

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: P348658

Luminaire Tested: **ARCH-N-PA1-60-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348658  
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-PA1-60-740-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7631 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - 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

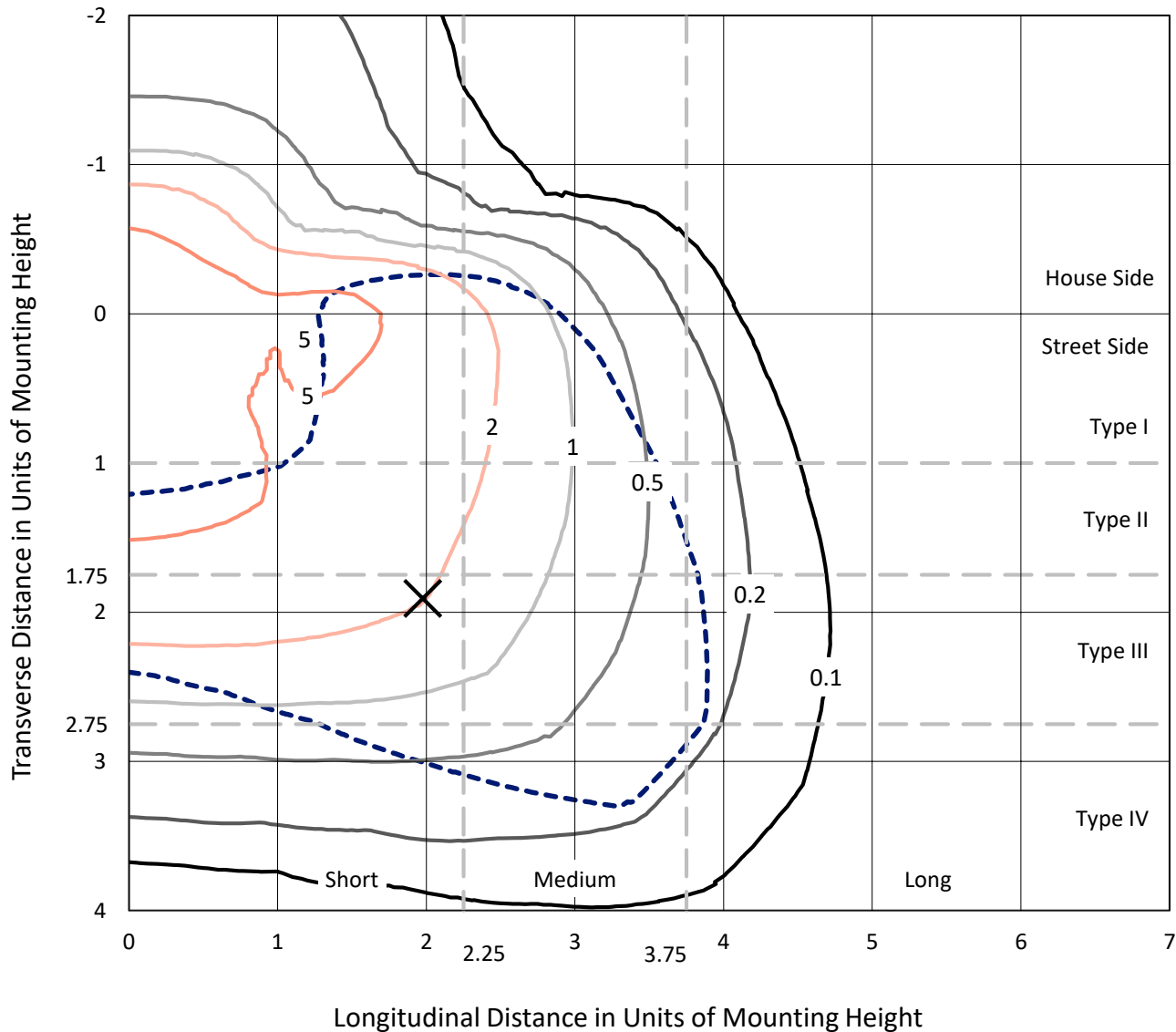


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### Iso-Footcandle Lines of Horizontal Illumination

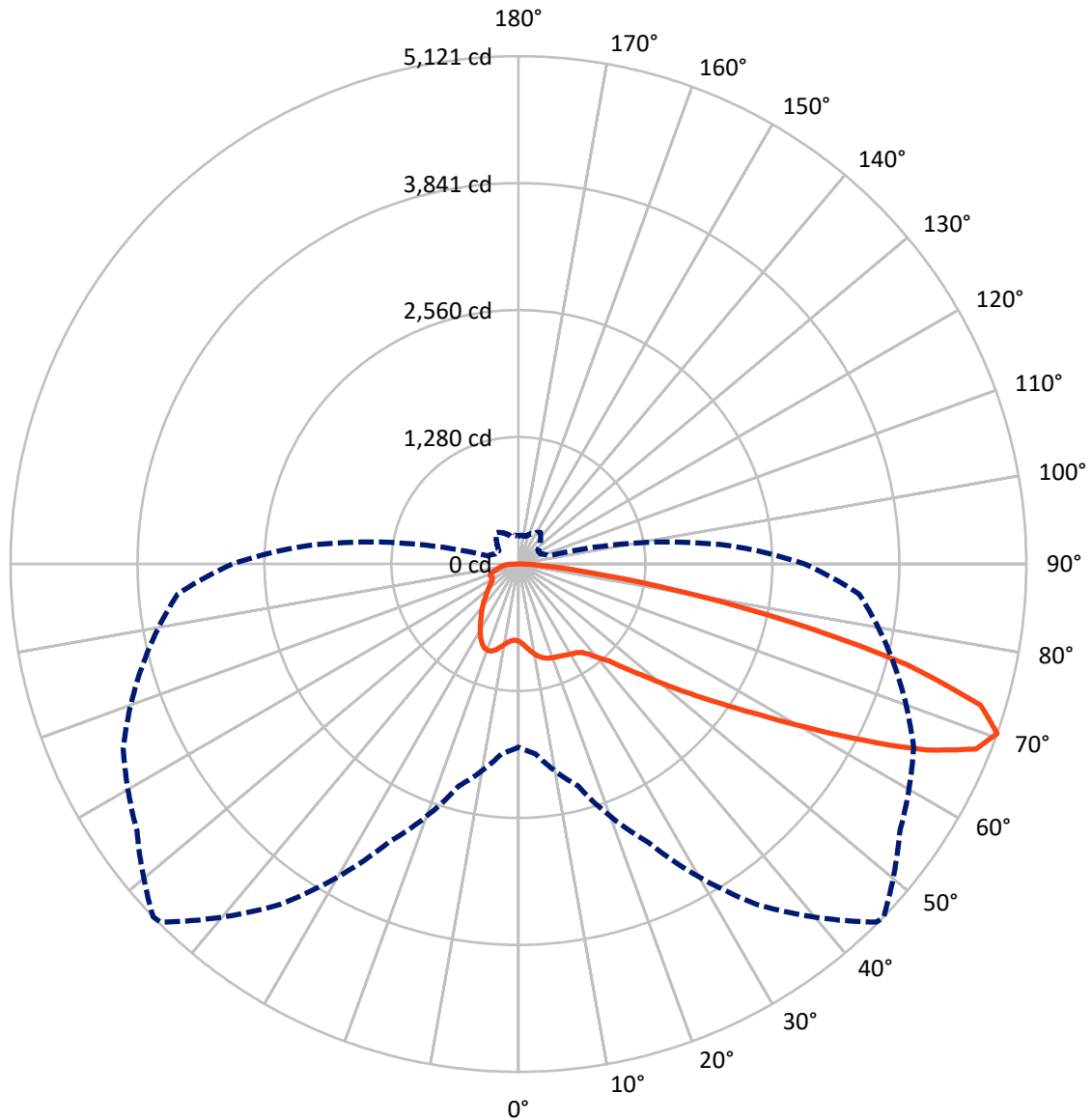
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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	1749.0	0.0	1749.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5882.0	0.0	5882.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7631.0	0.0	7631.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	1.0
10°-20°	264.1	3.5
20°-30°	440.3	5.8
30°-40°	624.8	8.2
40°-50°	919.0	12.0
50°-60°	1556.4	20.4
60°-70°	2209.2	29.0
70°-80°	1342.1	17.6
80°-90°	195.9	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°	7631.0	100.0
0°-180°	7631.0	100.0



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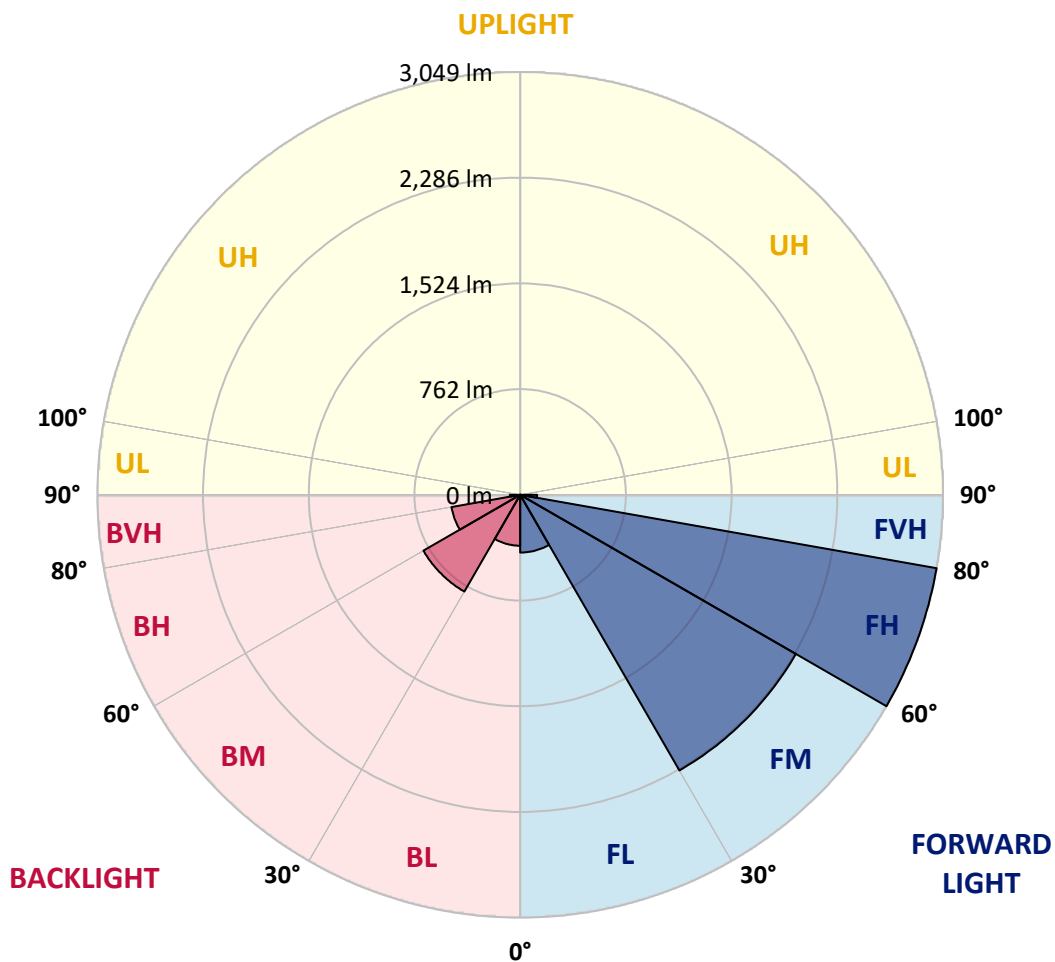
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.4	5.5			
FM	(30°-60°)	2295.1	30.1			
FH	(60°-80°)	3048.5	39.9			G2/5000
FVH	(80°-90°)	122.0	1.6			G2/225
BL	(0°-30°)	367.2	4.8	B1/500		
BM	(30°-60°)	805.1	10.6	B1/1000		
BH	(60°-80°)	502.8	6.6	B2/1000		G2/1000
BVH	(80°-90°)	73.9	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	816.4	816.9	817.9	815.3	808.0	805.9	805.1	797.6	792.6	785.3	779.0
5°	881.6	882.2	880.6	873.3	857.1	845.1	844.0	826.8	811.1	794.4	781.9
7.5°	949.8	950.6	945.6	931.8	909.1	888.2	886.9	863.4	839.6	814.3	795.5
10°	1010.1	1007.0	998.9	979.6	952.7	927.1	926.0	901.5	874.1	843.5	818.5
12.5°	1050.4	1047.7	1037.3	1013.8	984.3	960.8	958.7	936.0	909.3	875.9	845.9
15°	1072.6	1074.4	1060.3	1033.6	1004.9	985.1	983.2	967.0	943.3	909.6	875.1
17.5°	1075.4	1077.0	1063.4	1037.0	1013.5	1000.0	999.2	988.5	971.2	938.8	902.8
20°	1058.7	1059.8	1048.5	1026.8	1011.4	1007.3	1007.0	1002.3	989.5	960.8	925.8
22.5°	1034.4	1035.2	1027.1	1011.4	1006.2	1012.7	1014.6	1012.7	1003.6	976.7	943.8
25°	1028.4	1027.9	1019.5	1003.6	1008.0	1021.9	1024.2	1025.0	1018.8	995.3	966.8
27.5°	1057.4	1055.6	1039.6	1014.1	1016.9	1033.6	1036.8	1044.3	1040.4	1019.8	992.9
30°	1141.2	1138.1	1105.5	1053.7	1039.6	1048.3	1052.2	1064.2	1065.0	1047.7	1027.6
32.5°	1282.8	1278.9	1220.4	1127.9	1078.0	1063.1	1066.8	1084.8	1094.5	1081.2	1059.5
35°	1461.7	1457.2	1380.4	1254.1	1142.3	1091.6	1094.2	1108.6	1127.9	1109.1	1080.4
37.5°	1648.1	1637.4	1563.5	1402.4	1244.4	1152.5	1152.5	1154.3	1163.4	1124.3	1104.9
40°	1833.5	1822.8	1756.0	1576.8	1376.5	1248.3	1242.3	1201.8	1194.5	1160.8	1154.3
42.5°	2005.9	2002.8	1963.3	1774.0	1531.7	1342.6	1334.2	1265.5	1267.1	1246.2	1246.5
45°	2189.2	2189.2	2157.1	1973.0	1712.4	1494.1	1485.7	1384.6	1400.3	1390.6	1413.9
47.5°	2338.9	2343.6	2339.1	2180.4	1922.6	1686.5	1671.4	1549.7	1593.5	1626.7	1694.4
50°	2491.7	2499.0	2499.7	2407.8	2176.7	1915.3	1898.1	1768.8	1866.7	1961.8	2094.7
52.5°	2713.4	2729.8	2664.3	2634.8	2488.0	2186.9	2169.9	2050.6	2214.0	2347.5	2576.5
55°	2918.9	2904.5	2857.8	2876.1	2821.2	2496.1	2483.3	2378.6	2601.1	2774.5	3071.9
57.5°	3030.1	3029.1	3076.1	3154.5	3180.6	2877.4	2866.7	2764.8	3037.5	3167.8	3537.0
60°	3160.7	3162.6	3279.0	3456.9	3564.5	3352.1	3347.4	3270.1	3461.3	3535.0	3901.9
62.5°	3179.0	3211.9	3412.5	3718.5	3923.8	3906.8	3917.3	3725.3	3840.5	3828.0	4174.3
65°	2968.8	3012.1	3375.1	3797.7	4281.1	4513.5	4523.2	4183.1	4139.5	4078.4	4271.7
67.5°	2537.9	2602.1	2996.5	3625.6	4398.8	4961.9	4975.5	4538.0	4387.6	4163.3	4037.1
70°	1846.9	1918.2	2315.1	3096.5	4188.9	5105.3	5120.7	4695.0	4397.0	3921.7	3446.4
72.5°	1115.6	1171.5	1498.8	2279.6	3535.5	4844.1	4871.5	4496.0	4014.4	3321.9	2544.9
75°	489.9	526.5	724.7	1313.6	2531.1	4007.9	4042.1	3848.3	3261.8	2414.1	1504.2
77.5°	208.7	219.1	297.2	570.6	1430.9	2738.7	2785.7	2811.8	2213.0	1313.6	635.6
80°	130.1	134.2	168.2	258.3	669.6	1538.2	1588.8	1654.4	1098.9	482.9	222.0
82.5°	79.1	83.8	111.8	156.2	348.6	697.3	721.6	767.8	426.5	208.7	114.9
85°	47.5	50.9	68.4	98.7	198.5	274.2	273.9	302.9	200.8	134.2	60.6
87.5°	22.7	25.3	36.6	51.2	100.0	102.9	96.4	109.2	122.0	88.0	30.6
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°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	776.9	775.9	772.5	769.9	769.4	767.8	766.5	767.3	768.3	768.6	768.6
5°	776.7	773.8	769.4	767.5	769.9	773.0	776.9	782.2	785.3	787.6	789.2
7.5°	789.2	783.7	778.8	777.7	782.4	790.8	799.6	810.6	818.2	823.4	824.5
10°	810.1	803.3	798.3	799.4	807.7	819.8	832.3	846.4	857.9	864.9	865.5
12.5°	834.1	827.6	822.9	827.3	841.2	855.8	868.9	881.1	891.6	898.6	898.6
15°	861.8	857.1	851.6	861.8	880.6	893.7	899.1	905.2	910.9	916.1	915.1
17.5°	888.4	884.0	881.1	893.1	912.7	918.7	915.1	910.6	910.6	913.5	914.0
20°	911.4	907.5	909.3	921.1	931.3	925.0	911.4	897.3	891.6	893.1	894.7
22.5°	931.5	929.7	935.2	940.7	933.4	911.4	886.3	867.3	860.2	859.7	860.2
25°	955.0	954.8	961.6	951.6	919.3	878.8	845.1	826.5	822.6	825.8	831.0
27.5°	984.3	987.2	990.5	954.2	890.5	829.4	795.2	782.4	786.3	793.9	798.9
30°	1021.6	1029.5	1022.1	947.7	849.3	773.0	740.4	736.7	747.4	758.1	763.3
32.5°	1057.9	1070.2	1052.4	930.7	796.0	713.2	687.9	686.8	699.9	710.3	717.6
35°	1087.2	1111.5	1075.2	897.1	734.4	658.1	639.6	632.5	637.2	649.5	657.8
37.5°	1125.3	1165.8	1090.8	845.6	667.5	612.7	591.0	574.8	570.6	575.6	579.8
40°	1195.0	1248.6	1098.1	773.8	602.2	567.2	545.3	521.5	505.1	493.1	493.3
42.5°	1308.9	1356.4	1093.4	686.6	541.9	522.8	498.0	470.6	444.0	416.8	414.7
45°	1493.8	1516.8	1079.3	594.1	488.9	476.3	453.1	425.7	390.2	359.3	356.5
47.5°	1789.7	1738.8	1057.4	513.4	442.1	436.9	415.5	383.9	346.3	321.5	319.4
50°	2193.2	2059.2	1046.7	449.2	400.9	402.4	384.9	351.5	316.0	297.7	295.6
52.5°	2675.8	2432.4	1067.3	399.6	367.7	373.2	360.1	328.8	299.0	284.7	282.6
55°	3176.4	2818.9	1089.5	363.5	336.4	347.1	342.6	316.8	289.9	276.6	274.7
57.5°	3604.9	3107.4	1045.1	334.3	308.4	325.1	329.1	309.2	285.2	273.2	271.1
60°	3874.7	3223.7	928.7	306.9	286.2	307.6	321.2	307.1	287.0	286.0	284.4
62.5°	4002.7	3213.5	753.9	285.2	272.4	300.1	327.0	318.9	307.9	317.3	318.1
65°	3945.2	3059.9	561.5	270.8	262.5	302.9	344.2	341.1	313.9	323.3	324.6
67.5°	3567.1	2693.5	415.8	258.3	251.5	311.0	375.5	348.4	302.2	308.9	304.8
70°	2883.1	2135.4	320.7	244.2	240.3	310.0	389.6	343.9	289.4	290.9	279.7
72.5°	1988.2	1456.2	260.9	231.1	224.1	282.6	379.7	333.0	278.6	266.6	251.8
75°	1081.2	781.6	221.7	217.5	195.6	248.1	361.4	325.1	269.0	253.1	244.7
77.5°	425.4	324.4	192.5	199.0	171.1	219.1	341.1	310.2	255.7	234.8	230.6
80°	173.7	165.6	159.6	172.1	147.0	191.7	316.5	292.8	239.7	217.8	209.4
82.5°	98.5	102.9	124.0	135.8	119.3	176.5	304.8	278.6	220.7	195.1	185.2
85°	50.4	60.3	86.4	97.4	87.7	150.2	280.7	243.9	177.1	149.4	150.2
87.5°	24.3	33.7	54.6	61.1	56.9	108.6	209.7	176.8	137.9	109.2	105.8
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)