

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: P397899

Luminaire Tested: **ARCH-S-PA1-60-727-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397899  
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-PA1-60-727-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7570 lumens  
Efficiency: N/A  
Efficacy: 118.3 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): 64  
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

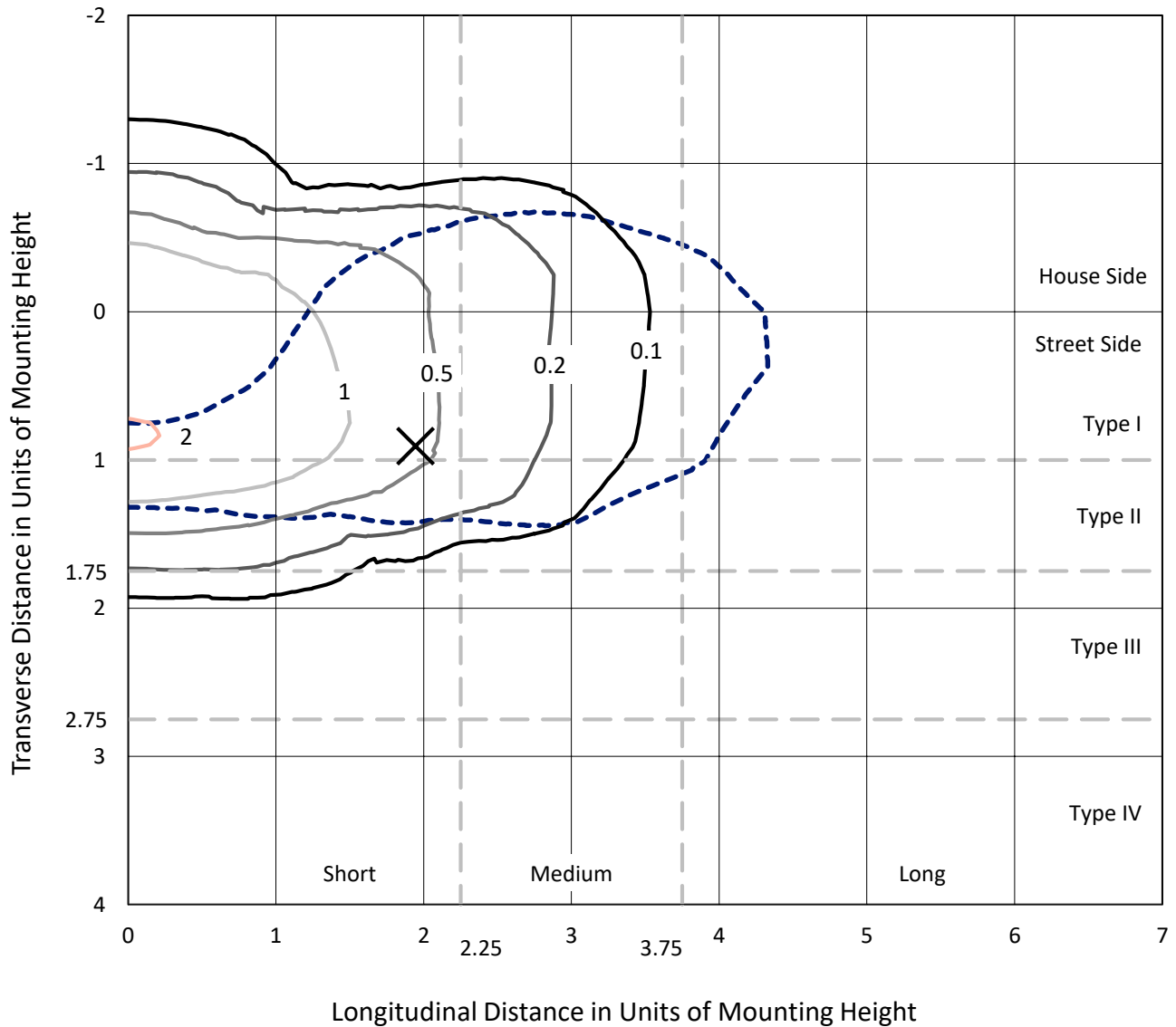


REPORT NUMBER: P397899

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

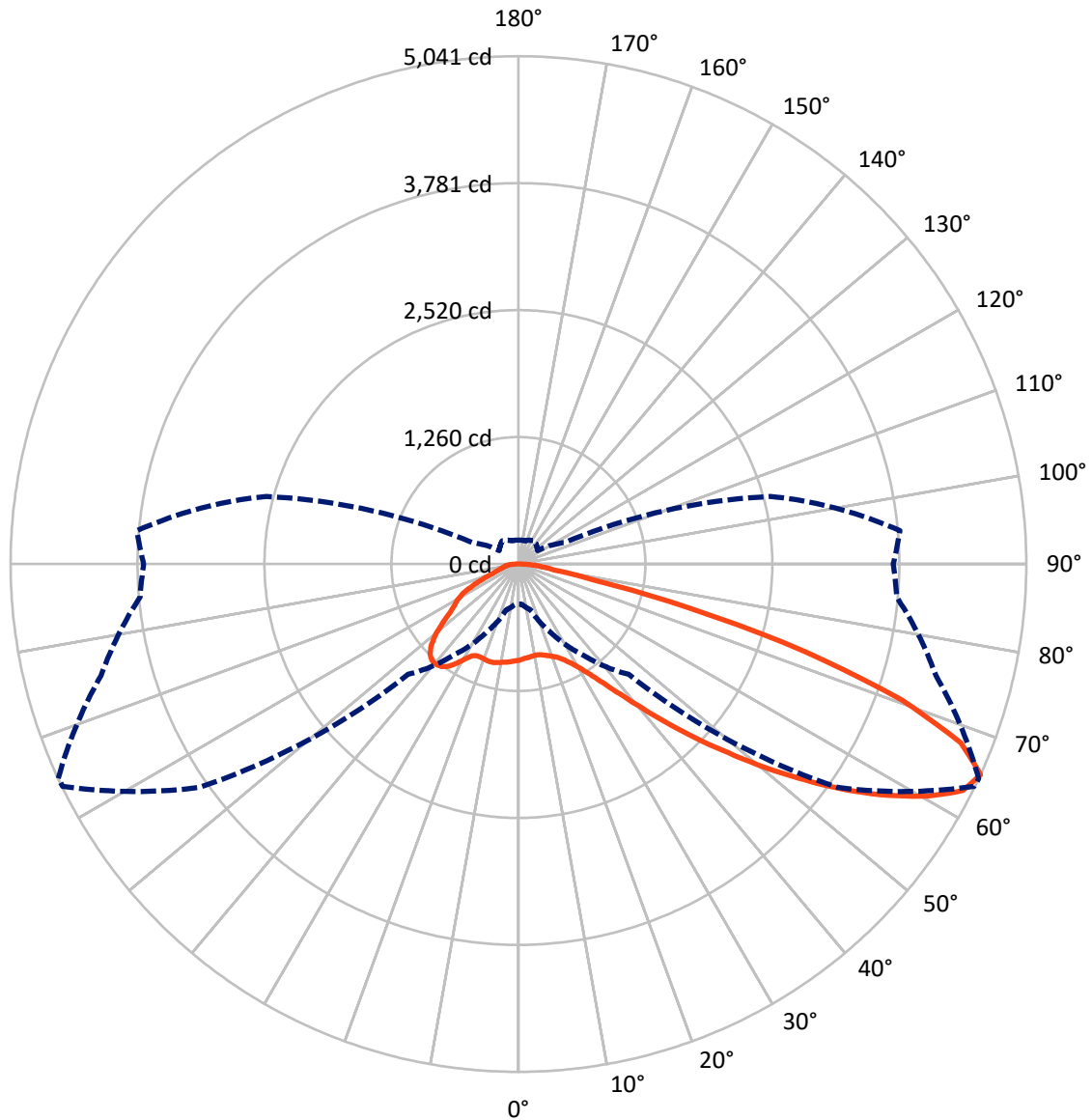


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P397899

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T2U

### 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	2188.6	0.0	2188.6
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	5381.4	0.0	5381.4
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	7570.0	0.0	7570.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	1.2
10°-20°	272.1	3.6
20°-30°	483.3	6.4
30°-40°	817.6	10.8
40°-50°	1423.3	18.8
50°-60°	1839.4	24.3
60°-70°	1609.5	21.3
70°-80°	875.5	11.6
80°-90°	158.2	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°	7570.0	100.0
0°-180°	7570.0	100.0



REPORT NUMBER: P397899

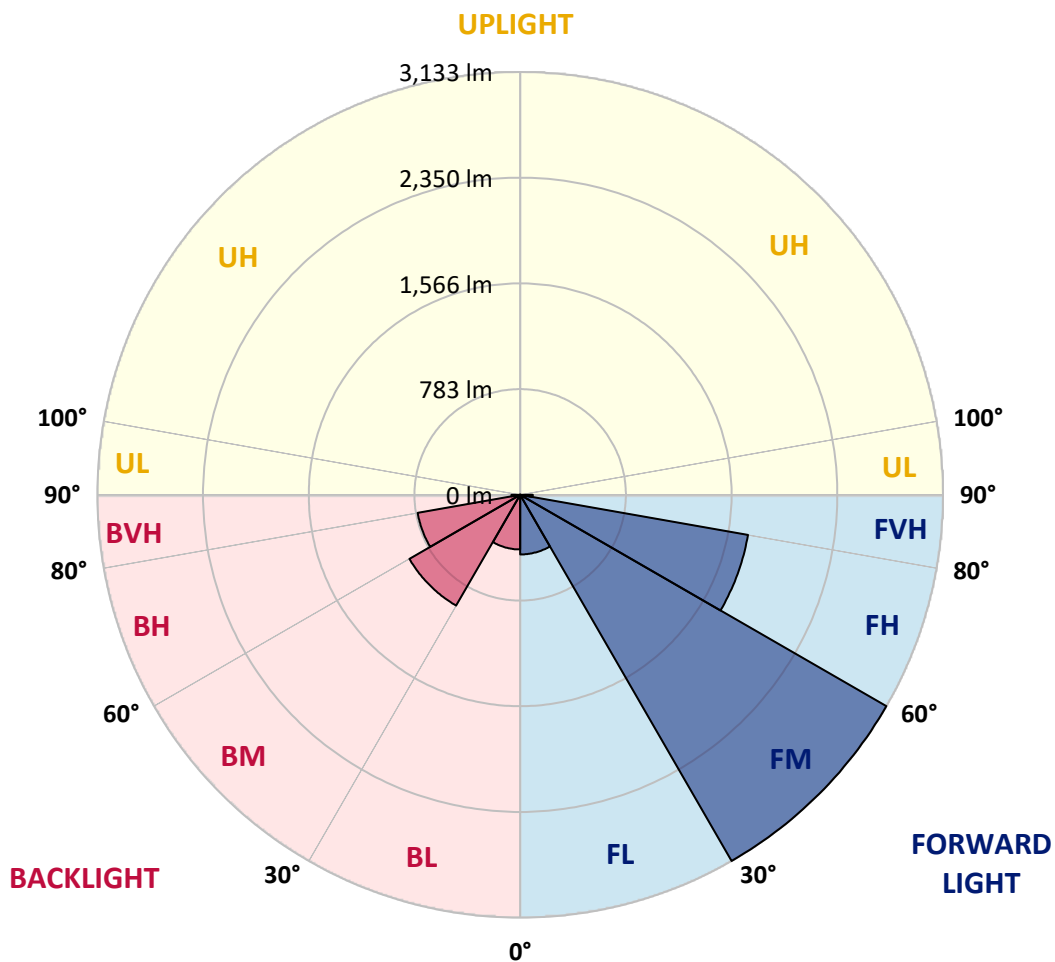
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.7	5.8			
FM (30°-60°)	3132.7	41.4			
FH (60°-80°)	1714.0	22.6			G1/1800
FVH (80°-90°)	93.1	1.2			G1/100
BL (0°-30°)	404.8	5.3	B1/500		
BM (30°-60°)	947.6	12.5	B1/1000		
BH (60°-80°)	771.1	10.2	B2/1000		G2/1000
BVH (80°-90°)	65.1	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°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	939.6	938.6	936.6	938.6	939.6	941.6	940.6	942.6	941.6	944.6	949.6
5°	915.7	913.7	912.7	917.7	920.7	925.7	927.6	934.6	933.6	938.6	946.6
7.5°	888.8	888.8	887.8	893.8	897.8	906.7	913.7	925.7	926.7	935.6	944.6
10°	867.9	868.9	867.9	872.8	878.8	889.8	901.7	918.7	919.7	932.6	941.6
12.5°	859.9	859.9	859.9	866.9	874.8	889.8	903.7	921.7	923.7	937.6	945.6
15°	870.9	871.8	869.9	876.8	885.8	903.7	916.7	935.6	937.6	950.6	955.5
17.5°	909.7	913.7	908.7	912.7	910.7	924.7	936.6	955.5	956.5	967.5	969.5
20°	986.4	990.4	982.4	977.5	959.5	958.5	963.5	978.5	978.5	985.4	980.5
22.5°	1105.0	1109.0	1095.0	1076.1	1033.3	1012.3	1001.4	1008.4	1007.4	1010.3	997.4
25°	1262.4	1261.4	1244.5	1209.6	1140.9	1090.1	1063.2	1052.2	1052.2	1046.2	1030.3
27.5°	1457.7	1442.8	1412.9	1371.0	1275.4	1204.6	1146.9	1119.0	1114.0	1096.0	1066.1
30°	1666.0	1655.0	1612.2	1551.4	1440.8	1350.1	1254.5	1198.7	1195.7	1156.8	1112.0
32.5°	1911.1	1893.2	1845.3	1772.6	1640.1	1512.5	1393.0	1308.3	1303.3	1241.5	1179.7
35°	2226.0	2211.0	2118.3	2045.6	1875.2	1707.8	1566.3	1453.7	1449.8	1374.0	1295.3
37.5°	2603.6	2564.7	2475.1	2338.5	2159.2	1960.9	1781.6	1640.1	1635.1	1551.4	1451.8
40°	2940.4	2905.5	2825.8	2700.2	2507.9	2287.7	2044.6	1873.2	1868.2	1766.6	1641.1
42.5°	3189.5	3165.6	3113.7	3041.0	2903.5	2770.0	2380.4	2155.2	2146.2	2014.7	1858.3
45°	3333.9	3315.0	3285.1	3303.1	3301.1	3276.2	2780.9	2491.0	2462.1	2291.7	2100.4
47.5°	3299.1	3282.1	3294.1	3433.6	3625.9	3770.4	3247.3	2834.8	2795.9	2573.7	2358.5
50°	3047.0	3054.0	3116.7	3383.8	3815.2	4136.0	3764.4	3226.3	3174.5	2857.7	2603.6
52.5°	2587.6	2604.6	2757.0	3130.7	3794.3	4373.2	4231.7	3630.9	3562.1	3134.7	2826.8
55°	2055.6	2098.4	2295.7	2688.3	3521.3	4390.1	4584.4	4037.4	3961.7	3394.7	3021.1
57.5°	1520.5	1584.3	1812.4	2173.1	2998.2	4122.1	4760.8	4426.0	4334.3	3652.8	3226.3
60°	964.5	1003.4	1266.4	1691.9	2294.7	3466.5	4737.9	4756.8	4677.1	3909.9	3440.6
62.5°	615.8	634.7	767.2	1206.6	1604.2	2566.7	4487.8	5006.9	4953.1	4144.0	3643.8
65°	395.6	403.5	471.3	742.3	1092.1	1549.4	3865.0	5033.8	5040.8	4290.5	3769.4
67.5°	321.8	325.8	350.7	458.3	772.2	855.9	2692.3	4651.2	4735.9	4252.6	3726.5
70°	292.9	297.9	323.8	365.7	597.8	590.9	1303.3	3891.9	4030.4	4034.4	3536.2
72.5°	247.1	254.1	289.0	345.8	462.3	466.3	552.0	2772.0	2976.2	3606.0	3250.3
75°	206.3	210.2	240.1	304.9	391.6	372.7	387.6	1469.7	1764.6	2891.5	2946.3
77.5°	167.4	171.4	193.3	243.1	347.7	290.0	304.9	608.8	752.3	1962.9	2408.3
80°	119.6	123.6	148.5	189.3	263.0	261.1	226.2	335.8	364.7	1061.2	1564.3
82.5°	85.7	88.7	112.6	135.5	182.3	262.1	170.4	228.2	239.1	470.3	630.7
85°	57.8	57.8	77.7	89.7	117.6	165.4	137.5	154.4	161.4	223.2	170.4
87.5°	24.9	24.9	41.8	45.8	61.8	76.7	102.6	77.7	79.7	120.6	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P397899

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	952.6	953.6	955.5	961.5	965.5	971.5	974.5	978.5	978.5	976.5	977.5
5°	950.6	953.6	960.5	971.5	978.5	989.4	997.4	1003.4	1005.4	1003.4	1004.4
7.5°	949.6	954.5	966.5	982.4	992.4	1006.4	1017.3	1024.3	1029.3	1027.3	1028.3
10°	946.6	954.5	969.5	989.4	1004.4	1018.3	1028.3	1031.3	1034.3	1032.3	1031.3
12.5°	950.6	959.5	975.5	999.4	1016.3	1027.3	1030.3	1025.3	1018.3	1014.3	1013.3
15°	958.5	967.5	983.4	1008.4	1023.3	1027.3	1020.3	1004.4	988.4	979.5	978.5
17.5°	969.5	975.5	988.4	1010.3	1022.3	1017.3	1003.4	984.4	972.5	965.5	966.5
20°	976.5	976.5	986.4	1003.4	1013.3	1009.4	992.4	971.5	952.6	943.6	940.6
22.5°	986.4	981.5	982.4	997.4	1011.3	1005.4	969.5	932.6	905.7	895.8	894.8
25°	1013.3	999.4	990.4	999.4	1032.3	983.4	911.7	868.9	843.9	835.0	836.0
27.5°	1046.2	1027.3	1008.4	1023.3	1049.2	933.6	838.0	789.1	774.2	767.2	770.2
30°	1079.1	1054.2	1029.3	1083.1	1037.3	855.9	743.3	695.5	682.5	677.6	681.5
32.5°	1139.9	1099.0	1069.1	1162.8	1000.4	767.2	640.7	596.8	584.9	578.9	576.9
35°	1241.5	1189.7	1159.8	1232.5	948.6	668.6	547.0	516.1	503.2	490.2	488.2
37.5°	1388.0	1325.2	1298.3	1272.4	875.8	570.9	475.3	454.4	435.4	415.5	414.5
40°	1563.3	1481.6	1461.7	1290.3	775.2	479.3	425.5	405.5	381.6	362.7	363.7
42.5°	1765.6	1661.0	1618.2	1285.4	650.6	430.4	389.6	367.7	346.7	329.8	328.8
45°	1981.8	1863.3	1764.6	1250.5	527.1	396.6	367.7	341.8	320.8	301.9	299.9
47.5°	2221.0	2088.5	1900.1	1182.7	435.4	372.7	354.7	317.9	298.9	287.0	287.0
50°	2462.1	2303.7	2024.7	1080.1	381.6	354.7	335.8	304.9	290.0	280.0	280.0
52.5°	2668.4	2527.9	2127.3	957.5	347.7	339.8	322.8	298.9	283.0	274.0	273.0
55°	2868.6	2736.1	2219.0	836.0	319.8	319.8	319.8	293.9	276.0	268.0	267.0
57.5°	3067.9	2955.3	2314.6	756.3	294.9	302.9	313.9	288.0	270.0	263.0	262.1
60°	3293.1	3218.4	2425.2	700.5	273.0	285.0	305.9	281.0	260.1	254.1	253.1
62.5°	3532.2	3532.2	2525.9	621.8	253.1	270.0	293.9	272.0	251.1	246.1	245.1
65°	3719.6	3800.3	2590.6	504.2	233.2	255.1	280.0	260.1	239.1	238.1	236.1
67.5°	3741.5	3868.0	2549.8	380.6	215.2	239.1	266.0	247.1	227.2	227.2	224.2
70°	3584.0	3712.6	2422.2	285.0	202.3	223.2	248.1	231.2	212.2	214.2	209.2
72.5°	3321.0	3352.9	2105.4	225.2	187.3	206.3	226.2	213.2	196.3	196.3	189.3
75°	2974.2	2796.9	1529.5	188.3	169.4	186.3	204.3	193.3	178.4	173.4	169.4
77.5°	2367.4	2026.7	888.8	162.4	154.4	167.4	179.4	171.4	158.4	147.5	147.5
80°	1442.8	1187.7	392.6	140.5	136.5	146.5	154.4	145.5	134.5	123.6	120.6
82.5°	549.0	458.3	190.3	120.6	119.6	125.5	131.5	122.6	114.6	109.6	94.7
85°	150.5	138.5	130.5	100.6	98.6	97.6	104.6	100.6	89.7	73.7	65.8
87.5°	56.8	64.8	70.7	61.8	65.8	60.8	69.7	63.8	56.8	36.9	32.9
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)