

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: P572812

Luminaire Tested: **ARCH-S-PA2-120-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9583 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

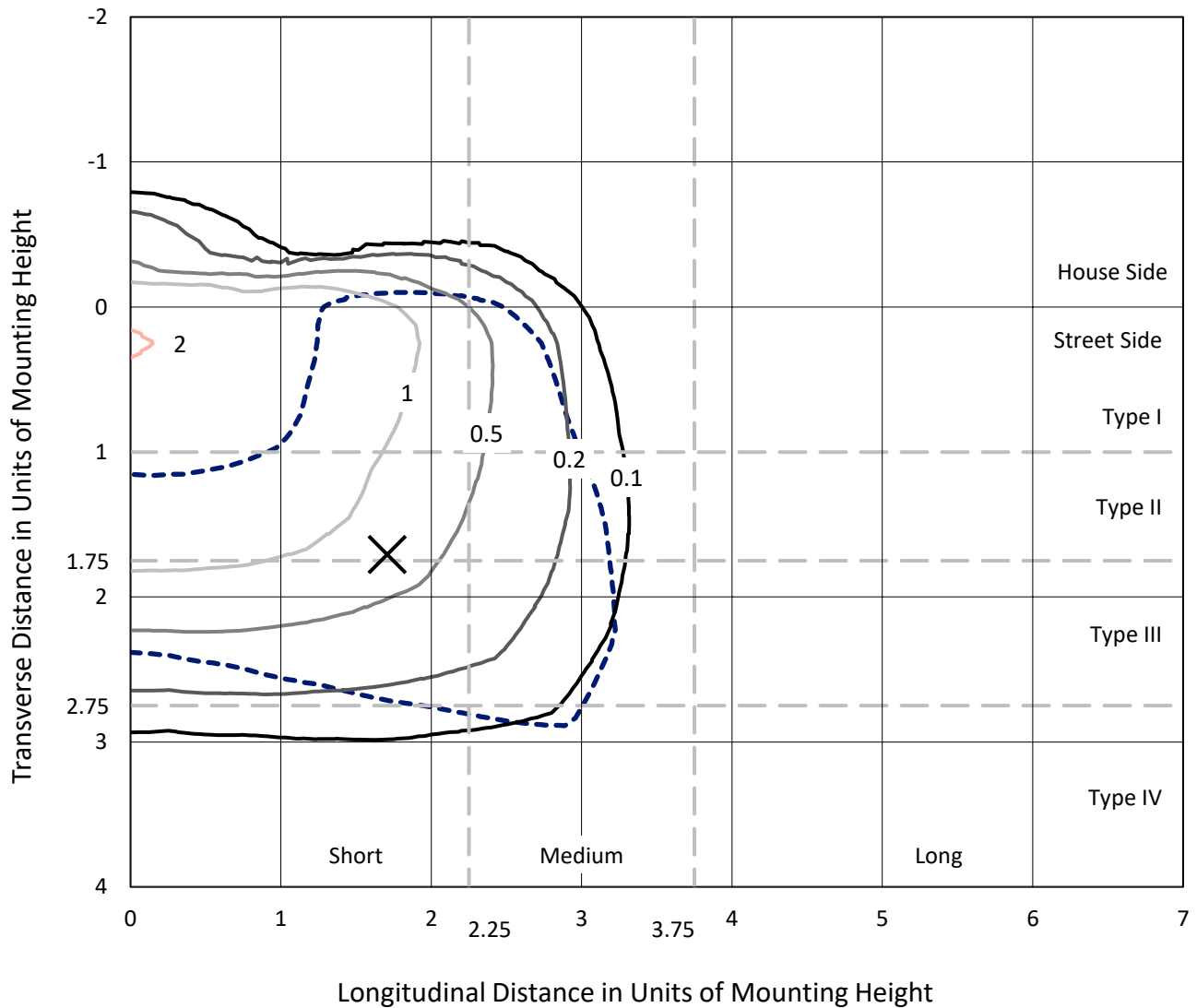
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

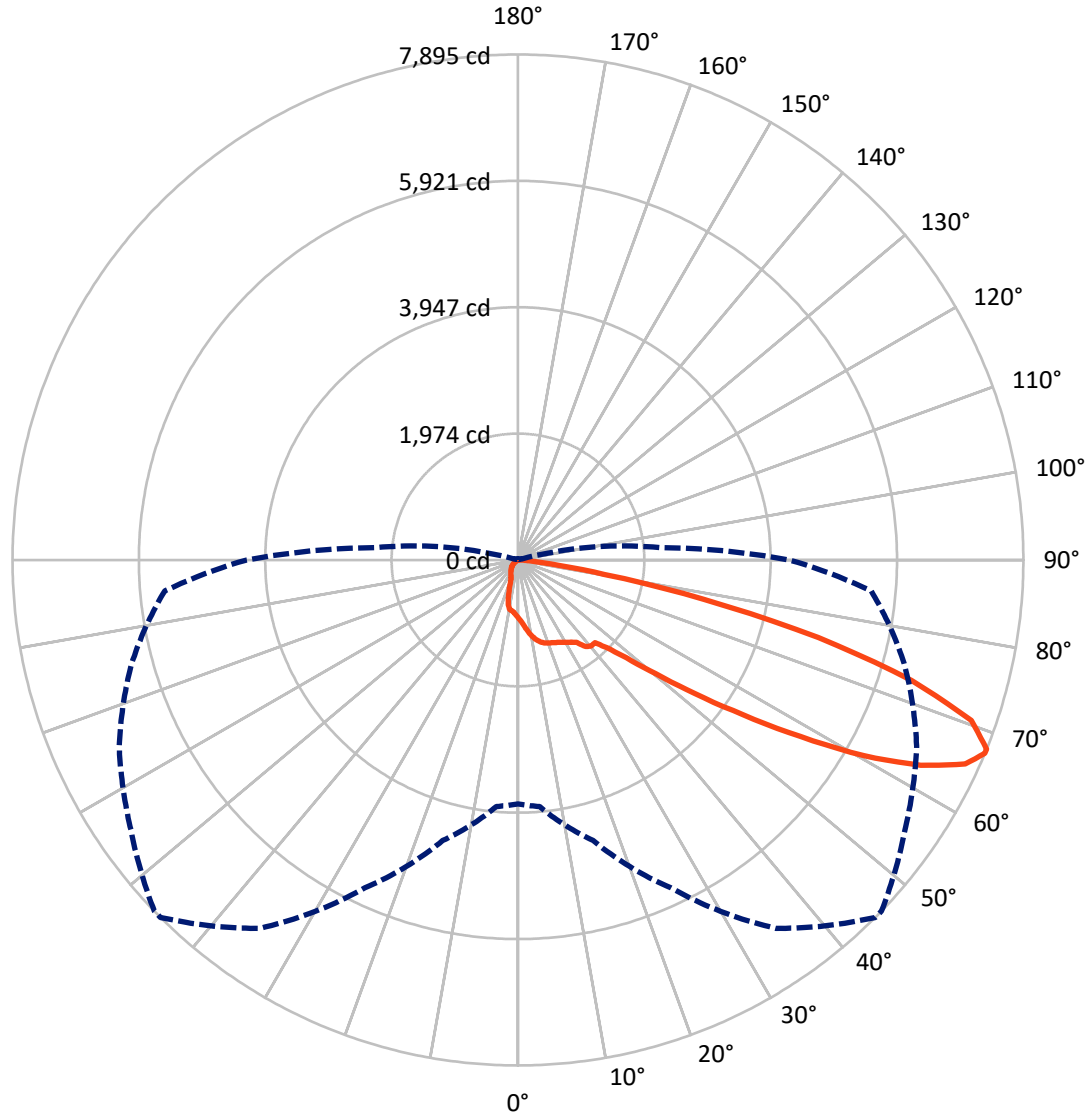
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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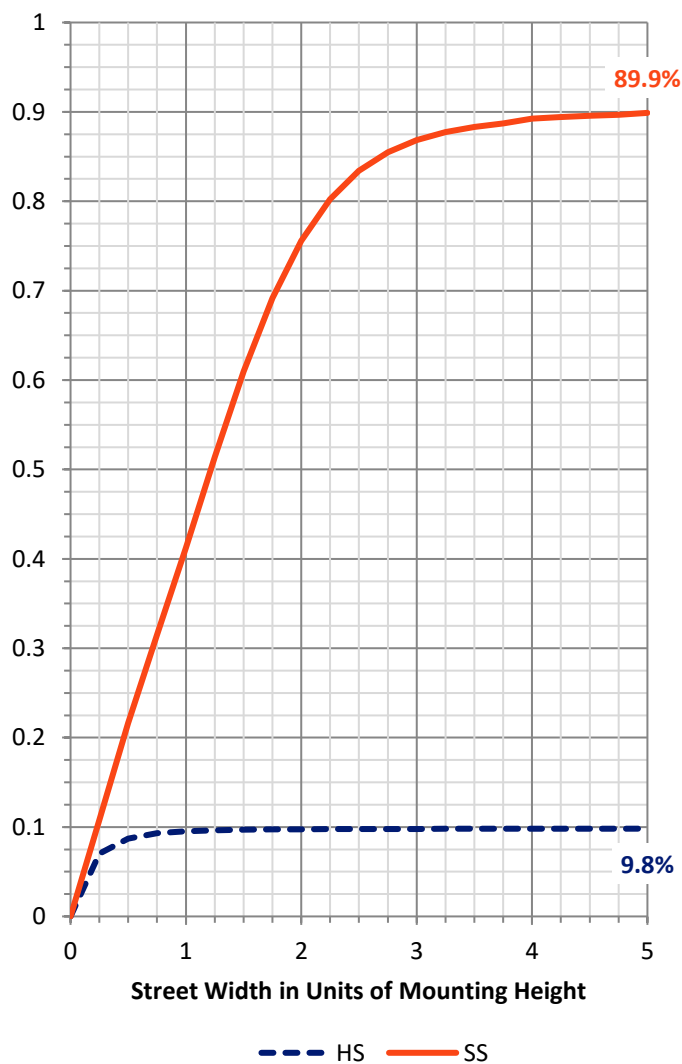
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.5	0.0	949.5
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	8633.5	0.0	8633.5
	% Fixture	90.1	0.0	90.1
Total	Lumens	9583.0	0.0	9583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	0.9
10°-20°	275.0	2.9
20°-30°	439.9	4.6
30°-40°	633.1	6.6
40°-50°	1110.6	11.6
50°-60°	2340.1	24.4
60°-70°	3236.1	33.8
70°-80°	1354.8	14.1
80°-90°	102.4	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°	9583.0	100.0
0°-180°	9583.0	100.0

Coefficient of Utilization



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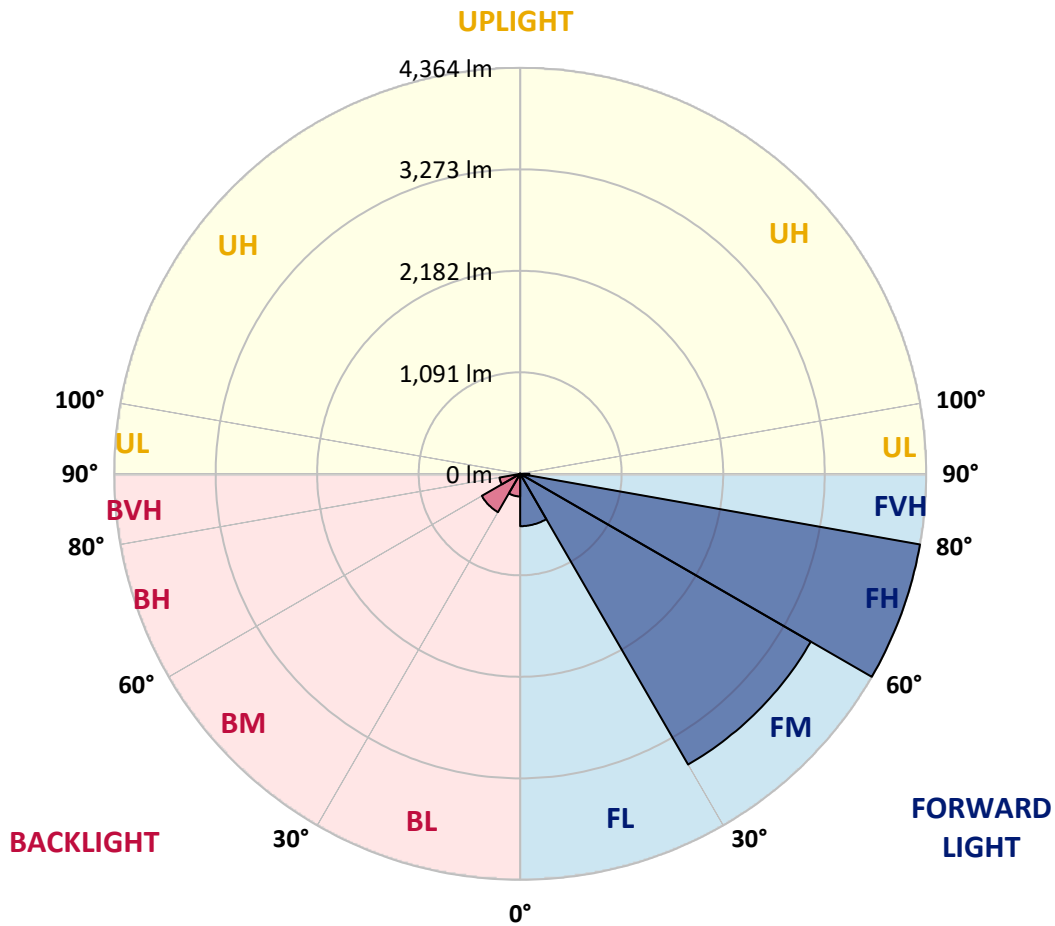
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.5	5.9			
FM (30°-60°)	3608.1	37.7			
FH (60°-80°)	4363.9	45.5			G2/5000
FVH (80°-90°)	99.0	1.0			G1/100
BL (0°-30°)	243.4	2.5	B1/500		
BM (30°-60°)	475.7	5.0	B1/1000		
BH (60°-80°)	227.0	2.4	B1/500		G1/500
BVH (80°-90°)	3.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	1009.0	991.3	987.7	984.2	973.6	959.4	962.9	952.3	934.6	924.0	913.4
5°	1132.9	1115.2	1108.1	1086.8	1065.6	1033.7	1033.7	1005.4	973.6	945.2	916.9
7.5°	1260.3	1246.2	1232.0	1200.1	1168.3	1125.8	1122.2	1079.8	1030.2	987.7	941.7
10°	1366.5	1355.9	1338.2	1299.3	1256.8	1210.8	1200.1	1161.2	1097.5	1040.8	980.6
12.5°	1451.5	1440.9	1416.1	1377.1	1324.0	1278.0	1274.5	1224.9	1161.2	1101.0	1026.7
15°	1515.2	1497.5	1469.2	1426.7	1373.6	1331.1	1324.0	1281.6	1221.4	1154.1	1065.6
17.5°	1525.8	1515.2	1490.4	1444.4	1398.4	1363.0	1359.4	1327.6	1274.5	1203.7	1111.6
20°	1497.5	1494.0	1472.7	1437.3	1401.9	1384.2	1380.7	1359.4	1317.0	1253.2	1161.2
22.5°	1455.0	1451.5	1437.3	1419.6	1405.5	1401.9	1401.9	1394.8	1370.1	1309.9	1224.9
25°	1426.7	1423.2	1416.1	1405.5	1405.5	1426.7	1430.2	1437.3	1416.1	1370.1	1278.0
27.5°	1430.2	1423.2	1416.1	1405.5	1419.6	1458.6	1462.1	1479.8	1462.1	1419.6	1338.2
30°	1479.8	1469.2	1447.9	1423.2	1440.9	1494.0	1497.5	1518.8	1504.6	1483.3	1405.5
32.5°	1557.7	1550.6	1508.1	1465.6	1476.3	1529.4	1536.5	1575.4	1593.1	1561.2	1465.6
35°	1671.0	1646.2	1593.1	1550.6	1543.5	1582.5	1593.1	1656.8	1702.8	1625.0	1501.0
37.5°	1763.0	1741.8	1656.8	1589.6	1628.5	1717.0	1720.5	1798.4	1759.5	1632.0	1557.7
40°	2074.6	2071.0	1922.3	1709.9	1667.4	1766.6	1780.7	1794.9	1777.2	1713.5	1681.6
42.5°	2577.3	2534.8	2368.4	2042.7	1752.4	1763.0	1770.1	1844.4	1936.5	1908.2	1918.8
45°	3122.5	3087.1	2899.4	2488.8	2042.7	1954.2	1961.3	2081.6	2258.7	2294.1	2350.7
47.5°	3625.2	3568.5	3462.3	3048.1	2538.3	2279.9	2294.1	2439.2	2733.0	2810.9	2899.4
50°	4050.0	4011.1	3911.9	3639.3	3147.2	2793.2	2807.4	2927.8	3310.1	3434.0	3547.3
52.5°	4666.0	4612.9	4421.7	4294.3	3922.6	3462.3	3430.5	3557.9	3996.9	4078.3	4230.6
55°	5232.4	5122.7	5009.4	4956.3	4800.5	4262.4	4251.8	4276.6	4641.2	4683.7	4956.3
57.5°	5473.2	5451.9	5547.5	5724.5	5759.9	5204.1	5158.1	5062.5	5349.3	5345.7	5664.3
60°	5625.4	5625.4	5880.3	6319.3	6602.5	6209.5	6145.8	5848.4	5951.1	5954.6	6248.5
62.5°	5529.8	5554.6	5951.1	6613.1	7183.1	7062.7	7020.2	6521.1	6514.0	6432.6	6535.2
65°	4938.6	4981.1	5618.3	6450.3	7395.5	7678.7	7661.0	7094.6	6889.2	6591.9	6361.8
67°	4028.8	4106.6	4878.4	5862.6	7154.8	7891.1	7894.7	7342.4	6892.8	6326.4	5749.3
67.5°	3809.3	3865.9	4535.0	5650.2	7023.8	7894.7	7894.7	7374.3	6871.5	6244.9	5536.9
70°	2428.6	2442.7	3172.0	4372.2	6000.7	7512.3	7540.6	7133.5	6259.1	5055.4	3887.2
72.5°	1200.1	1168.3	1674.5	2814.5	4503.1	6429.0	6503.4	6092.7	4952.8	3303.0	2053.3
75°	470.8	502.7	729.3	1497.5	2821.5	4846.5	4903.2	4432.3	3186.2	1702.8	810.7
77.5°	208.9	208.9	311.5	672.6	1483.3	2973.8	3002.1	2704.7	1681.6	701.0	247.8
80°	113.3	120.4	162.8	293.8	747.0	1366.5	1490.4	1341.7	761.1	308.0	85.0
82.5°	56.6	60.2	99.1	166.4	375.3	516.9	545.2	570.0	350.5	191.2	35.4
85°	21.2	24.8	53.1	95.6	169.9	173.5	173.5	223.0	191.2	145.1	17.7
87.5°	3.5	7.1	24.8	38.9	67.3	60.2	53.1	70.8	106.2	92.0	10.6
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°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	906.3	899.2	885.1	874.4	867.4	860.3	853.2	853.2	849.7	849.7	853.2
5°	906.3	892.1	863.8	846.1	831.9	821.3	814.2	814.2	810.7	814.2	817.8
7.5°	924.0	902.8	863.8	831.9	814.2	796.5	789.5	785.9	785.9	789.5	785.9
10°	952.3	924.0	874.4	831.9	807.2	782.4	743.4	708.0	676.2	662.0	658.5
12.5°	987.7	952.3	892.1	842.6	803.6	718.7	612.5	545.2	502.7	481.5	474.4
15°	1026.7	984.2	913.4	856.7	750.5	591.2	453.1	378.8	354.0	357.6	361.1
17.5°	1069.1	1023.1	945.2	849.7	644.3	439.0	332.8	315.1	325.7	336.3	336.3
20°	1111.6	1062.1	977.1	796.5	506.3	325.7	297.4	300.9	311.5	322.2	322.2
22.5°	1168.3	1115.2	1009.0	704.5	375.3	283.2	283.2	290.3	297.4	308.0	308.0
25°	1228.5	1175.3	1030.2	591.2	279.7	265.5	269.1	276.1	283.2	293.8	293.8
27.5°	1292.2	1239.1	1026.7	456.7	244.3	244.3	247.8	258.4	265.5	276.1	276.1
30°	1363.0	1317.0	987.7	332.8	226.6	223.0	223.0	233.7	244.3	251.4	254.9
32.5°	1423.2	1384.2	920.5	251.4	212.4	205.3	201.8	205.3	216.0	223.0	226.6
35°	1472.7	1458.6	821.3	216.0	198.3	187.6	180.6	177.0	180.6	180.6	184.1
37.5°	1564.8	1568.3	704.5	201.8	187.6	173.5	159.3	148.7	141.6	138.1	134.5
40°	1738.2	1734.7	580.6	191.2	177.0	159.3	138.1	123.9	106.2	99.1	99.1
42.5°	1982.5	1929.4	442.5	180.6	166.4	145.1	116.8	95.6	77.9	74.3	74.3
45°	2421.5	2202.0	332.8	173.5	155.8	127.4	95.6	70.8	60.2	56.6	56.6
47.5°	2906.5	2517.1	265.5	162.8	145.1	113.3	74.3	56.6	46.0	46.0	46.0
50°	3441.1	2818.0	223.0	152.2	127.4	95.6	60.2	46.0	42.5	38.9	42.5
52.5°	4025.2	3055.2	194.7	138.1	109.7	77.9	49.6	42.5	35.4	35.4	35.4
55°	4549.2	3214.5	162.8	120.4	92.0	63.7	46.0	35.4	31.9	28.3	24.8
57.5°	5023.6	3299.5	131.0	102.7	70.8	53.1	38.9	28.3	24.8	17.7	17.7
60°	5267.8	3221.6	102.7	81.4	56.6	42.5	31.9	24.8	17.7	10.6	10.6
62.5°	5306.8	3019.8	81.4	63.7	49.6	35.4	24.8	17.7	10.6	7.1	7.1
65°	4966.9	2665.8	67.3	53.1	38.9	28.3	21.2	14.2	7.1	3.5	3.5
67°	4358.0	2294.1	60.2	46.0	35.4	24.8	17.7	10.6	7.1	3.5	0.0
67.5°	4237.6	2226.8	56.6	46.0	35.4	24.8	17.7	10.6	7.1	3.5	0.0
70°	2782.6	1540.0	53.1	42.5	31.9	21.2	14.2	10.6	3.5	0.0	0.0
72.5°	1518.8	775.3	49.6	38.9	28.3	21.2	14.2	7.1	3.5	0.0	0.0
75°	555.8	293.8	42.5	35.4	24.8	21.2	14.2	7.1	3.5	0.0	0.0
77.5°	187.6	102.7	38.9	35.4	28.3	21.2	14.2	7.1	3.5	0.0	0.0
80°	63.7	46.0	31.9	28.3	21.2	17.7	14.2	7.1	3.5	0.0	0.0
82.5°	24.8	14.2	10.6	10.6	10.6	14.2	14.2	10.6	3.5	0.0	0.0
85°	10.6	7.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0
87.5°	10.6	7.1	3.5	3.5	3.5	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)