

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: P348651

Luminaire Tested: **ARCH-N-PA1-60-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-60-730-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6950 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62  
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

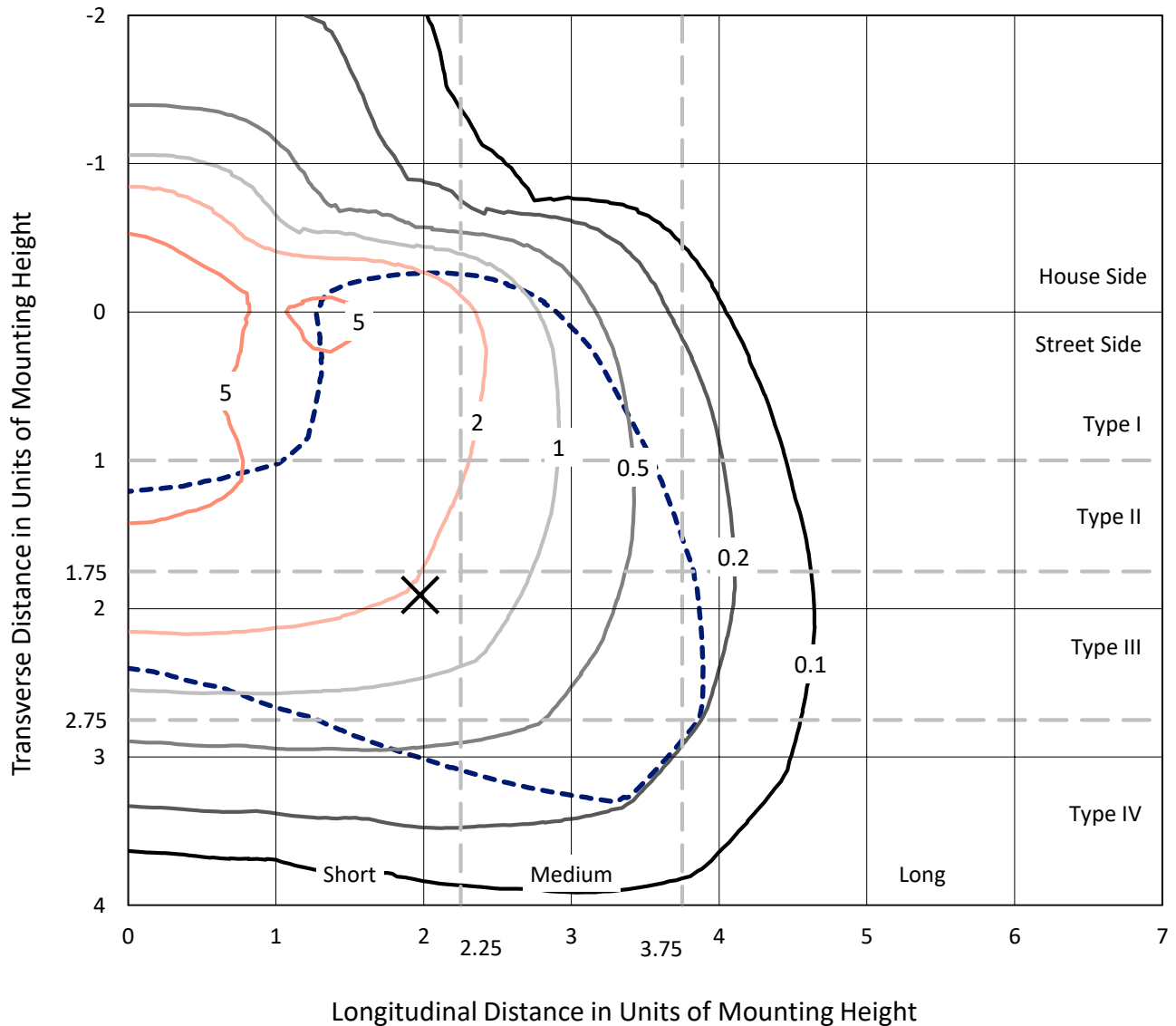




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### Iso-Footcandle Lines of Horizontal Illumination

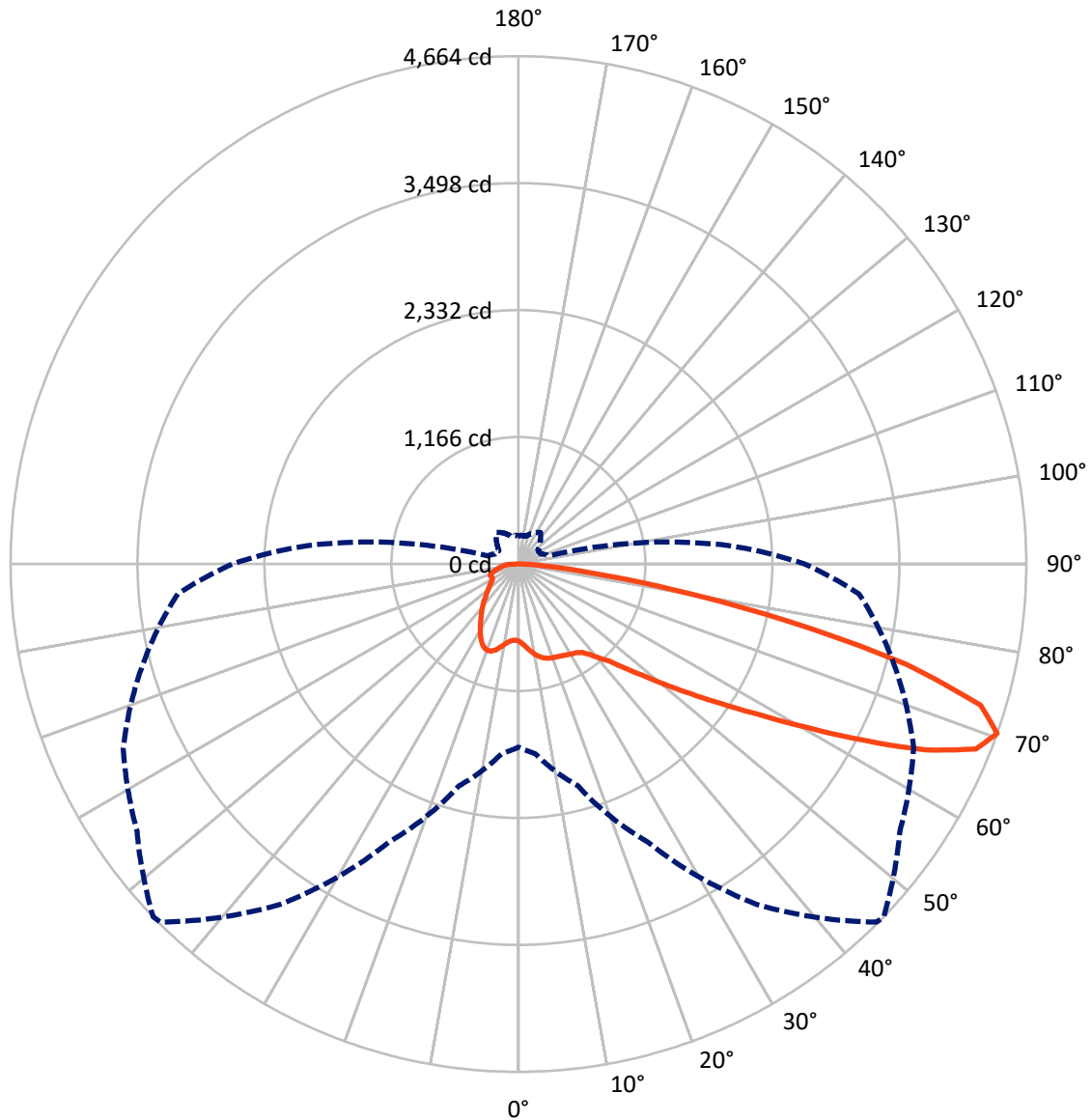
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1592.9	0.0	1592.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5357.1	0.0	5357.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6950.0	0.0	6950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	240.5	3.5
20°-30°	401.0	5.8
30°-40°	569.0	8.2
40°-50°	837.0	12.0
50°-60°	1417.5	20.4
60°-70°	2012.1	29.0
70°-80°	1222.4	17.6
80°-90°	178.4	2.6
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°	6950.0	100.0
0°-180°	6950.0	100.0

**Coefficient of Utilization**



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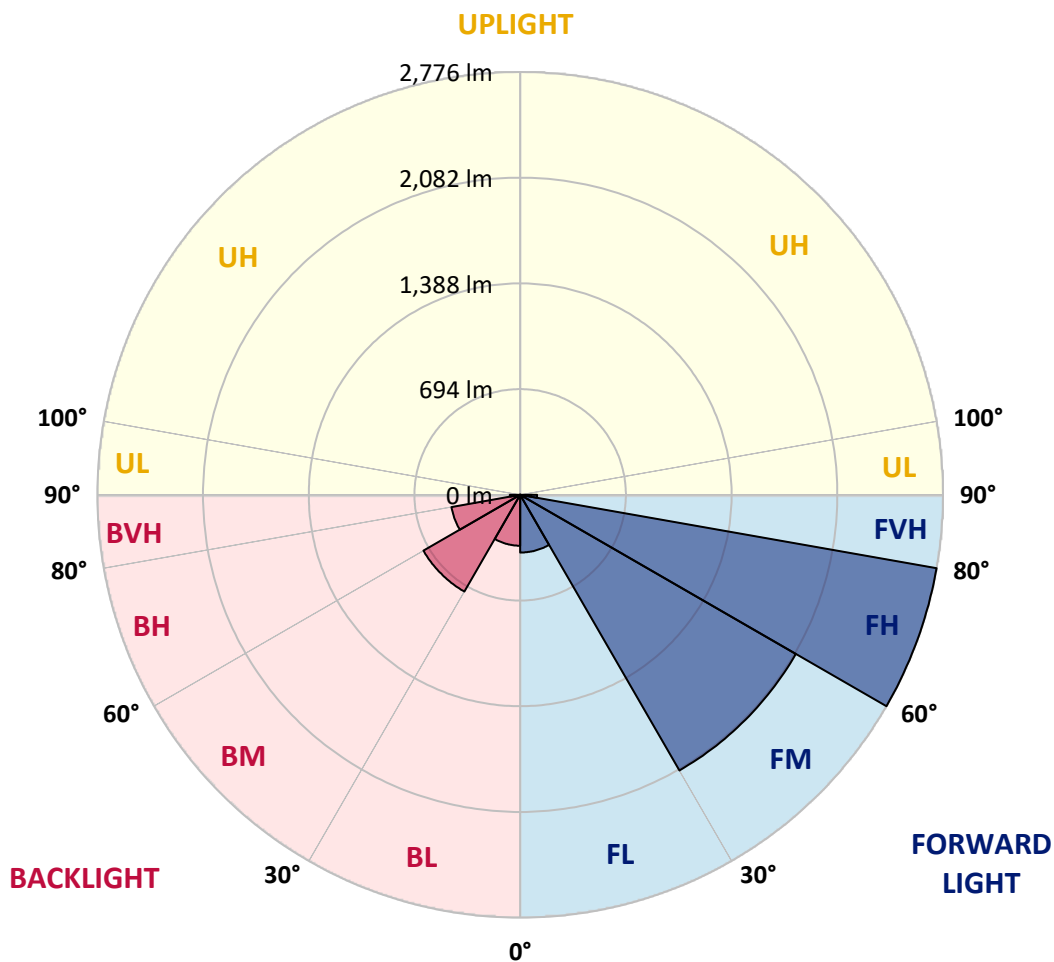
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.2	5.5			
FM	(30°-60°)	2090.3	30.1			
FH	(60°-80°)	2776.5	39.9			G2/5000
FVH	(80°-90°)	111.1	1.6			G2/225
BL	(0°-30°)	334.4	4.8	B1/500		
BM	(30°-60°)	733.3	10.6	B1/1000		
BH	(60°-80°)	458.0	6.6	B1/500		G1/500
BVH	(80°-90°)	67.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	743.5	744.0	744.9	742.6	735.9	734.0	733.3	726.4	721.9	715.2	709.5
5°	803.0	803.4	802.0	795.4	780.6	769.7	768.7	753.0	738.8	723.5	712.1
7.5°	865.0	865.8	861.2	848.6	827.9	808.9	807.7	786.3	764.7	741.6	724.5
10°	920.0	917.1	909.8	892.2	867.7	844.4	843.4	821.0	796.1	768.2	745.4
12.5°	956.6	954.2	944.7	923.3	896.4	875.0	873.1	852.4	828.2	797.7	770.4
15°	976.8	978.5	965.7	941.4	915.2	897.2	895.5	880.7	859.1	828.4	797.0
17.5°	979.5	980.9	968.5	944.5	923.1	910.7	910.0	900.2	884.6	855.1	822.2
20°	964.2	965.2	955.0	935.2	921.2	917.4	917.1	912.9	901.2	875.0	843.2
22.5°	942.1	942.8	935.5	921.2	916.4	922.4	924.0	922.4	914.0	889.5	859.6
25°	936.6	936.2	928.6	914.0	918.1	930.7	932.8	933.5	927.8	906.4	880.5
27.5°	963.0	961.4	946.9	923.6	926.2	941.4	944.3	951.1	947.6	928.8	904.3
30°	1039.4	1036.5	1006.8	959.7	946.9	954.7	958.3	969.2	969.9	954.2	935.9
32.5°	1168.3	1164.7	1111.5	1027.3	981.8	968.3	971.6	988.0	996.8	984.7	964.9
35°	1331.2	1327.2	1257.3	1142.1	1040.3	994.2	996.6	1009.7	1027.3	1010.1	984.0
37.5°	1501.0	1491.3	1424.0	1277.2	1133.3	1049.6	1049.6	1051.3	1059.6	1023.9	1006.3
40°	1669.9	1660.2	1599.3	1436.1	1253.7	1136.9	1131.4	1094.6	1087.9	1057.2	1051.3
42.5°	1826.9	1824.0	1788.1	1615.7	1395.0	1222.8	1215.2	1152.6	1154.0	1135.0	1135.2
45°	1993.9	1993.9	1964.6	1796.9	1559.6	1360.7	1353.1	1261.1	1275.3	1266.5	1287.7
47.5°	2130.2	2134.4	2130.4	1985.8	1751.0	1536.0	1522.2	1411.4	1451.3	1481.5	1543.1
50°	2269.3	2276.0	2276.7	2192.9	1982.5	1744.4	1728.7	1610.9	1700.1	1786.7	1907.8
52.5°	2471.2	2486.2	2426.5	2399.6	2266.0	1991.7	1976.3	1867.6	2016.5	2138.0	2346.6
55°	2658.4	2645.3	2602.8	2619.4	2569.5	2273.3	2261.7	2166.3	2369.0	2526.9	2797.8
57.5°	2759.7	2758.8	2801.6	2872.9	2896.7	2620.6	2610.8	2518.1	2766.4	2885.1	3221.4
60°	2878.7	2880.3	2986.4	3148.4	3246.4	3053.0	3048.7	2978.3	3152.4	3219.5	3553.7
62.5°	2895.3	2925.3	3107.9	3386.7	3573.6	3558.2	3567.7	3392.9	3497.8	3486.4	3801.7
65°	2703.8	2743.3	3073.9	3458.8	3899.0	4110.7	4119.5	3809.8	3770.1	3714.4	3890.5
67.5°	2311.4	2369.9	2729.1	3302.0	4006.3	4519.1	4531.5	4133.1	3996.1	3791.7	3676.9
70°	1682.1	1747.0	2108.5	2820.1	3815.1	4649.7	4663.7	4276.0	4004.6	3571.7	3138.9
72.5°	1016.1	1067.0	1365.0	2076.2	3220.0	4411.8	4436.8	4094.8	3656.2	3025.4	2317.8
75°	446.2	479.5	660.0	1196.4	2305.2	3650.2	3681.4	3504.9	2970.7	2198.7	1370.0
77.5°	190.0	199.6	270.7	519.7	1303.2	2494.3	2537.1	2560.9	2015.5	1196.4	578.9
80°	118.4	122.3	153.2	235.2	609.8	1400.9	1447.1	1506.8	1000.9	439.8	202.2
82.5°	72.1	76.3	101.8	142.2	317.5	635.1	657.2	699.3	388.4	190.0	104.7
85°	43.3	46.4	62.3	89.9	180.8	249.7	249.5	275.9	182.9	122.3	55.2
87.5°	20.7	23.1	33.3	46.6	91.1	93.7	87.8	99.4	111.1	80.2	27.8
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°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	707.6	706.6	703.5	701.2	700.7	699.3	698.1	698.8	699.7	700.0	700.0
5°	707.4	704.7	700.7	699.0	701.2	704.0	707.6	712.4	715.2	717.3	718.8
7.5°	718.8	713.8	709.3	708.3	712.6	720.2	728.3	738.3	745.2	749.9	750.9
10°	737.8	731.6	727.1	728.0	735.7	746.6	758.0	770.9	781.3	787.7	788.2
12.5°	759.7	753.7	749.5	753.5	766.1	779.4	791.3	802.5	812.0	818.4	818.4
15°	784.9	780.6	775.6	784.9	802.0	813.9	818.9	824.4	829.6	834.4	833.4
17.5°	809.2	805.1	802.5	813.4	831.3	836.7	833.4	829.4	829.4	832.0	832.5
20°	830.1	826.5	828.2	838.9	848.2	842.5	830.1	817.2	812.0	813.4	814.9
22.5°	848.4	846.7	851.7	856.7	850.1	830.1	807.3	789.9	783.5	783.0	783.5
25°	869.8	869.6	875.8	866.7	837.2	800.4	769.7	752.8	749.2	752.1	756.8
27.5°	896.4	899.1	902.2	869.1	811.1	755.4	724.2	712.6	716.2	723.1	727.6
30°	930.5	937.6	930.9	863.1	773.5	704.0	674.3	671.0	680.7	690.5	695.2
32.5°	963.5	974.7	958.5	847.7	725.0	649.6	626.5	625.5	637.4	646.9	653.6
35°	990.2	1012.3	979.2	817.0	668.8	599.4	582.5	576.1	580.3	591.5	599.1
37.5°	1024.9	1061.7	993.5	770.1	607.9	558.0	538.2	523.5	519.7	524.2	528.0
40°	1088.4	1137.1	1000.1	704.7	548.5	516.6	496.6	475.0	460.0	449.1	449.3
42.5°	1192.1	1235.4	995.9	625.3	493.5	476.2	453.6	428.6	404.3	379.6	377.7
45°	1360.5	1381.4	983.0	541.1	445.2	433.8	412.7	387.7	355.3	327.3	324.7
47.5°	1630.0	1583.6	963.0	467.6	402.7	397.9	378.4	349.6	315.4	292.8	290.9
50°	1997.4	1875.4	953.3	409.1	365.1	366.5	350.6	320.1	287.8	271.1	269.2
52.5°	2437.0	2215.3	972.1	363.9	334.9	339.9	328.0	299.4	272.3	259.3	257.3
55°	2892.9	2567.3	992.3	331.1	306.3	316.1	312.1	288.5	264.0	251.9	250.2
57.5°	3283.2	2830.1	951.9	304.4	280.9	296.1	299.7	281.6	259.7	248.8	246.9
60°	3528.9	2936.0	845.8	279.5	260.7	280.2	292.6	279.7	261.4	260.4	259.0
62.5°	3645.5	2926.7	686.7	259.7	248.1	273.3	297.8	290.4	280.4	289.0	289.7
65°	3593.1	2786.8	511.4	246.6	239.0	275.9	313.5	310.6	285.9	294.5	295.6
67.5°	3248.7	2453.1	378.7	235.2	229.0	283.3	342.0	317.3	275.2	281.4	277.6
70°	2625.8	1944.9	292.1	222.4	218.8	282.3	354.9	313.2	263.5	265.0	254.7
72.5°	1810.7	1326.2	237.6	210.5	204.1	257.3	345.8	303.3	253.8	242.8	229.3
75°	984.7	711.9	201.9	198.1	178.1	226.0	329.2	296.1	245.0	230.5	222.9
77.5°	387.5	295.4	175.3	181.2	155.8	199.6	310.6	282.6	232.9	213.8	210.0
80°	158.2	150.8	145.3	156.7	133.9	174.6	288.3	266.6	218.3	198.4	190.8
82.5°	89.7	93.7	113.0	123.7	108.7	160.8	277.6	253.8	201.0	177.7	168.6
85°	45.9	54.9	78.7	88.7	79.9	136.8	255.7	222.1	161.3	136.0	136.8
87.5°	22.1	30.7	49.7	55.7	51.9	98.9	191.0	161.0	125.6	99.4	96.3
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)