

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: P572821

Luminaire Tested: **ARCH-S-PA2-120-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572821
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-PA2-120-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 10436 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

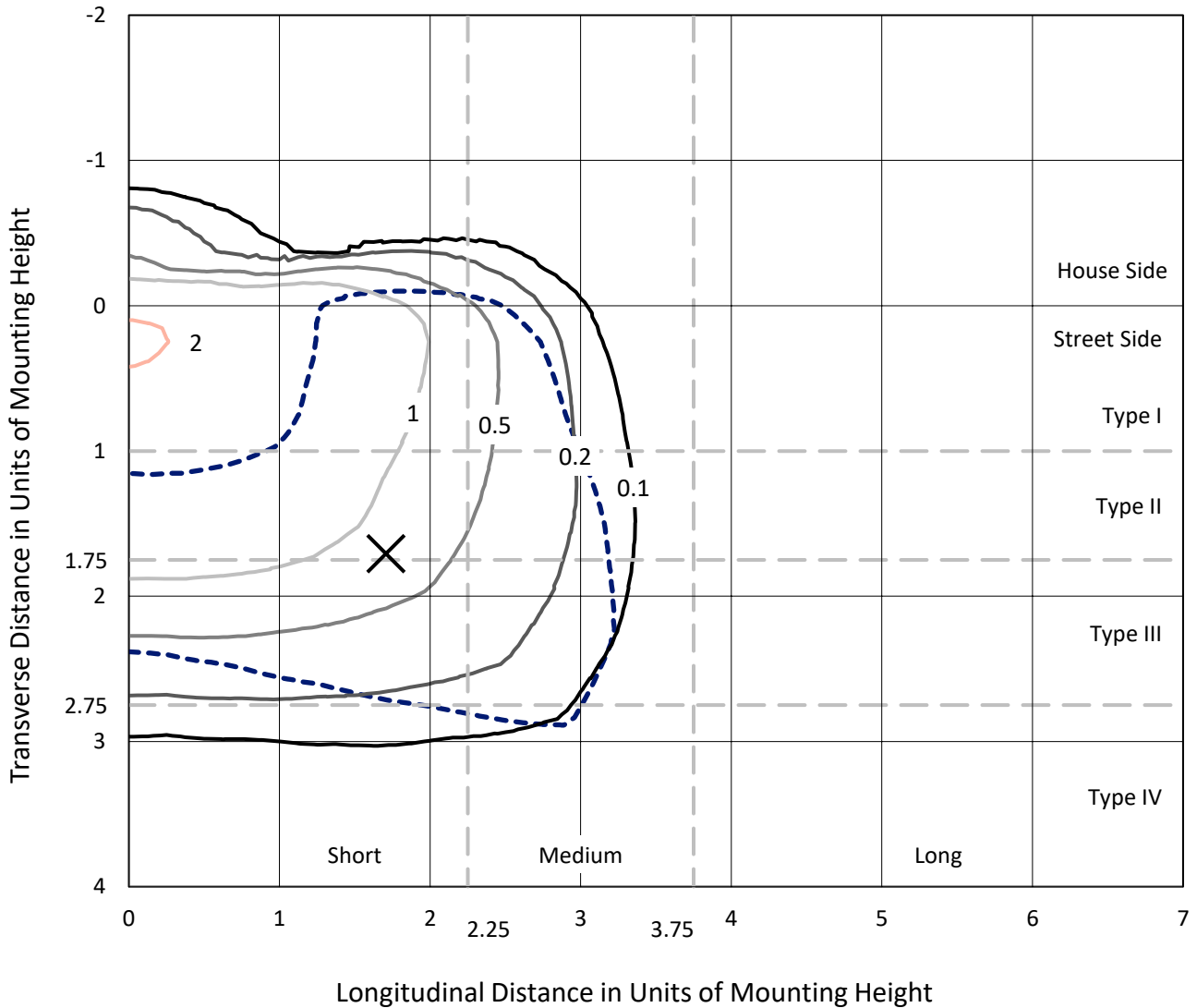
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

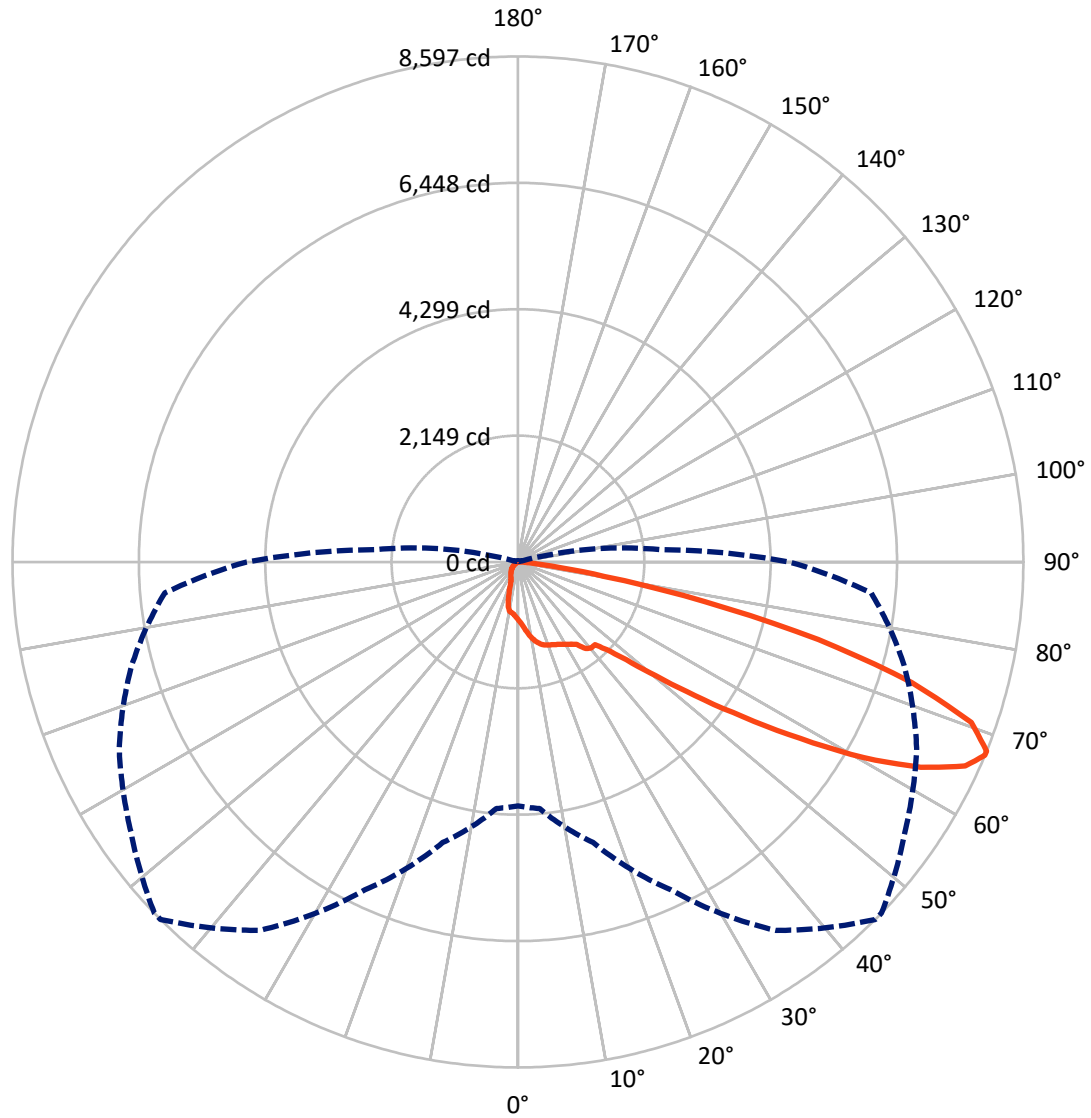
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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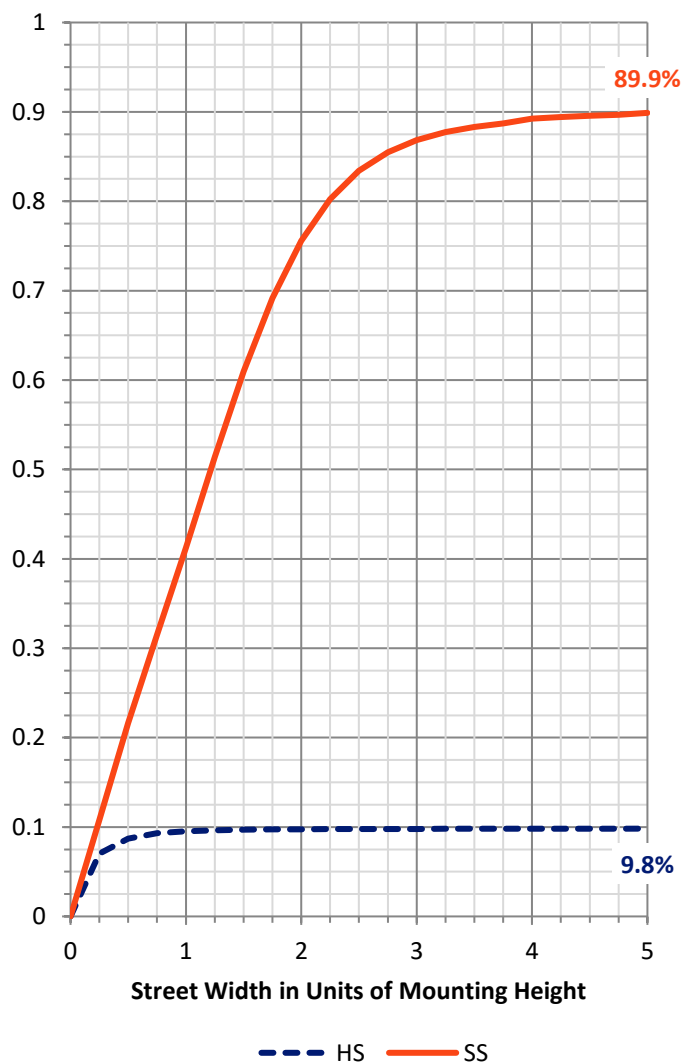
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.1	0.0	1034.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	9402.0	0.0	9402.0
	% Fixture	90.1	0.0	90.1
Total	Lumens	10436.0	0.0	10436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	0.9
10°-20°	299.5	2.9
20°-30°	479.0	4.6
30°-40°	689.4	6.6
40°-50°	1209.5	11.6
50°-60°	2548.4	24.4
60°-70°	3524.1	33.8
70°-80°	1475.4	14.1
80°-90°	111.6	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°	10436.0	100.0
0°-180°	10436.0	100.0

Coefficient of Utilization



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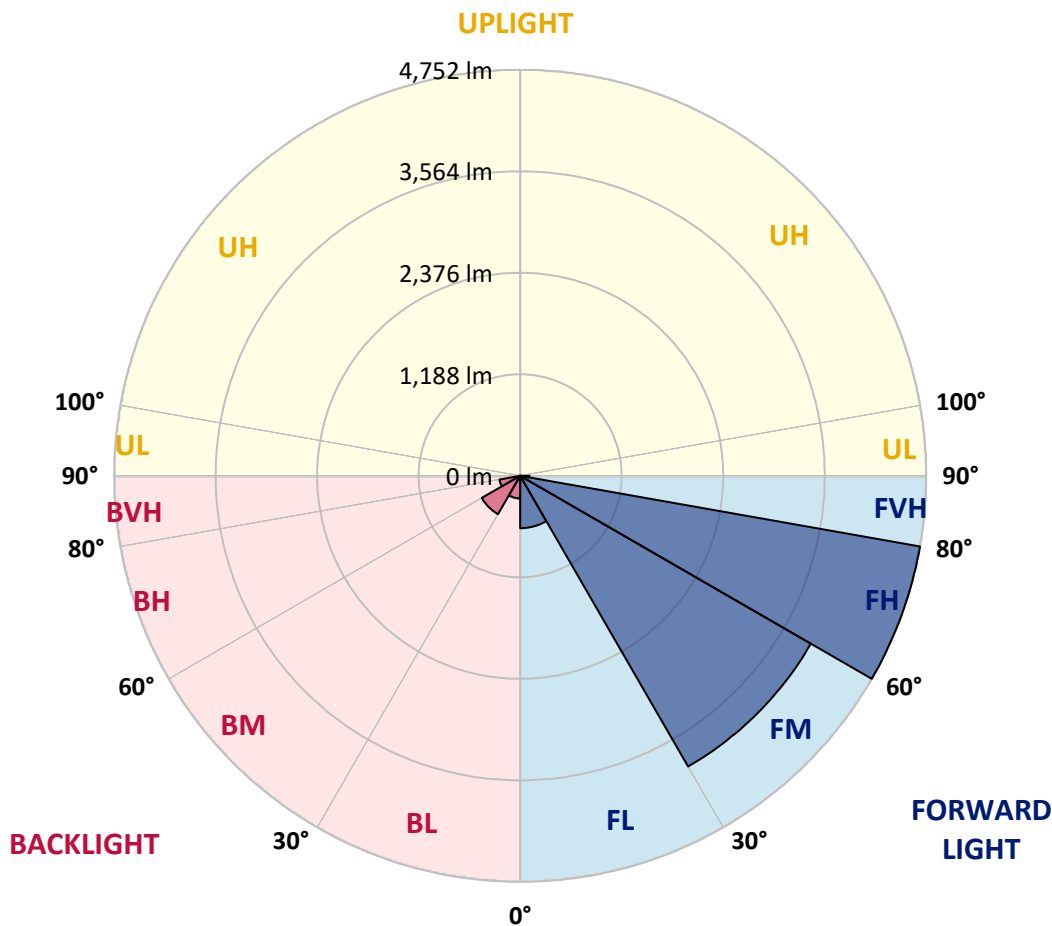
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.5	5.9			
FM (30°-60°)	3929.3	37.7			
FH (60°-80°)	4752.3	45.5			G2/5000
FVH (80°-90°)	107.8	1.0			G2/225
BL (0°-30°)	265.0	2.5	B1/500		
BM (30°-60°)	518.1	5.0	B1/1000		
BH (60°-80°)	247.2	2.4	B1/500		G1/500
BVH (80°-90°)	3.8	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°	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0
2.5°	1098.8	1079.5	1075.6	1071.8	1060.2	1044.8	1048.6	1037.1	1017.8	1006.2	994.7
5°	1233.7	1214.4	1206.7	1183.6	1160.5	1125.8	1125.8	1094.9	1060.2	1029.4	998.5
7.5°	1372.5	1357.1	1341.7	1307.0	1272.3	1226.0	1222.1	1175.9	1121.9	1075.6	1025.5
10°	1488.2	1476.6	1457.3	1414.9	1368.6	1318.5	1307.0	1264.5	1195.2	1133.5	1067.9
12.5°	1580.7	1569.1	1542.1	1499.7	1441.9	1391.8	1387.9	1333.9	1264.5	1199.0	1118.0
15°	1650.1	1630.8	1600.0	1553.7	1495.9	1449.6	1441.9	1395.6	1330.1	1256.8	1160.5
17.5°	1661.6	1650.1	1623.1	1573.0	1522.9	1484.3	1480.4	1445.7	1387.9	1310.8	1210.6
20°	1630.8	1626.9	1603.8	1565.3	1526.7	1507.4	1503.6	1480.4	1434.2	1364.8	1264.5
22.5°	1584.5	1580.7	1565.3	1546.0	1530.6	1526.7	1526.7	1519.0	1492.0	1426.5	1333.9
25°	1553.7	1549.8	1542.1	1530.6	1530.6	1553.7	1557.6	1565.3	1542.1	1492.0	1391.8
27.5°	1557.6	1549.8	1542.1	1530.6	1546.0	1588.4	1592.3	1611.5	1592.3	1546.0	1457.3
30°	1611.5	1600.0	1576.8	1549.8	1569.1	1626.9	1630.8	1653.9	1638.5	1615.4	1530.6
32.5°	1696.3	1688.6	1642.4	1596.1	1607.7	1665.5	1673.2	1715.6	1734.9	1700.2	1596.1
35°	1819.7	1792.7	1734.9	1688.6	1680.9	1723.3	1734.9	1804.3	1854.4	1769.6	1634.7
37.5°	1920.0	1896.8	1804.3	1731.0	1773.5	1869.8	1873.7	1958.5	1916.1	1777.3	1696.3
40°	2259.2	2255.4	2093.4	1862.1	1815.9	1923.8	1939.2	1954.7	1935.4	1866.0	1831.3
42.5°	2806.7	2760.4	2579.2	2224.5	1908.4	1920.0	1927.7	2008.6	2108.9	2078.0	2089.6
45°	3400.4	3361.8	3157.5	2710.3	2224.5	2128.1	2135.9	2266.9	2459.7	2498.3	2559.9
47.5°	3947.9	3886.2	3770.5	3319.4	2764.3	2482.8	2498.3	2656.3	2976.3	3061.1	3157.5
50°	4410.5	4368.1	4260.1	3963.3	3427.4	3041.9	3057.3	3188.4	3604.7	3739.7	3863.0
52.5°	5081.3	5023.5	4815.3	4676.5	4271.7	3770.5	3735.8	3874.6	4352.7	4441.3	4607.1
55°	5698.2	5578.7	5455.3	5397.5	5227.8	4641.8	4630.3	4657.2	5054.3	5100.6	5397.5
57.5°	5960.3	5937.2	6041.3	6234.1	6272.6	5667.3	5617.2	5513.1	5825.4	5821.5	6168.5
60°	6126.1	6126.1	6403.7	6881.8	7190.2	6762.3	6692.9	6369.0	6480.8	6484.7	6804.7
62.5°	6022.0	6049.0	6480.8	7201.8	7822.5	7691.4	7645.1	7101.5	7093.8	7005.1	7116.9
65°	5378.2	5424.5	6118.4	7024.4	8053.8	8362.2	8342.9	7726.1	7502.5	7178.6	6928.0
67°	4387.4	4472.2	5312.6	6384.4	7791.6	8593.5	8597.4	7996.0	7506.3	6889.5	6261.1
67.5°	4148.3	4210.0	4938.7	6153.1	7649.0	8597.4	8597.4	8030.7	7483.2	6800.8	6029.7
70°	2644.8	2660.2	3454.4	4761.3	6534.8	8181.0	8211.9	7768.5	6816.2	5505.4	4233.2
72.5°	1307.0	1272.3	1823.6	3065.0	4904.0	7001.3	7082.2	6635.0	5393.6	3597.0	2236.1
75°	512.8	547.5	794.2	1630.8	3072.7	5277.9	5339.6	4826.9	3469.8	1854.4	882.9
77.5°	227.5	227.5	339.3	732.5	1615.4	3238.5	3269.3	2945.5	1831.3	763.4	269.9
80°	123.4	131.1	177.3	320.0	813.5	1488.2	1623.1	1461.2	828.9	335.4	92.5
82.5°	61.7	65.5	107.9	181.2	408.7	562.9	593.7	620.7	381.7	208.2	38.6
85°	23.1	27.0	57.8	104.1	185.1	188.9	188.9	242.9	208.2	158.1	19.3
87.5°	3.9	7.7	27.0	42.4	73.3	65.5	57.8	77.1	115.7	100.2	11.6
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°	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0	987.0
2.5°	987.0	979.3	963.8	952.3	944.6	936.8	929.1	929.1	925.3	925.3	929.1
5°	987.0	971.5	940.7	921.4	906.0	894.4	886.7	886.7	882.9	886.7	890.6
7.5°	1006.2	983.1	940.7	906.0	886.7	867.4	859.7	855.9	855.9	859.7	855.9
10°	1037.1	1006.2	952.3	906.0	879.0	852.0	809.6	771.1	736.4	720.9	717.1
12.5°	1075.6	1037.1	971.5	917.6	875.2	782.6	667.0	593.7	547.5	524.3	516.6
15°	1118.0	1071.8	994.7	933.0	817.3	643.8	493.5	412.5	385.5	389.4	393.2
17.5°	1164.3	1114.2	1029.4	925.3	701.7	478.1	362.4	343.1	354.7	366.3	366.3
20°	1210.6	1156.6	1064.1	867.4	551.3	354.7	323.8	327.7	339.3	350.8	350.8
22.5°	1272.3	1214.4	1098.8	767.2	408.7	308.4	308.4	316.1	323.8	335.4	335.4
25°	1337.8	1280.0	1121.9	643.8	304.6	289.1	293.0	300.7	308.4	320.0	320.0
27.5°	1407.2	1349.4	1118.0	497.3	266.0	266.0	269.9	281.4	289.1	300.7	300.7
30°	1484.3	1434.2	1075.6	362.4	246.7	242.9	242.9	254.5	266.0	273.7	277.6
32.5°	1549.8	1507.4	1002.4	273.7	231.3	223.6	219.8	223.6	235.2	242.9	246.7
35°	1603.8	1588.4	894.4	235.2	215.9	204.3	196.6	192.8	196.6	196.6	200.5
37.5°	1704.1	1707.9	767.2	219.8	204.3	188.9	173.5	161.9	154.2	150.4	146.5
40°	1893.0	1889.1	632.3	208.2	192.8	173.5	150.4	134.9	115.7	107.9	107.9
42.5°	2159.0	2101.2	481.9	196.6	181.2	158.1	127.2	104.1	84.8	81.0	81.0
45°	2637.0	2398.0	362.4	188.9	169.6	138.8	104.1	77.1	65.5	61.7	61.7
47.5°	3165.2	2741.1	289.1	177.3	158.1	123.4	81.0	61.7	50.1	50.1	50.1
50°	3747.4	3068.8	242.9	165.8	138.8	104.1	65.5	50.1	46.3	42.4	46.3
52.5°	4383.5	3327.2	212.0	150.4	119.5	84.8	54.0	46.3	38.6	38.6	38.6
55°	4954.1	3500.6	177.3	131.1	100.2	69.4	50.1	38.6	34.7	30.8	27.0
57.5°	5470.7	3593.2	142.6	111.8	77.1	57.8	42.4	30.8	27.0	19.3	19.3
60°	5736.7	3508.4	111.8	88.7	61.7	46.3	34.7	27.0	19.3	11.6	11.6
62.5°	5779.1	3288.6	88.7	69.4	54.0	38.6	27.0	19.3	11.6	7.7	7.7
65°	5409.0	2903.1	73.3	57.8	42.4	30.8	23.1	15.4	7.7	3.9	3.9
67°	4745.9	2498.3	65.5	50.1	38.6	27.0	19.3	11.6	7.7	3.9	0.0
67.5°	4614.8	2425.0	61.7	50.1	38.6	27.0	19.3	11.6	7.7	3.9	0.0
70°	3030.3	1677.1	57.8	46.3	34.7	23.1	15.4	11.6	3.9	0.0	0.0
72.5°	1653.9	844.3	54.0	42.4	30.8	23.1	15.4	7.7	3.9	0.0	0.0
75°	605.3	320.0	46.3	38.6	27.0	23.1	15.4	7.7	3.9	0.0	0.0
77.5°	204.3	111.8	42.4	38.6	30.8	23.1	15.4	7.7	3.9	0.0	0.0
80°	69.4	50.1	34.7	30.8	23.1	19.3	15.4	7.7	3.9	0.0	0.0
82.5°	27.0	15.4	11.6	11.6	11.6	15.4	15.4	11.6	3.9	0.0	0.0
85°	11.6	7.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0
87.5°	11.6	7.7	3.9	3.9	3.9	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)