

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: P572646

Luminaire Tested: **ARCH-S-PA2-100-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7989.9 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

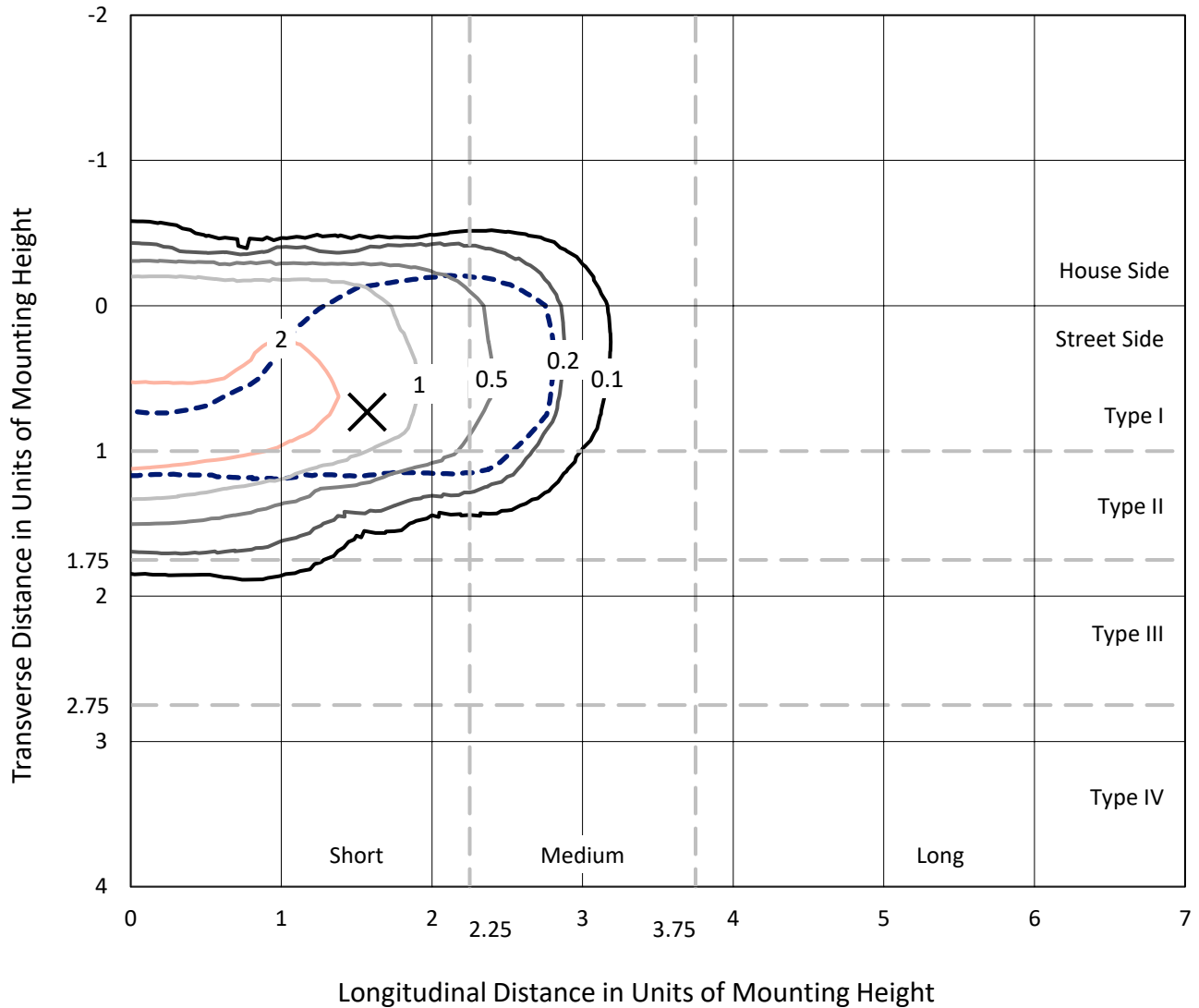
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

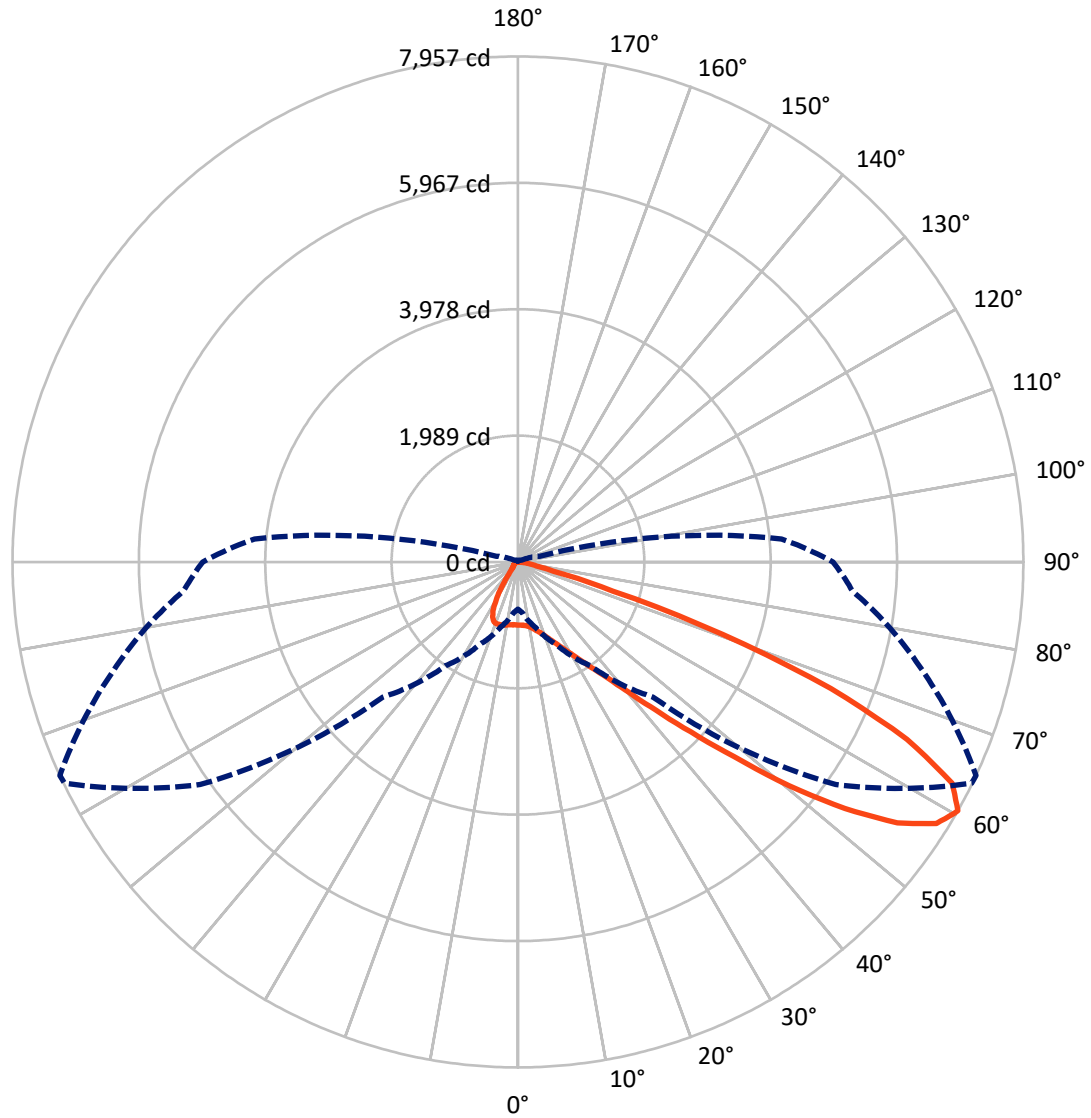
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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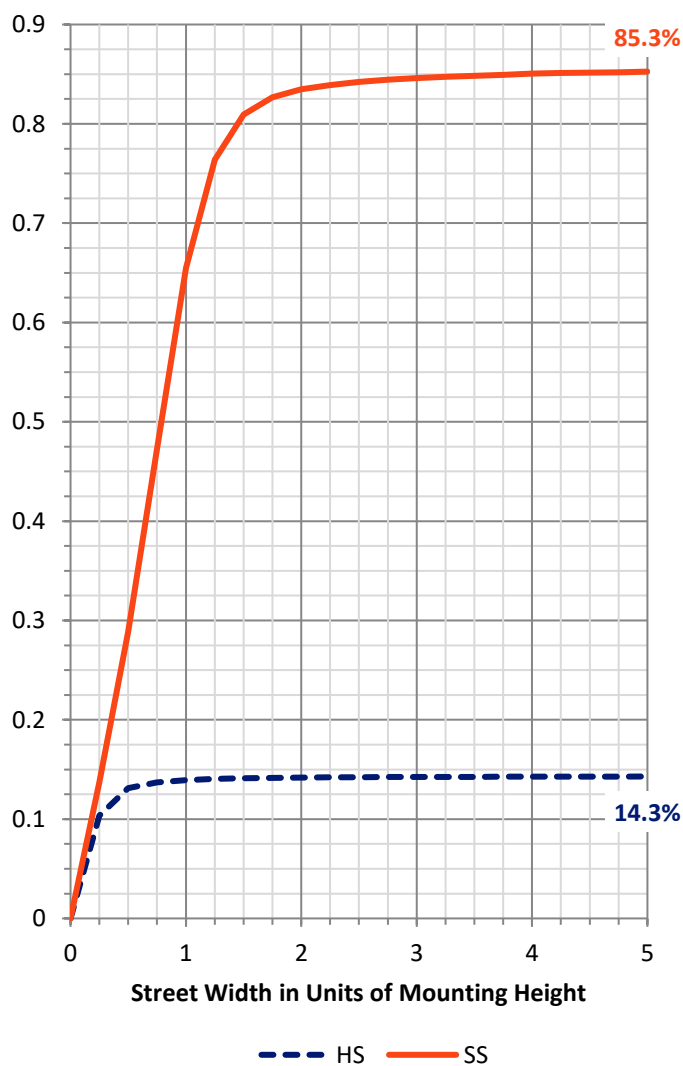
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1156.7	0.0	1156.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6833.2	0.0	6833.2
	% Fixture	85.5	0.0	85.5
Total	Lumens	7989.9	0.0	7989.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.2
10°-20°	266.9	3.3
20°-30°	453.4	5.7
30°-40°	935.5	11.7
40°-50°	1881.4	23.5
50°-60°	2302.2	28.8
60°-70°	1628.7	20.4
70°-80°	392.5	4.9
80°-90°	35.4	0.4
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°	7989.9	100.0
0°-180°	7989.9	100.0

Coefficient of Utilization



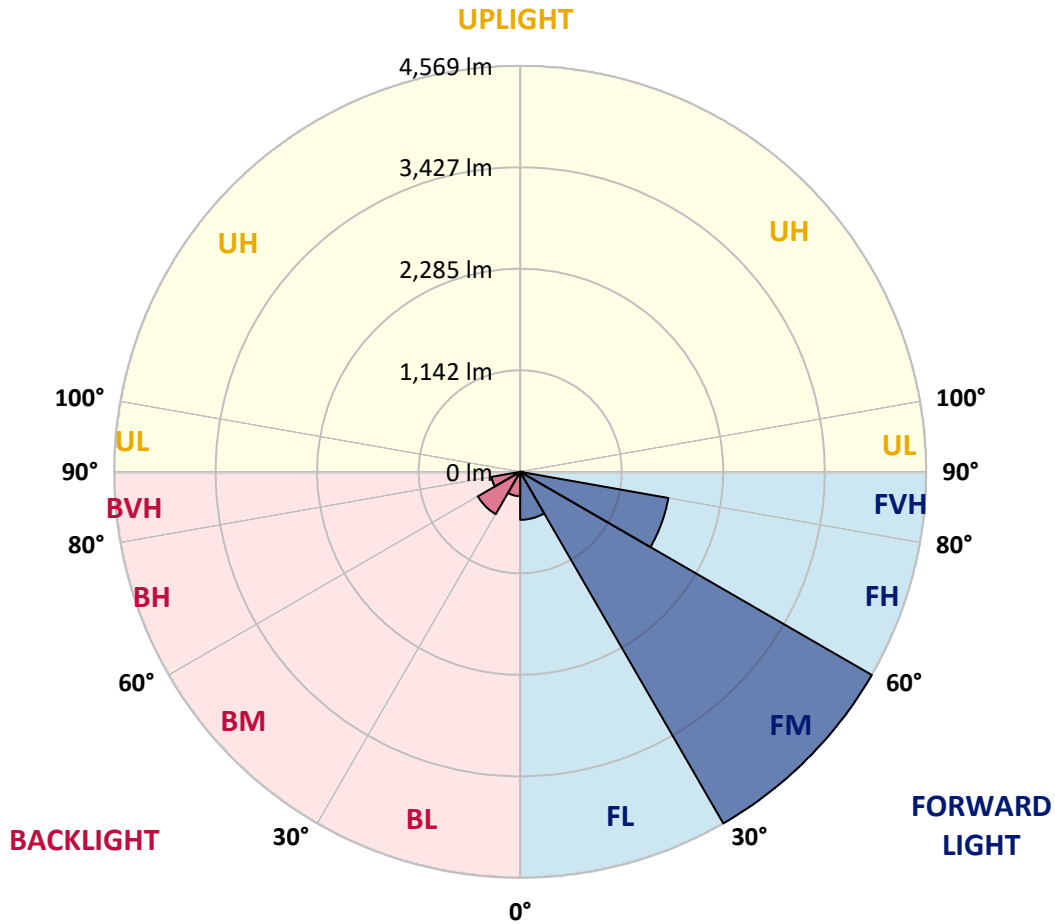
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.1	6.8			
FM (30°-60°)	4569.0	57.2			
FH (60°-80°)	1693.3	21.2			G1/1800
FVH (80°-90°)	30.8	0.4			G1/100
BL (0°-30°)	274.2	3.4	B1/500		
BM (30°-60°)	550.0	6.9	B1/1000		
BH (60°-80°)	327.9	4.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	998.5	995.4	995.4	995.4	998.5	998.5	1001.7	995.4	995.4	995.4	995.4
5°	992.2	989.1	989.1	992.2	995.4	995.4	1001.7	1001.7	1001.7	1004.8	1004.8
7.5°	1004.8	998.5	998.5	1001.7	1004.8	1004.8	1011.1	1014.3	1014.3	1020.6	1023.7
10°	1020.6	1017.4	1017.4	1023.7	1030.0	1030.0	1039.5	1039.5	1039.5	1045.8	1048.9
12.5°	1042.6	1039.5	1039.5	1048.9	1058.4	1064.7	1071.0	1074.1	1077.3	1077.3	1077.3
15°	1074.1	1071.0	1071.0	1080.4	1093.0	1108.7	1118.2	1118.2	1124.5	1121.3	1108.7
17.5°	1118.2	1115.0	1118.2	1124.5	1140.2	1156.0	1174.9	1178.0	1174.9	1168.6	1149.7
20°	1190.6	1181.2	1187.5	1203.2	1203.2	1212.7	1237.9	1247.3	1250.5	1231.6	1196.9
22.5°	1266.2	1266.2	1272.5	1291.4	1278.8	1291.4	1313.5	1329.2	1335.5	1319.8	1263.1
25°	1408.0	1414.3	1404.8	1398.5	1367.0	1373.3	1401.7	1433.2	1433.2	1420.6	1338.7
27.5°	1719.8	1713.5	1647.4	1556.0	1474.1	1480.4	1508.8	1549.7	1552.9	1524.5	1414.3
30°	2167.1	2173.4	2044.3	1836.4	1656.8	1609.6	1641.1	1688.3	1694.6	1647.4	1511.9
32.5°	2866.4	2812.8	2573.4	2296.2	1959.2	1789.1	1801.7	1852.1	1871.0	1830.1	1666.3
35°	3770.4	3644.4	3285.3	2942.0	2453.7	2110.4	2012.8	2066.3	2075.8	2053.7	1858.4
37.5°	4309.0	4208.2	3975.1	3663.3	3090.0	2538.8	2289.9	2343.5	2334.0	2289.9	2050.6
40°	4642.9	4586.2	4460.2	4315.3	3949.9	3212.9	2746.7	2702.6	2705.7	2642.7	2362.4
42.5°	4831.9	4781.5	4734.2	4772.0	4664.9	4435.0	3408.1	3206.6	3187.7	3068.0	2724.6
45°	4841.3	4765.7	4822.4	5042.9	5213.0	5518.5	4271.2	3805.0	3814.5	3616.0	3175.1
47.5°	4479.1	4419.2	4583.0	5014.6	5578.4	6227.3	5276.0	4624.0	4579.9	4189.3	3631.8
50°	3764.1	3760.9	3978.3	4589.3	5578.4	6592.6	6353.3	5584.7	5537.4	4787.8	4047.6
52.5°	2979.8	3039.6	3187.7	3767.2	5065.0	6558.0	7147.0	6576.9	6444.6	5320.1	4394.0
55°	2318.3	2296.2	2475.8	2875.8	4016.1	5959.5	7405.3	7358.1	7247.8	5792.6	4699.6
57.5°	1423.7	1505.6	1748.2	2104.1	2923.1	4687.0	7033.6	7833.7	7767.5	6233.6	5017.7
60°	740.2	803.2	1064.7	1436.3	1997.0	3005.0	6104.4	7943.9	7956.5	6589.5	5288.6
62.5°	466.2	463.0	582.7	1008.0	1285.1	1688.3	4740.5	7553.4	7673.0	6863.5	5546.9
65°	349.6	352.8	400.0	667.8	872.5	882.0	2812.8	6532.8	6731.2	6936.0	5635.1
67.5°	324.4	327.6	349.6	437.8	655.2	589.0	1237.9	5036.6	5313.8	6268.2	5294.9
70°	289.8	292.9	327.6	362.2	494.5	431.5	557.5	3033.3	3417.6	4548.4	4236.6
72.5°	226.8	233.1	274.0	343.3	368.5	327.6	387.4	1341.8	1565.5	2501.0	2425.4
75°	166.9	170.1	207.9	264.6	324.4	233.1	299.2	532.3	582.7	938.7	800.1
77.5°	116.5	116.5	144.9	198.4	270.9	163.8	214.2	286.6	292.9	349.6	229.9
80°	72.4	75.6	91.3	135.4	166.9	157.5	132.3	192.1	192.1	182.7	94.5
82.5°	40.9	44.1	63.0	91.3	113.4	107.1	85.0	110.2	113.4	116.5	53.5
85°	18.9	22.0	37.8	56.7	66.1	50.4	50.4	56.7	56.7	75.6	31.5
87.5°	3.1	3.1	18.9	25.2	22.0	25.2	25.2	31.5	31.5	37.8	15.7
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°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	992.2	992.2	992.2	989.1	989.1	985.9	979.6	979.6	979.6	979.6	982.8
5°	1004.8	1001.7	998.5	989.1	982.8	970.2	957.6	954.4	945.0	945.0	948.1
7.5°	1020.6	1020.6	1011.1	995.4	979.6	957.6	935.5	919.8	904.0	900.9	897.7
10°	1048.9	1042.6	1033.2	1004.8	979.6	945.0	910.3	869.4	837.9	822.1	815.8
12.5°	1071.0	1067.8	1048.9	1017.4	976.5	922.9	844.2	749.7	674.1	633.1	633.1
15°	1102.4	1096.1	1067.8	1023.7	967.0	841.0	680.4	535.5	453.6	409.5	403.2
17.5°	1133.9	1121.3	1086.7	1026.9	926.1	693.0	475.6	343.3	286.6	264.6	258.3
20°	1171.7	1149.7	1099.3	1030.0	825.3	504.0	308.7	229.9	207.9	198.4	201.6
22.5°	1222.1	1184.3	1111.9	1011.1	674.1	327.6	217.3	185.8	173.2	163.8	163.8
25°	1285.1	1231.6	1133.9	957.6	488.2	220.5	173.2	154.3	141.7	135.4	132.3
27.5°	1341.8	1275.7	1156.0	863.1	311.8	173.2	144.9	129.1	116.5	113.4	110.2
30°	1417.4	1326.1	1178.0	711.9	204.7	141.7	122.8	107.1	97.6	94.5	94.5
32.5°	1546.6	1423.7	1219.0	541.8	154.3	122.8	103.9	91.3	85.0	81.9	81.9
35°	1697.8	1543.4	1253.6	378.0	132.3	103.9	88.2	78.7	75.6	72.4	72.4
37.5°	1855.3	1685.2	1259.9	239.4	116.5	91.3	78.7	72.4	66.1	66.1	66.1
40°	2138.8	1934.0	1231.6	160.6	100.8	81.9	69.3	66.1	59.8	59.8	59.8
42.5°	2469.5	2236.4	1159.1	129.1	91.3	72.4	66.1	59.8	53.5	53.5	50.4
45°	2897.9	2579.7	1036.3	113.4	81.9	66.1	59.8	53.5	50.4	47.2	47.2
47.5°	3301.0	2970.3	919.8	100.8	75.6	63.0	53.5	47.2	44.1	44.1	44.1
50°	3685.3	3269.6	784.3	94.5	69.3	59.8	50.4	44.1	40.9	37.8	37.8
52.5°	3962.5	3505.8	658.3	85.0	63.0	53.5	47.2	40.9	34.6	31.5	31.5
55°	4271.2	3745.2	544.9	75.6	59.8	50.4	40.9	34.6	28.3	25.2	25.2
57.5°	4617.7	3978.3	441.0	69.3	56.7	44.1	34.6	28.3	22.0	18.9	18.9
60°	4961.0	4164.1	352.8	63.0	50.4	40.9	31.5	22.0	15.7	12.6	12.6
62.5°	5304.4	4290.1	270.9	56.7	47.2	34.6	25.2	15.7	9.4	6.3	6.3
65°	5446.1	4255.5	201.6	50.4	40.9	28.3	22.0	15.7	9.4	6.3	6.3
67.5°	5052.4	3827.1	141.7	50.4	37.8	28.3	18.9	12.6	6.3	3.1	3.1
70°	3943.6	2954.6	103.9	50.4	37.8	28.3	18.9	12.6	6.3	3.1	3.1
72.5°	2236.4	1644.2	78.7	44.1	34.6	25.2	18.9	12.6	6.3	3.1	3.1
75°	796.9	529.2	59.8	40.9	31.5	22.0	18.9	12.6	6.3	3.1	3.1
77.5°	192.1	135.4	47.2	34.6	28.3	22.0	15.7	12.6	9.4	3.1	3.1
80°	78.7	56.7	37.8	28.3	22.0	18.9	15.7	12.6	6.3	3.1	3.1
82.5°	34.6	28.3	15.7	15.7	12.6	12.6	12.6	12.6	6.3	3.1	3.1
85°	15.7	12.6	6.3	6.3	3.1	3.1	3.1	6.3	6.3	3.1	3.1
87.5°	9.4	6.3	6.3	6.3	3.1	3.1	3.1	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)