

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386181

Luminaire Tested: GAW-SA1D-735-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386181  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7730.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

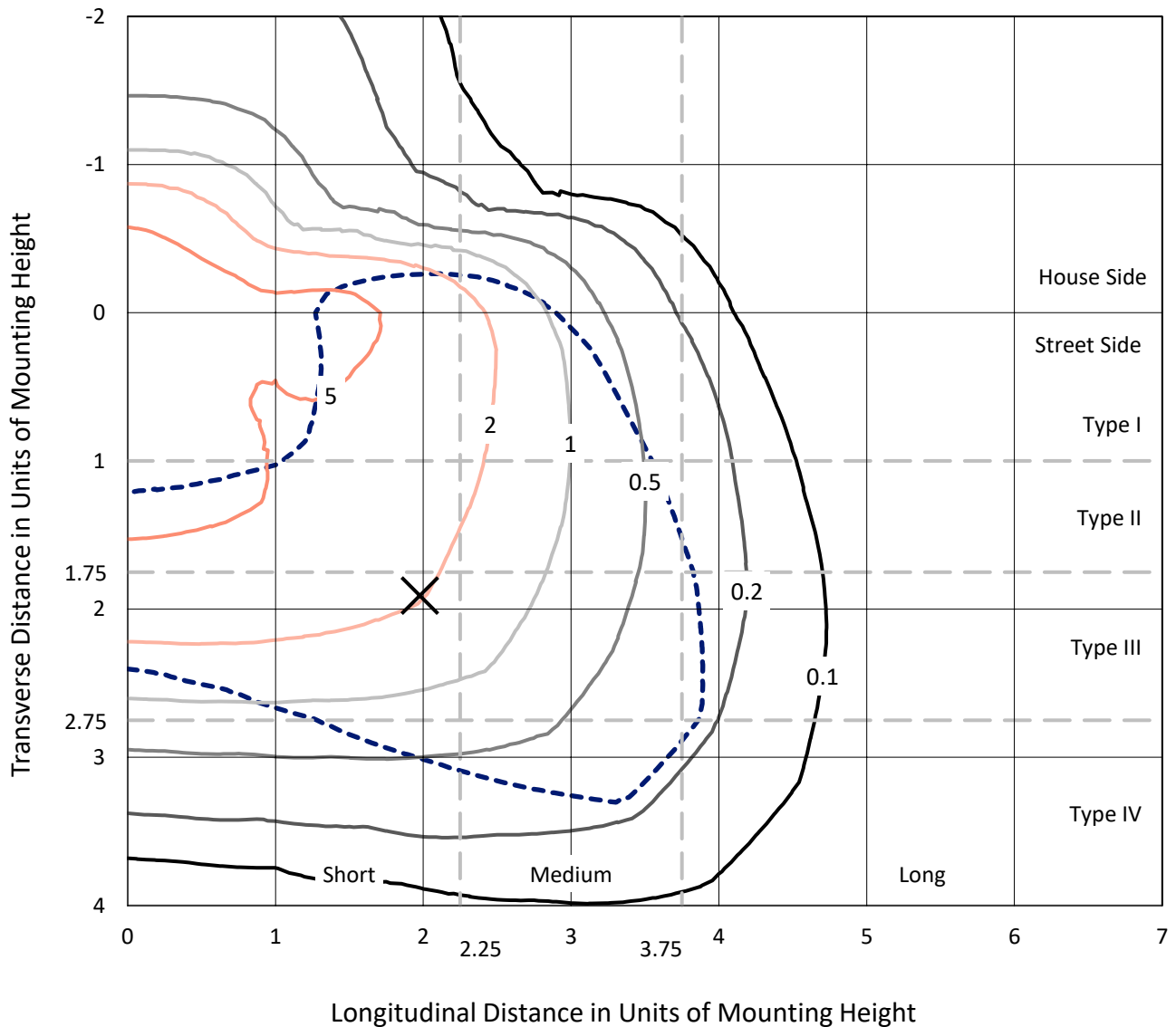
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

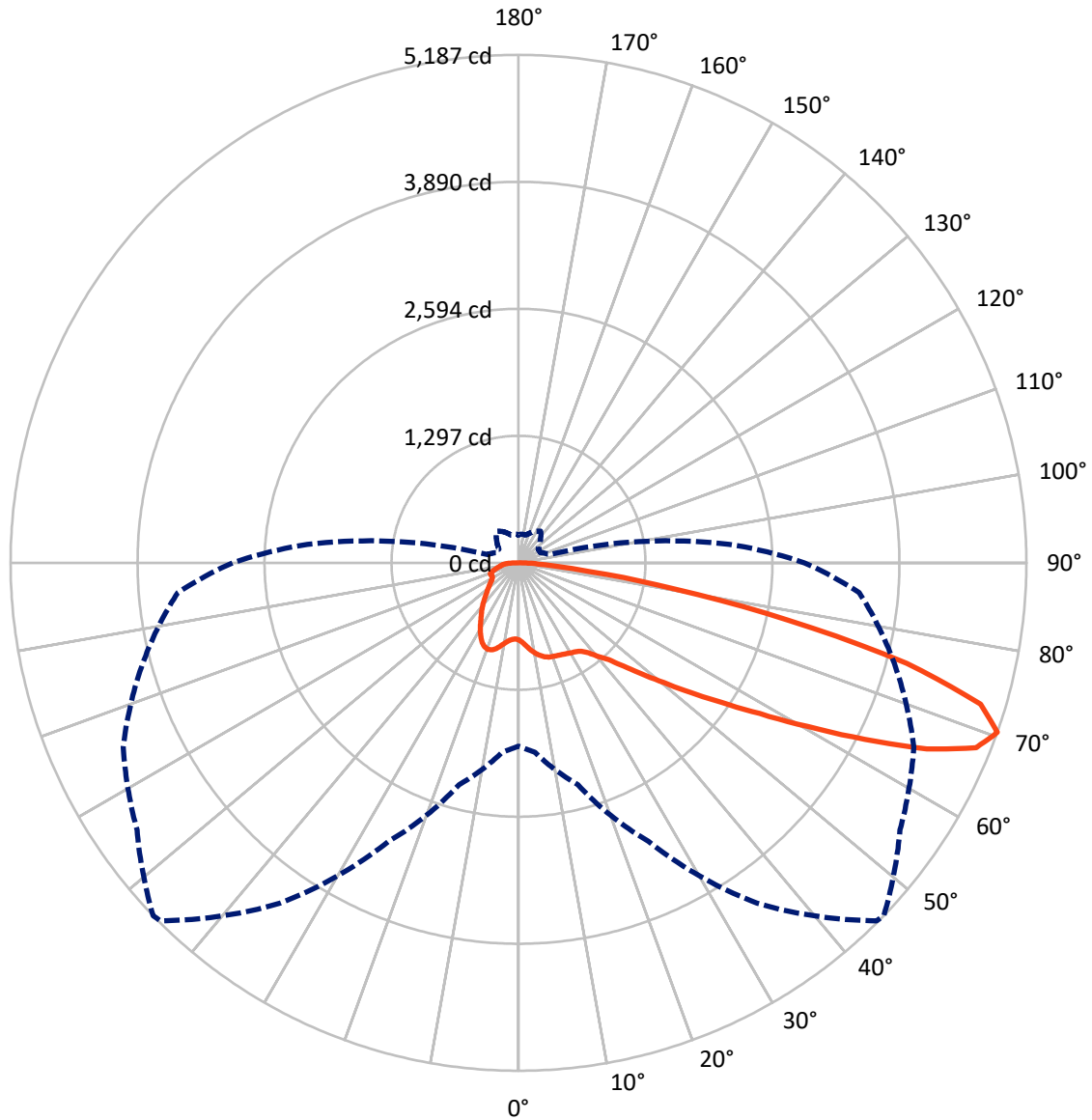
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Short - N/A

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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	1771.8	0.0	1771.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5958.5	0.0	5958.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7730.3	0.0	7730.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	1.0
10°-20°	267.5	3.5
20°-30°	446.0	5.8
30°-40°	632.9	8.2
40°-50°	931.0	12.0
50°-60°	1576.6	20.4
60°-70°	2238.0	29.0
70°-80°	1359.6	17.6
80°-90°	198.4	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°	7730.3	100.0
0°-180°	7730.3	100.0

**Coefficient of Utilization**

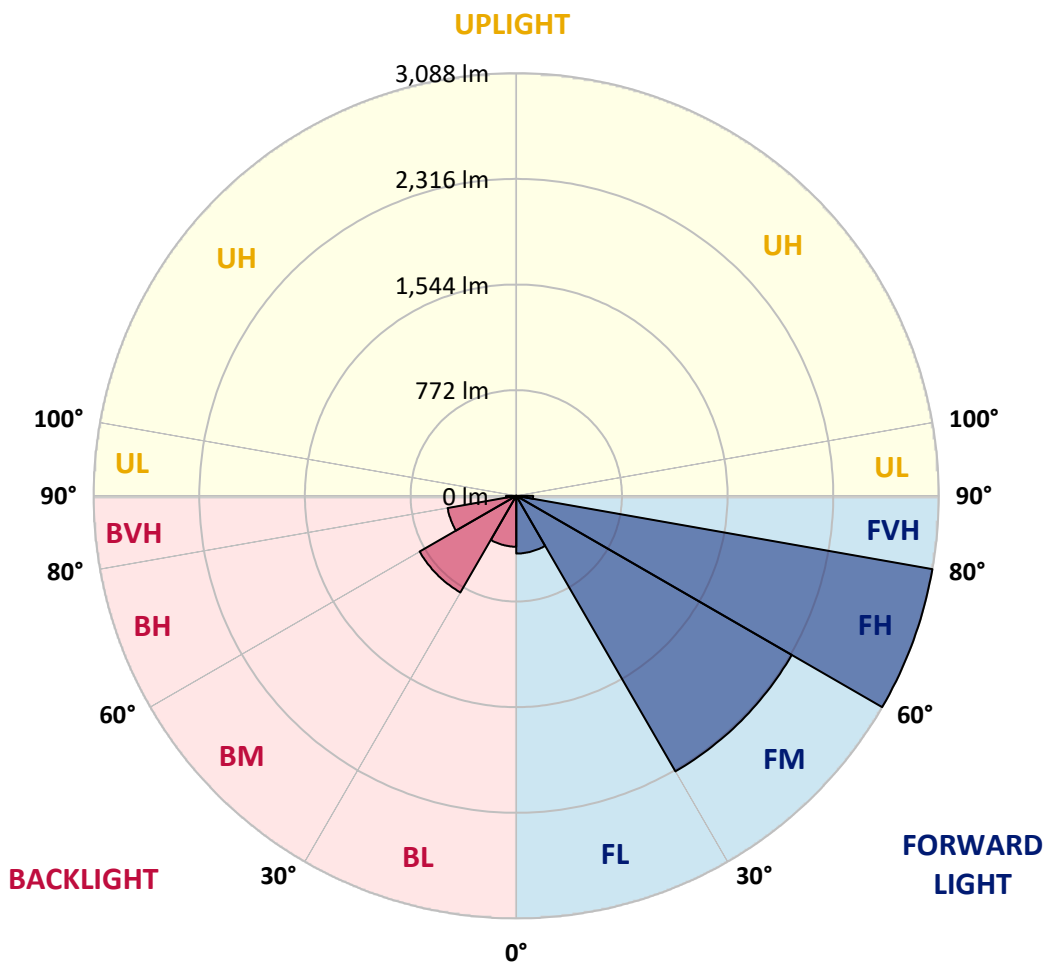


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.8	5.5			
FM (30°-60°)	2324.9	30.1			
FH (60°-80°)	3088.2	39.9			G2/5000
FVH (80°-90°)	123.6	1.6			G2/225
BL (0°-30°)	372.0	4.8	B1/500		
BM (30°-60°)	815.6	10.6	B1/1000		
BH (60°-80°)	509.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	74.8	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°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	826.9	827.5	828.5	825.9	818.5	816.4	815.6	808.0	802.9	795.5	789.2
5°	893.1	893.6	892.0	884.6	868.3	856.1	855.0	837.6	821.7	804.8	792.1
7.5°	962.1	963.0	957.9	943.9	920.9	899.8	898.4	874.6	850.5	824.9	805.8
10°	1023.3	1020.1	1011.9	992.3	965.0	939.1	938.1	913.2	885.5	854.5	829.1
12.5°	1064.1	1061.3	1050.8	1026.9	997.1	973.3	971.1	948.1	921.2	887.3	856.9
15°	1086.5	1088.4	1074.1	1047.0	1018.0	997.9	996.0	979.6	955.6	921.5	886.5
17.5°	1089.4	1091.0	1077.2	1050.5	1026.8	1012.9	1012.2	1001.3	983.8	951.0	914.6
20°	1072.5	1073.5	1062.2	1040.2	1024.6	1020.4	1020.1	1015.3	1002.3	973.3	937.8
22.5°	1047.9	1048.6	1040.5	1024.6	1019.3	1025.9	1027.8	1025.9	1016.7	989.4	956.1
25°	1041.8	1041.2	1032.8	1016.7	1021.1	1035.2	1037.6	1038.3	1032.0	1008.2	979.3
27.5°	1071.2	1069.3	1053.2	1027.2	1030.1	1047.0	1050.2	1057.9	1054.0	1033.1	1005.8
30°	1156.1	1152.9	1119.9	1067.4	1053.2	1061.9	1065.8	1078.0	1078.8	1061.3	1041.0
32.5°	1299.5	1295.5	1236.2	1142.6	1092.0	1077.0	1080.7	1098.9	1108.8	1095.2	1073.3
35°	1480.7	1476.2	1398.4	1270.3	1157.1	1105.9	1108.5	1123.0	1142.6	1123.5	1094.4
37.5°	1669.6	1658.7	1583.8	1420.6	1260.6	1167.5	1167.5	1169.3	1178.6	1138.9	1119.3
40°	1857.4	1846.6	1778.8	1597.3	1394.4	1264.5	1258.5	1217.5	1210.0	1175.9	1169.3
42.5°	2032.0	2028.8	1988.9	1797.1	1551.6	1360.1	1351.6	1282.0	1283.6	1262.5	1262.7
45°	2217.7	2217.7	2185.2	1998.7	1734.7	1513.5	1505.0	1402.6	1418.5	1408.7	1432.3
47.5°	2369.3	2374.0	2369.5	2208.7	1947.6	1708.5	1693.1	1569.8	1614.3	1647.9	1716.4
50°	2524.1	2531.5	2532.2	2439.1	2205.0	1940.2	1922.8	1791.8	1891.0	1987.3	2122.0
52.5°	2748.7	2765.3	2699.0	2669.0	2520.4	2215.4	2198.2	2077.3	2242.8	2378.1	2610.0
55°	2956.8	2942.3	2894.9	2913.4	2857.9	2528.6	2515.6	2409.5	2634.9	2810.6	3111.9
57.5°	3069.6	3068.5	3116.2	3195.5	3221.9	2914.8	2903.9	2800.8	3077.0	3209.0	3583.0
60°	3201.8	3203.7	3321.7	3501.9	3610.8	3395.7	3391.0	3312.7	3506.4	3581.0	3952.6
62.5°	3220.3	3253.7	3456.9	3766.9	3974.9	3957.7	3968.3	3773.8	3890.5	3877.7	4228.6
65°	3007.4	3051.3	3419.0	3847.1	4336.7	4572.2	4582.0	4237.5	4193.4	4131.5	4327.2
67.5°	2570.9	2635.9	3035.5	3672.7	4456.1	5026.4	5040.2	4597.1	4444.6	4217.4	4089.7
70°	1870.9	1943.1	2345.2	3136.7	4243.3	5171.6	5187.2	4756.1	4454.2	3972.7	3491.3
72.5°	1130.2	1186.7	1518.2	2309.2	3581.4	4907.1	4934.9	4554.5	4066.6	3365.1	2578.1
75°	496.3	533.3	734.1	1330.7	2564.0	4060.1	4094.7	3898.4	3304.2	2445.5	1523.8
77.5°	211.4	222.0	301.1	578.0	1449.5	2774.3	2821.9	2848.4	2241.8	1330.7	644.0
80°	131.7	136.0	170.4	261.6	678.3	1558.2	1609.6	1675.9	1113.2	489.1	224.9
82.5°	80.1	84.9	113.2	158.2	353.2	706.3	730.9	777.8	432.0	211.4	116.4
85°	48.2	51.6	69.3	100.0	201.0	277.8	277.5	306.9	203.5	136.0	61.3
87.5°	23.0	25.6	37.0	51.9	101.4	104.3	97.6	110.6	123.5	89.1	30.9
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°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	787.0	786.0	782.5	779.9	779.3	777.8	776.4	777.3	778.3	778.6	778.6
5°	786.7	783.8	779.3	777.5	779.9	783.1	787.0	792.3	795.5	797.9	799.4
7.5°	799.4	793.9	788.9	787.9	792.6	801.0	810.0	821.1	828.8	834.1	835.2
10°	820.7	813.8	808.7	809.8	818.2	830.4	843.1	857.4	869.0	876.2	876.7
12.5°	845.0	838.3	833.6	838.1	852.1	867.0	880.1	892.6	903.1	910.3	910.3
15°	873.0	868.3	862.7	873.0	892.0	905.3	910.8	916.9	922.8	928.0	927.0
17.5°	900.0	895.5	892.6	904.7	924.6	930.7	927.0	922.5	922.5	925.4	926.0
20°	923.2	919.3	921.2	933.1	943.3	937.0	923.2	909.0	903.1	904.7	906.3
22.5°	943.6	941.8	947.4	952.9	945.5	923.2	897.9	878.6	871.4	870.9	871.4
25°	967.5	967.2	974.1	964.0	931.2	890.2	856.1	837.3	833.3	836.5	841.8
27.5°	997.1	1000.0	1003.5	966.6	902.1	840.2	805.5	792.6	796.5	804.2	809.3
30°	1034.9	1042.8	1035.4	960.1	860.3	783.1	750.0	746.3	757.2	768.0	773.3
32.5°	1071.7	1084.2	1066.1	942.9	806.4	722.5	696.8	695.8	709.0	719.6	727.0
35°	1101.3	1126.0	1089.1	908.8	743.9	666.7	647.9	640.8	645.5	658.0	666.4
37.5°	1140.0	1180.9	1105.0	856.6	676.2	620.7	598.7	582.2	578.0	583.1	587.3
40°	1210.6	1264.8	1112.4	783.8	610.0	574.6	552.4	528.3	511.6	499.5	499.8
42.5°	1326.0	1374.1	1107.6	695.5	549.0	529.6	504.5	476.7	449.7	422.3	420.1
45°	1513.2	1536.5	1093.4	601.9	495.2	482.6	459.0	431.2	395.2	364.0	361.1
47.5°	1812.9	1761.4	1071.2	520.1	447.9	442.5	420.9	388.9	350.8	325.7	323.5
50°	2221.7	2086.0	1060.3	455.0	406.1	407.7	389.9	356.1	320.1	301.5	299.5
52.5°	2710.5	2464.0	1081.2	404.8	372.5	378.0	364.8	333.1	303.0	288.4	286.2
55°	3217.7	2855.6	1103.7	368.2	340.7	351.6	347.1	320.9	293.7	280.1	278.3
57.5°	3651.8	3147.9	1058.7	338.7	312.4	329.4	333.3	313.2	288.9	276.7	274.6
60°	3925.2	3265.6	940.7	310.8	290.0	311.6	325.4	311.1	290.7	289.7	288.1
62.5°	4054.7	3255.3	763.7	288.9	275.9	304.0	331.2	323.1	311.9	321.5	322.2
65°	3996.6	3099.7	568.8	274.3	265.8	306.9	348.7	345.5	318.0	327.5	328.9
67.5°	3613.5	2728.6	421.1	261.6	254.8	315.1	380.5	352.9	306.1	313.0	308.7
70°	2920.7	2163.2	324.8	247.3	243.4	314.0	394.7	348.4	293.1	294.7	283.3
72.5°	2014.1	1475.1	264.3	234.1	227.0	286.2	384.7	337.3	282.3	270.1	255.0
75°	1095.2	791.8	224.6	220.4	198.1	251.3	366.2	329.4	272.5	256.4	247.9
77.5°	431.0	328.6	195.0	201.6	173.3	222.0	345.5	314.3	259.0	237.9	233.6
80°	175.9	167.7	161.7	174.4	149.0	194.2	320.6	296.6	242.8	220.7	212.2
82.5°	99.8	104.3	125.7	137.5	120.9	178.9	308.7	282.3	223.6	197.6	187.6
85°	51.1	61.2	87.6	98.6	88.9	152.1	284.4	247.1	179.3	151.3	152.1
87.5°	24.6	34.1	55.3	61.9	57.7	110.1	212.4	179.1	139.7	110.6	107.2
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)