

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: P397980

Luminaire Tested: **ARCH-S-PA1-70-730-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-70-730-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9189 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 74  
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

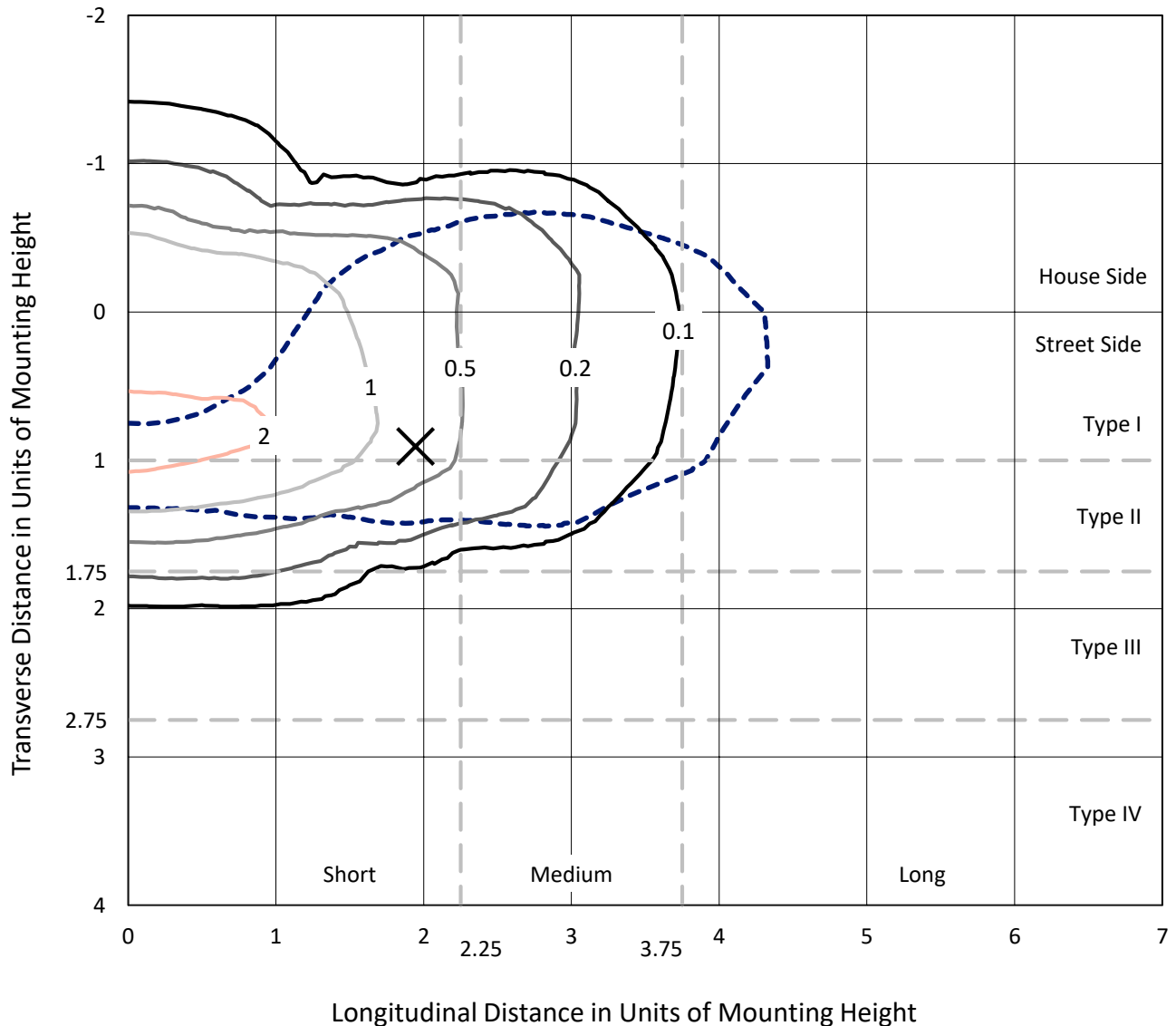


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### Iso-Footcandle Lines of Horizontal Illumination

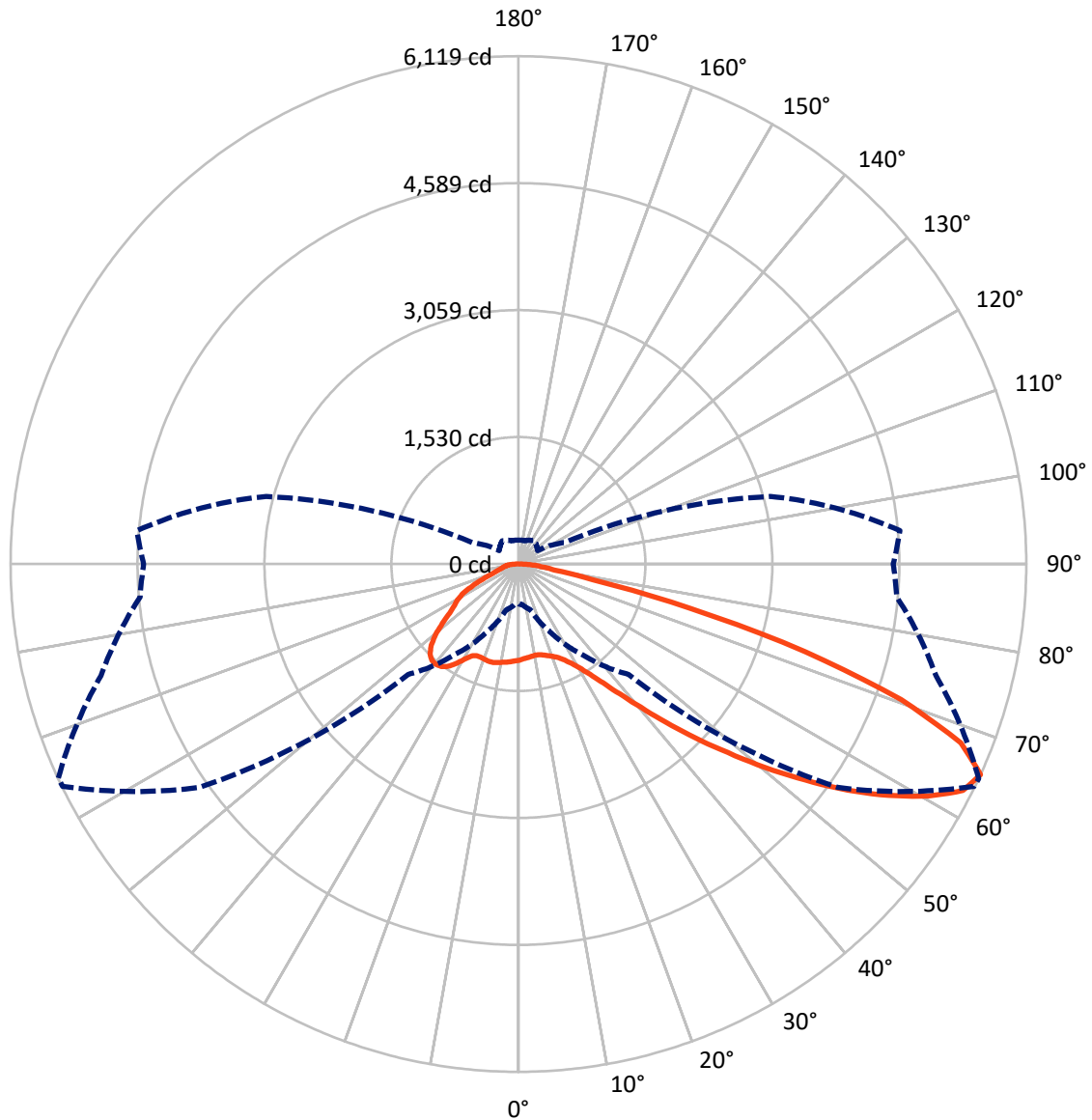
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2656.7	0.0	2656.7
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	6532.3	0.0	6532.3
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	9189.0	0.0	9189.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	1.2
10°-20°	330.3	3.6
20°-30°	586.7	6.4
30°-40°	992.5	10.8
40°-50°	1727.7	18.8
50°-60°	2232.8	24.3
60°-70°	1953.8	21.3
70°-80°	1062.7	11.6
80°-90°	192.0	2.1
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°	9189.0	100.0
0°-180°	9189.0	100.0



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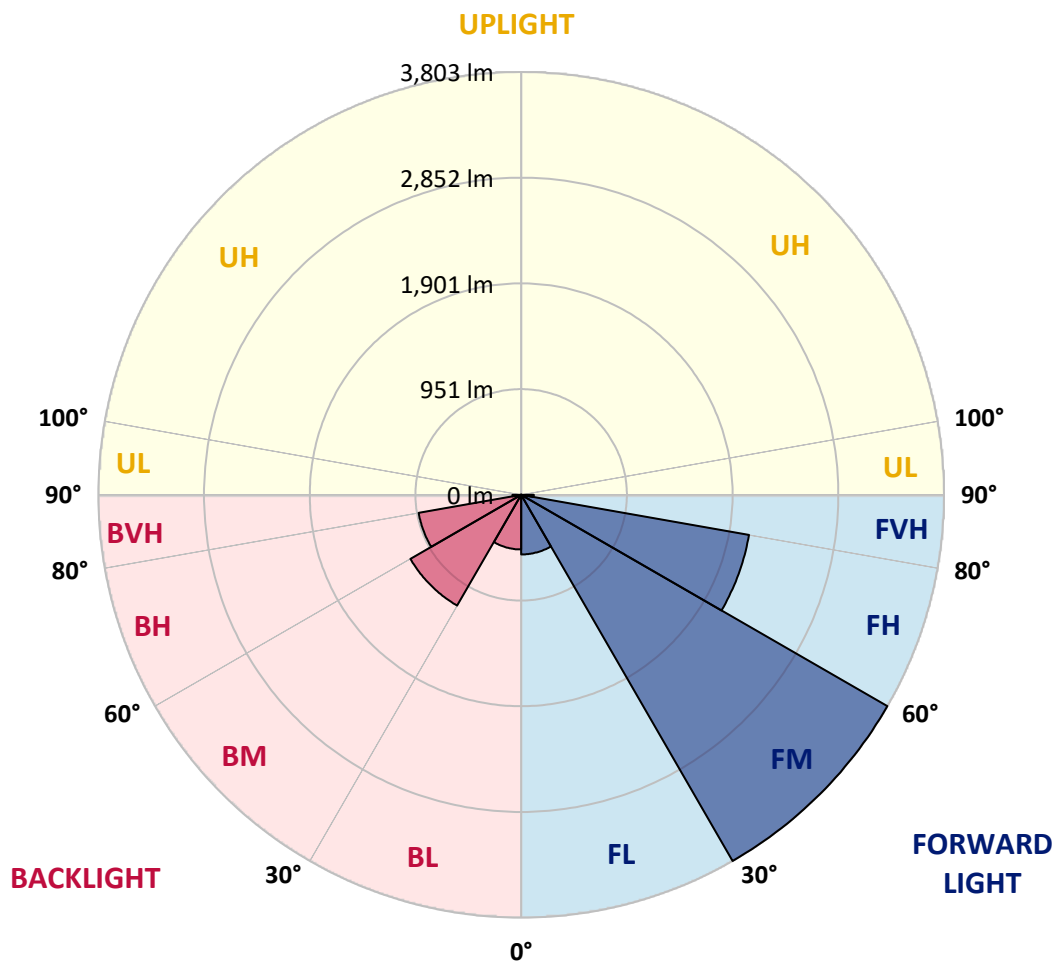
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.2	5.8			
FM	(30°-60°)	3802.7	41.4			
FH	(60°-80°)	2080.5	22.6			G2/5000
FVH	(80°-90°)	113.0	1.2			G2/225
BL	(0°-30°)	491.4	5.3	B1/500		
BM	(30°-60°)	1150.3	12.5	B2/2500		
BH	(60°-80°)	936.0	10.2	B2/1000		G2/1000
BVH	(80°-90°)	79.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1
2.5°	1140.6	1139.3	1136.9	1139.3	1140.6	1143.0	1141.8	1144.2	1143.0	1146.6	1152.7
5°	1111.5	1109.1	1107.9	1113.9	1117.6	1123.6	1126.0	1134.5	1133.3	1139.3	1149.0
7.5°	1078.9	1078.9	1077.7	1084.9	1089.8	1100.6	1109.1	1123.6	1124.8	1135.7	1146.6
10°	1053.5	1054.7	1053.5	1059.5	1066.8	1080.1	1094.6	1115.2	1116.4	1132.1	1143.0
12.5°	1043.8	1043.8	1043.8	1052.3	1061.9	1080.1	1097.0	1118.8	1121.2	1138.1	1147.8
15°	1057.1	1058.3	1055.9	1064.4	1075.2	1097.0	1112.7	1135.7	1138.1	1153.9	1159.9
17.5°	1104.3	1109.1	1103.1	1107.9	1105.5	1122.4	1136.9	1159.9	1161.1	1174.4	1176.8
20°	1197.4	1202.2	1192.6	1186.5	1164.7	1163.5	1169.6	1187.7	1187.7	1196.2	1190.1
22.5°	1341.3	1346.2	1329.2	1306.3	1254.3	1228.9	1215.5	1224.0	1222.8	1226.4	1210.7
25°	1532.4	1531.2	1510.7	1468.3	1384.9	1323.2	1290.5	1277.2	1277.2	1270.0	1250.6
27.5°	1769.5	1751.4	1715.1	1664.3	1548.2	1462.3	1392.1	1358.3	1352.2	1330.4	1294.2
30°	2022.3	2009.0	1957.0	1883.2	1748.9	1638.9	1522.8	1455.0	1451.4	1404.2	1349.8
32.5°	2319.8	2298.0	2240.0	2151.7	1990.8	1836.0	1690.9	1588.1	1582.0	1507.0	1432.0
35°	2702.0	2683.9	2571.4	2483.1	2276.3	2073.1	1901.3	1764.7	1759.8	1667.9	1572.3
37.5°	3160.4	3113.2	3004.4	2838.7	2621.0	2380.3	2162.6	1990.8	1984.8	1883.2	1762.2
40°	3569.2	3526.9	3430.1	3277.7	3044.3	2777.0	2481.9	2273.9	2267.8	2144.4	1992.0
42.5°	3871.6	3842.6	3779.7	3691.4	3524.5	3362.4	2889.5	2616.1	2605.3	2445.6	2255.7
45°	4047.0	4024.0	3987.7	4009.5	4007.1	3976.8	3375.7	3023.7	2988.7	2781.8	2549.6
47.5°	4004.6	3984.1	3998.6	4167.9	4401.4	4576.7	3941.8	3441.0	3393.9	3124.1	2862.9
50°	3698.6	3707.1	3783.3	4107.5	4631.2	5020.6	4569.5	3916.4	3853.5	3468.8	3160.4
52.5°	3141.1	3161.6	3346.7	3800.2	4605.8	5308.5	5136.7	4407.4	4324.0	3805.1	3431.3
55°	2495.2	2547.2	2786.7	3263.2	4274.4	5329.1	5564.9	4900.9	4809.0	4120.8	3667.2
57.5°	1845.7	1923.1	2200.1	2637.9	3639.4	5003.7	5779.0	5372.6	5261.3	4434.0	3916.4
60°	1170.8	1218.0	1537.3	2053.7	2785.5	4207.8	5751.2	5774.1	5677.4	4746.1	4176.4
62.5°	747.5	770.5	931.3	1464.7	1947.3	3115.7	5447.6	6077.7	6012.4	5030.3	4423.1
65°	480.2	489.8	572.1	901.1	1325.6	1880.8	4691.6	6110.4	6118.9	5208.1	4575.5
67.5°	390.7	395.5	425.7	556.4	937.4	1039.0	3268.1	5645.9	5748.7	5162.1	4523.5
70°	355.6	361.6	393.1	443.9	725.7	717.2	1582.0	4724.3	4892.4	4897.3	4292.5
72.5°	300.0	308.4	350.8	419.7	561.2	566.0	670.1	3364.8	3612.8	4377.2	3945.4
75°	250.4	255.2	291.5	370.1	475.3	452.4	470.5	1784.0	2142.0	3510.0	3576.5
77.5°	203.2	208.0	234.6	295.1	422.1	352.0	370.1	739.0	913.2	2382.7	2923.4
80°	145.1	150.0	180.2	229.8	319.3	316.9	274.6	407.6	442.7	1288.1	1898.9
82.5°	104.0	107.6	136.7	164.5	221.3	318.1	206.8	277.0	290.3	570.9	765.6
85°	70.2	70.2	94.3	108.9	142.7	200.8	166.9	187.5	195.9	270.9	206.8
87.5°	30.2	30.2	50.8	55.6	75.0	93.1	124.6	94.3	96.8	146.3	84.7
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°	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1
2.5°	1156.3	1157.5	1159.9	1167.2	1172.0	1179.3	1182.9	1187.7	1187.7	1185.3	1186.5
5°	1153.9	1157.5	1166.0	1179.3	1187.7	1201.0	1210.7	1218.0	1220.4	1218.0	1219.2
7.5°	1152.7	1158.7	1173.2	1192.6	1204.7	1221.6	1234.9	1243.4	1249.4	1247.0	1248.2
10°	1149.0	1158.7	1176.8	1201.0	1219.2	1236.1	1248.2	1251.8	1255.5	1253.0	1251.8
12.5°	1153.9	1164.7	1184.1	1213.1	1233.7	1247.0	1250.6	1244.6	1236.1	1231.3	1230.1
15°	1163.5	1174.4	1193.8	1224.0	1242.2	1247.0	1238.5	1219.2	1199.8	1188.9	1187.7
17.5°	1176.8	1184.1	1199.8	1226.4	1240.9	1234.9	1218.0	1195.0	1180.5	1172.0	1173.2
20°	1185.3	1185.3	1197.4	1218.0	1230.1	1225.2	1204.7	1179.3	1156.3	1145.4	1141.8
22.5°	1197.4	1191.4	1192.6	1210.7	1227.6	1220.4	1176.8	1132.1	1099.4	1087.3	1086.1
25°	1230.1	1213.1	1202.2	1213.1	1253.0	1193.8	1106.7	1054.7	1024.4	1013.6	1014.8
27.5°	1270.0	1247.0	1224.0	1242.2	1273.6	1133.3	1017.2	957.9	939.8	931.3	934.9
30°	1309.9	1279.6	1249.4	1314.7	1259.1	1039.0	902.3	844.2	828.5	822.5	827.3
32.5°	1383.7	1334.1	1297.8	1411.5	1214.3	931.3	777.7	724.5	710.0	702.7	700.3
35°	1507.0	1444.1	1407.9	1496.1	1151.4	811.6	664.0	626.5	610.8	595.1	592.7
37.5°	1684.8	1608.6	1576.0	1544.5	1063.1	693.0	576.9	551.5	528.6	504.4	503.2
40°	1897.7	1798.5	1774.3	1566.3	941.0	581.8	516.5	492.3	463.2	440.3	441.5
42.5°	2143.2	2016.2	1964.2	1560.3	789.8	522.5	472.9	446.3	420.9	400.3	399.1
45°	2405.7	2261.8	2142.0	1517.9	639.8	481.4	446.3	414.9	389.5	366.5	364.1
47.5°	2696.0	2535.1	2306.5	1435.7	528.6	452.4	430.6	385.8	362.8	348.3	348.3
50°	2988.7	2796.4	2457.7	1311.1	463.2	430.6	407.6	370.1	352.0	339.9	339.9
52.5°	3239.0	3068.5	2582.3	1162.3	422.1	412.4	391.9	362.8	343.5	332.6	331.4
55°	3482.1	3321.3	2693.6	1014.8	388.2	388.2	388.2	356.8	335.0	325.4	324.1
57.5°	3724.0	3587.4	2809.7	918.0	358.0	367.7	381.0	349.5	327.8	319.3	318.1
60°	3997.4	3906.7	2943.9	850.3	331.4	345.9	371.3	341.1	315.7	308.4	307.2
62.5°	4287.7	4287.7	3066.1	754.7	307.2	327.8	356.8	330.2	304.8	298.7	297.5
65°	4515.1	4613.0	3144.7	612.0	283.0	309.6	339.9	315.7	290.3	289.1	286.7
67.5°	4541.7	4695.3	3095.1	462.0	261.3	290.3	322.9	300.0	275.8	275.8	272.1
70°	4350.6	4506.6	2940.3	345.9	245.5	270.9	301.2	280.6	257.6	260.0	254.0
72.5°	4031.3	4070.0	2555.7	273.3	227.4	250.4	274.6	258.8	238.3	238.3	229.8
75°	3610.4	3395.1	1856.6	228.6	205.6	226.2	247.9	234.6	216.5	210.5	205.6
77.5°	2873.8	2460.1	1078.9	197.1	187.5	203.2	217.7	208.0	192.3	179.0	179.0
80°	1751.4	1441.7	476.5	170.5	165.7	177.8	187.5	176.6	163.3	150.0	146.3
82.5°	666.4	556.4	231.0	146.3	145.1	152.4	159.7	148.8	139.1	133.0	114.9
85°	182.6	168.1	158.4	122.2	119.7	118.5	127.0	122.2	108.9	89.5	79.8
87.5°	68.9	78.6	85.9	75.0	79.8	73.8	84.7	77.4	68.9	44.8	39.9
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)