	6675.9	7973.0	7884.6	6322.2	5399.7
67.5°	407.5	411.0	440.4	591.3	1127.1	1388.9	5014.8	7589.8	7700.7	6395.0	5396.2
70°	353.7	358.9	397.1	461.2	813.3	853.1	2552.5	6554.6	6865.0	6291.0	5235.0
72.5°	272.2	279.2	336.4	433.5	596.5	613.8	924.2	4664.5	5134.4	5640.7	4792.8
75°	187.3	194.2	251.4	357.2	492.5	459.5	508.1	2146.7	2708.5	3783.6	3648.4
77.5°	119.6	121.4	157.8	260.1	424.8	326.0	348.5	700.5	983.2	1711.5	1721.9
80°	79.8	81.5	97.1	168.2	291.3	301.7	215.0	324.3	355.5	499.4	346.8
82.5°	48.6	48.6	65.9	105.8	176.9	249.7	140.5	169.9	182.1	192.5	90.2
85°	19.1	19.1	39.9	69.4	111.0	116.2	88.4	98.8	104.0	112.7	41.6
87.5°	5.2	5.2	22.5	38.1	48.6	53.8	53.8	48.6	52.0	64.2	20.8
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°	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0	1415.0
2.5°	1408.0	1402.8	1395.9	1388.9	1382.0	1376.8	1371.6	1371.6	1368.1	1362.9	1359.5
5°	1404.6	1395.9	1380.3	1368.1	1349.1	1335.2	1324.8	1316.1	1310.9	1298.8	1297.0
7.5°	1399.3	1388.9	1366.4	1342.1	1310.9	1286.6	1262.4	1245.0	1227.7	1213.8	1210.3
10°	1390.7	1378.5	1345.6	1310.9	1267.6	1222.5	1165.3	1099.4	1038.7	1004.0	993.6
12.5°	1390.7	1375.1	1331.7	1284.9	1222.5	1111.5	965.8	820.2	707.5	657.2	643.3
15°	1399.3	1378.5	1321.3	1257.2	1141.0	915.6	679.7	487.3	364.1	326.0	317.3
17.5°	1408.0	1378.5	1305.7	1219.0	991.9	664.1	386.7	256.6	216.8	208.1	208.1
20°	1411.5	1375.1	1284.9	1147.9	792.4	412.7	230.6	192.5	176.9	171.7	171.7
22.5°	1425.4	1376.8	1269.3	1045.6	575.7	242.8	182.1	161.3	145.7	140.5	140.5
25°	1460.0	1397.6	1272.8	915.6	369.3	183.8	154.3	133.5	117.9	111.0	111.0
27.5°	1515.5	1444.4	1291.8	764.7	232.4	157.8	130.1	107.5	95.4	88.4	88.4
30°	1578.0	1496.5	1300.5	591.3	173.4	133.5	105.8	85.0	76.3	71.1	69.4
32.5°	1687.2	1586.6	1293.6	405.8	142.2	112.7	85.0	67.6	60.7	59.0	59.0
35°	1862.3	1744.4	1279.7	254.9	117.9	90.2	67.6	55.5	50.3	48.6	46.8
37.5°	2099.9	1975.0	1238.1	168.2	97.1	71.1	55.5	46.8	41.6	39.9	39.9
40°	2389.5	2238.6	1158.3	128.3	83.2	57.2	46.8	39.9	36.4	34.7	34.7
42.5°	2720.7	2531.7	1031.7	111.0	69.4	48.6	39.9	32.9	31.2	29.5	29.5
45°	3083.1	2838.6	856.6	98.8	59.0	39.9	32.9	29.5	26.0	26.0	24.3
47.5°	3468.0	3147.2	658.9	86.7	50.3	34.7	29.5	24.3	22.5	20.8	20.8
50°	3839.1	3422.9	463.0	74.6	41.6	29.5	24.3	20.8	19.1	17.3	17.3
52.5°	4100.9	3589.4	327.7	64.2	34.7	26.0	19.1	15.6	13.9	13.9	13.9
55°	4310.8	3693.4	228.9	53.8	29.5	22.5	15.6	12.1	12.1	10.4	10.4
57.5°	4508.4	3761.1	168.2	45.1	24.3	17.3	12.1	8.7	8.7	6.9	6.9
60°	4713.0	3797.5	128.3	36.4	20.8	13.9	8.7	6.9	5.2	5.2	5.2
62.5°	4919.4	3820.0	98.8	29.5	17.3	10.4	6.9	5.2	3.5	1.7	1.7
65°	5099.7	3827.0	76.3	22.5	13.9	6.9	5.2	1.7	0.0	0.0	0.0
67.5°	5153.5	3747.2	59.0	17.3	10.4	5.2	3.5	0.0	0.0	0.0	0.0
70°	5007.8	3535.7	45.1	13.9	8.7	3.5	1.7	0.0	0.0	0.0	0.0
72.5°	4444.3	2965.2	34.7	8.7	6.9	3.5	1.7	0.0	0.0	0.0	0.0
75°	3180.2	1581.4	24.3	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	1463.5	612.1	17.3	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
80°	286.1	152.6	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.9	26.0	3.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.5	8.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.5	1.7	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)