

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: P386517

Luminaire Tested: GAW-SA2A-830-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386517  
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-SA2A-830-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7675 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

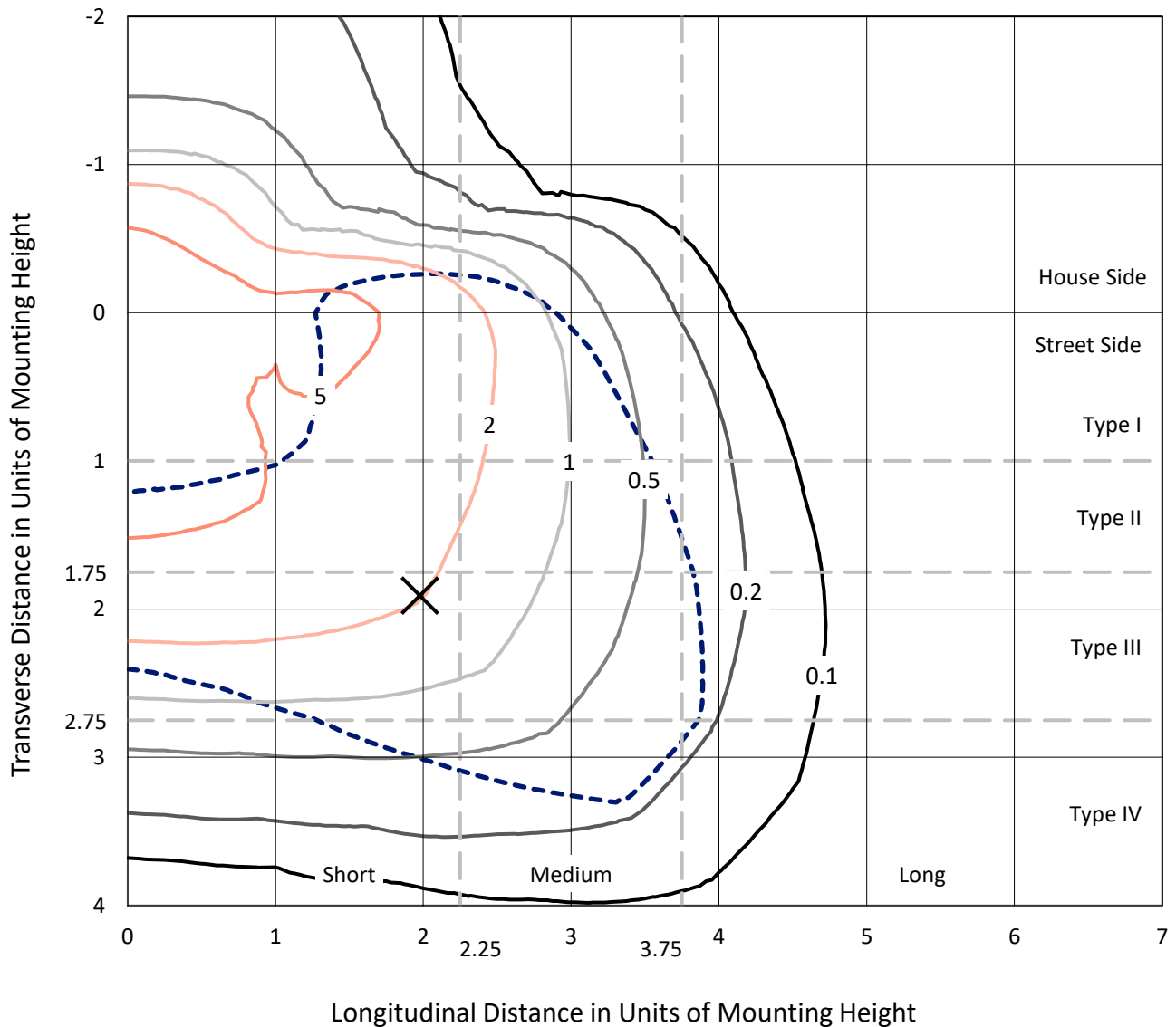
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

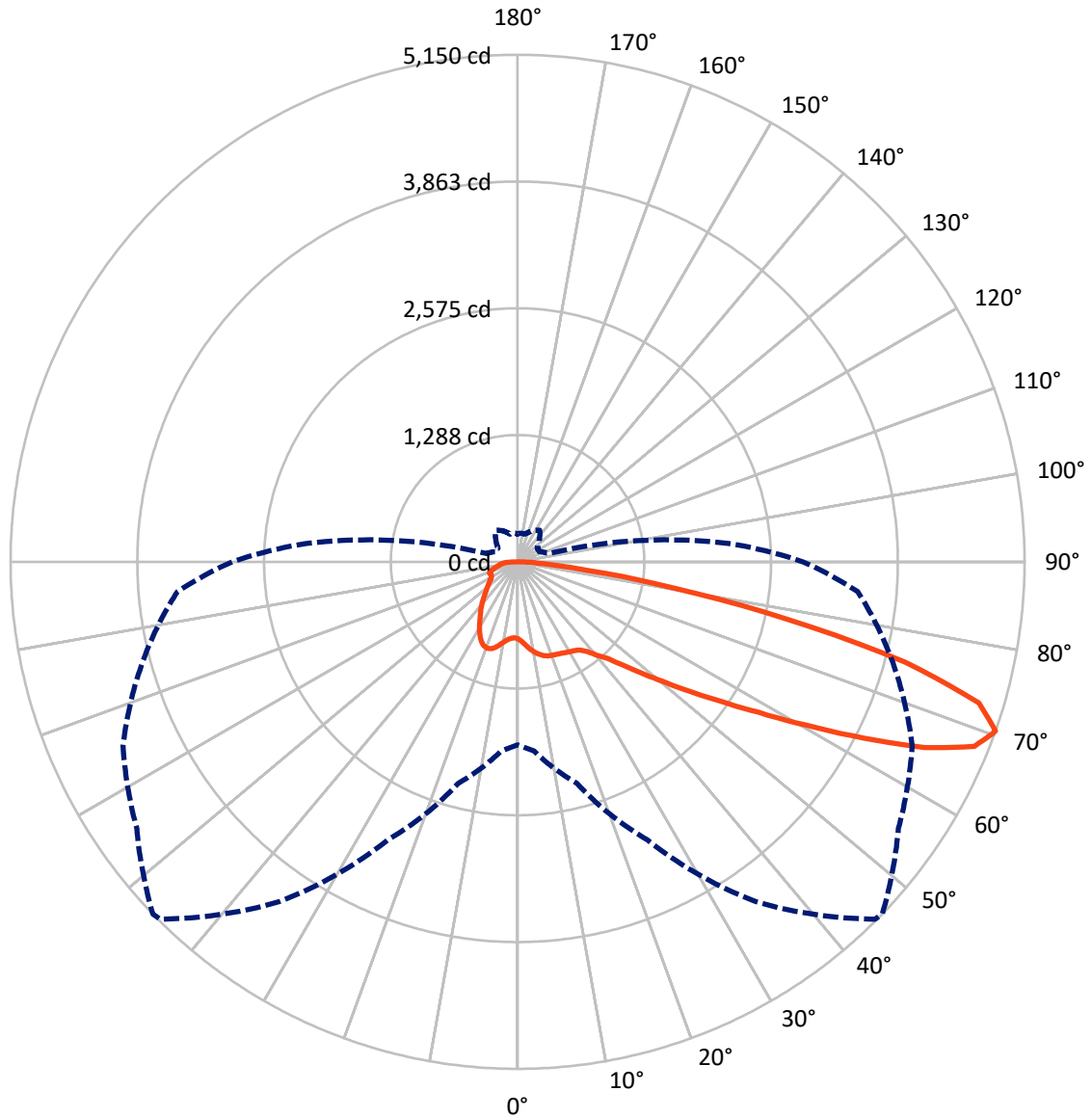
× Max cd  
 - - - 1/2 Max cd



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	1759.1	0.0	1759.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5915.9	0.0	5915.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7675.0	0.0	7675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	1.0
10°-20°	265.6	3.5
20°-30°	442.8	5.8
30°-40°	628.4	8.2
40°-50°	924.3	12.0
50°-60°	1565.3	20.4
60°-70°	2222.0	29.0
70°-80°	1349.9	17.6
80°-90°	197.0	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°	7675.0	100.0
0°-180°	7675.0	100.0

**Coefficient of Utilization**



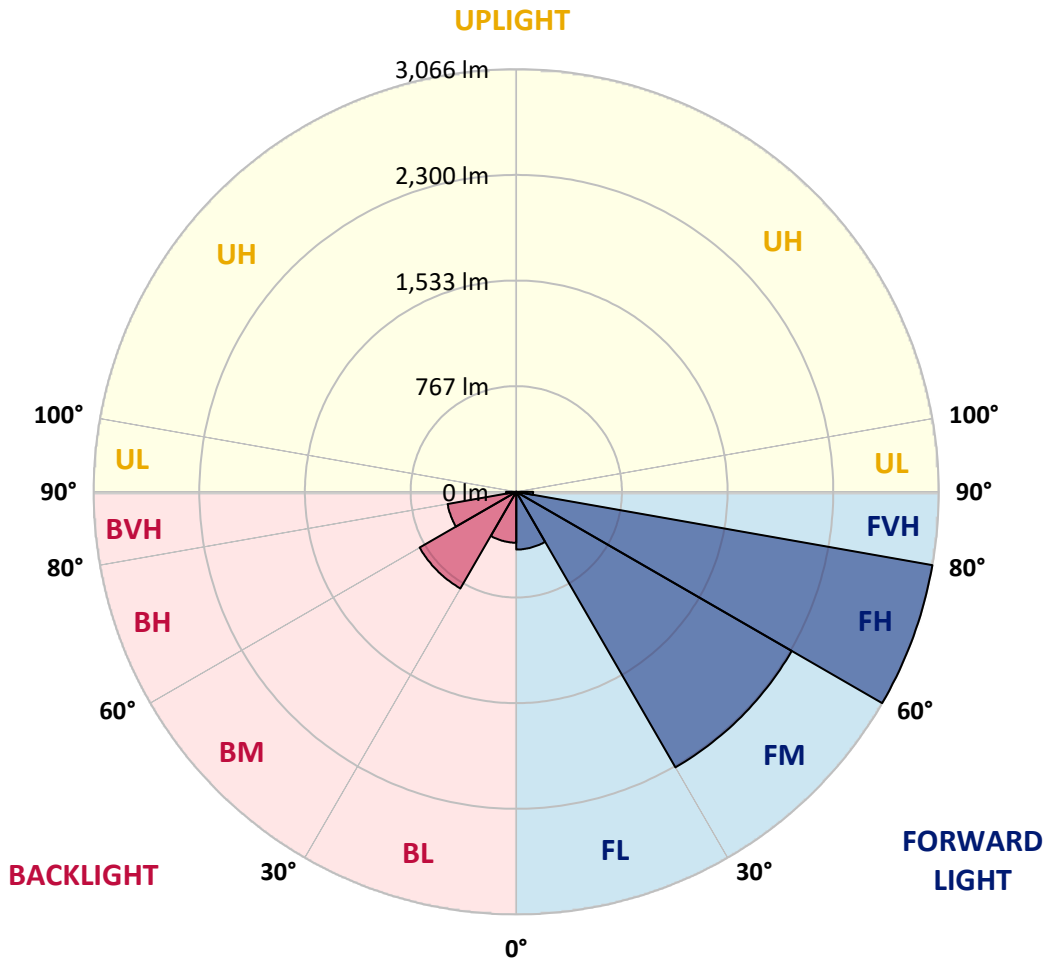
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.8	5.5			
FM (30°-60°)	2308.3	30.1			
FH (60°-80°)	3066.1	39.9			G2/5000
FVH (80°-90°)	122.7	1.6			G2/225
BL (0°-30°)	369.3	4.8	B1/500		
BM (30°-60°)	809.8	10.6	B1/1000		
BH (60°-80°)	505.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	74.3	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	821.1	821.6	822.6	820.0	812.7	810.6	809.8	802.2	797.2	789.8	783.5
5°	886.7	887.3	885.7	878.3	862.0	850.0	848.9	831.6	815.8	799.0	786.4
7.5°	955.3	956.1	951.1	937.2	914.3	893.3	892.0	868.3	844.4	819.0	800.1
10°	1016.0	1012.8	1004.7	985.2	958.2	932.4	931.4	906.7	879.1	848.4	823.2
12.5°	1056.4	1053.8	1043.3	1019.6	990.0	966.3	964.2	941.4	914.6	881.0	850.7
15°	1078.7	1080.6	1066.4	1039.6	1010.7	990.7	988.9	972.6	948.7	914.8	880.2
17.5°	1081.6	1083.2	1069.5	1043.0	1019.4	1005.7	1004.9	994.2	976.8	944.3	908.0
20°	1064.8	1065.9	1054.6	1032.8	1017.3	1013.1	1012.8	1008.1	995.2	966.3	931.1
22.5°	1040.4	1041.2	1033.0	1017.3	1012.0	1018.6	1020.4	1018.6	1009.4	982.3	949.2
25°	1034.3	1033.8	1025.4	1009.4	1013.9	1027.8	1030.1	1030.9	1024.6	1001.0	972.4
27.5°	1063.5	1061.7	1045.6	1019.9	1022.8	1039.6	1042.8	1050.4	1046.4	1025.7	998.6
30°	1147.8	1144.7	1111.8	1059.8	1045.6	1054.3	1058.2	1070.3	1071.1	1053.8	1033.6
32.5°	1290.2	1286.2	1227.4	1134.4	1084.3	1069.3	1073.0	1091.1	1100.8	1087.4	1065.6
35°	1470.1	1465.6	1388.4	1261.3	1148.9	1097.9	1100.5	1115.0	1134.4	1115.5	1086.6
37.5°	1657.6	1646.9	1572.5	1410.5	1251.6	1159.1	1159.1	1160.9	1170.1	1130.7	1111.3
40°	1844.1	1833.4	1766.1	1585.9	1384.5	1255.5	1249.5	1208.8	1201.4	1167.5	1160.9
42.5°	2017.5	2014.3	1974.7	1784.2	1540.5	1350.3	1341.9	1272.8	1274.4	1253.4	1253.7
45°	2201.9	2201.9	2169.6	1984.4	1722.2	1502.7	1494.3	1392.6	1408.4	1398.7	1422.0
47.5°	2352.4	2357.1	2352.6	2192.9	1933.7	1696.2	1681.0	1558.6	1602.7	1636.1	1704.1
50°	2506.0	2513.4	2514.2	2421.7	2189.3	1926.3	1909.0	1779.0	1877.5	1973.1	2106.8
52.5°	2729.0	2745.6	2679.6	2650.0	2502.3	2199.5	2182.4	2062.4	2226.8	2361.0	2591.4
55°	2935.7	2921.3	2874.3	2892.7	2837.5	2510.5	2497.6	2392.3	2616.1	2790.5	3089.6
57.5°	3047.6	3046.6	3093.8	3172.6	3198.9	2894.0	2883.2	2780.8	3055.0	3186.0	3557.4
60°	3178.9	3180.8	3297.9	3476.8	3585.0	3371.5	3366.7	3289.0	3481.3	3555.3	3924.4
62.5°	3197.3	3230.4	3432.1	3740.0	3946.4	3929.4	3939.9	3746.8	3862.6	3850.0	4198.3
65°	2985.9	3029.5	3394.6	3819.6	4305.7	4539.5	4549.2	4207.3	4163.4	4101.9	4296.3
67.5°	2552.5	2617.1	3013.7	3646.5	4424.2	4990.5	5004.2	4564.2	4412.9	4187.3	4060.4
70°	1857.5	1929.2	2328.5	3114.3	4213.0	5134.7	5150.2	4722.1	4422.4	3944.3	3466.3
72.5°	1122.1	1178.3	1507.4	2292.7	3555.9	4872.0	4899.6	4521.9	4037.6	3341.0	2559.6
75°	492.7	529.5	728.9	1321.2	2545.7	4031.0	4065.4	3870.5	3280.6	2428.0	1512.9
77.5°	209.9	220.4	298.9	573.9	1439.1	2754.5	2801.8	2828.0	2225.8	1321.2	639.3
80°	130.8	135.0	169.2	259.8	673.5	1547.1	1598.0	1663.9	1105.3	485.7	223.3
82.5°	79.6	84.3	112.4	157.1	350.6	701.3	725.7	772.2	428.9	209.9	115.6
85°	47.8	51.2	68.8	99.3	199.6	275.8	275.5	304.7	202.0	135.0	60.9
87.5°	22.9	25.5	36.8	51.5	100.6	103.5	96.9	109.8	122.7	88.5	30.7
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°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	781.4	780.4	776.9	774.3	773.8	772.2	770.9	771.7	772.7	773.0	773.0
5°	781.1	778.3	773.8	772.0	774.3	777.5	781.4	786.7	789.8	792.2	793.8
7.5°	793.8	788.2	783.2	782.2	786.9	795.3	804.3	815.3	822.9	828.2	829.2
10°	814.8	807.9	802.9	804.0	812.4	824.5	837.1	851.3	862.8	869.9	870.4
12.5°	838.9	832.4	827.6	832.1	846.0	860.7	873.9	886.2	896.7	903.8	903.8
15°	866.8	862.0	856.5	866.8	885.7	898.8	904.3	910.4	916.2	921.4	920.4
17.5°	893.6	889.1	886.2	898.3	918.0	924.0	920.4	915.9	915.9	918.8	919.3
20°	916.7	912.7	914.6	926.4	936.6	930.3	916.7	902.5	896.7	898.3	899.9
22.5°	936.9	935.1	940.6	946.1	938.7	916.7	891.5	872.3	865.2	864.7	865.2
25°	960.5	960.3	967.1	957.1	924.6	883.8	850.0	831.3	827.4	830.5	835.8
27.5°	990.0	992.8	996.3	959.8	895.7	834.2	799.8	786.9	790.9	798.5	803.5
30°	1027.5	1035.4	1028.0	953.2	854.2	777.5	744.6	741.0	751.7	762.5	767.7
32.5°	1064.0	1076.4	1058.5	936.1	800.6	717.3	691.8	690.8	703.9	714.4	721.8
35°	1093.4	1117.9	1081.4	902.2	738.6	661.9	643.2	636.2	640.9	653.2	661.6
37.5°	1131.8	1172.5	1097.1	850.5	671.4	616.2	594.4	578.1	573.9	578.9	583.1
40°	1201.9	1255.8	1104.5	778.3	605.7	570.5	548.4	524.5	508.0	495.9	496.2
42.5°	1316.4	1364.2	1099.7	690.5	545.0	525.8	500.9	473.3	446.5	419.2	417.1
45°	1502.4	1525.5	1085.6	597.5	491.7	479.1	455.7	428.1	392.4	361.4	358.5
47.5°	1800.0	1748.8	1063.5	516.4	444.7	439.4	417.9	386.1	348.3	323.3	321.2
50°	2205.8	2071.1	1052.7	451.8	403.2	404.8	387.2	353.5	317.8	299.4	297.3
52.5°	2691.2	2446.4	1073.5	401.9	369.8	375.3	362.2	330.7	300.7	286.3	284.2
55°	3194.7	2835.1	1095.8	365.6	338.3	349.1	344.6	318.6	291.6	278.2	276.3
57.5°	3625.7	3125.4	1051.2	336.2	310.2	327.0	330.9	311.0	286.8	274.7	272.6
60°	3897.1	3242.2	934.0	308.6	287.9	309.4	323.1	308.9	288.7	287.6	286.0
62.5°	4025.8	3232.0	758.3	286.8	274.0	301.8	328.8	320.7	309.7	319.1	319.9
65°	3968.0	3077.6	564.7	272.4	264.0	304.7	346.2	343.0	315.7	325.2	326.5
67.5°	3587.6	2709.1	418.2	259.8	252.9	312.8	377.7	350.4	303.9	310.7	306.5
70°	2899.7	2147.8	322.5	245.6	241.6	311.8	391.9	345.9	291.0	292.6	281.3
72.5°	1999.6	1464.6	262.4	232.5	225.4	284.2	381.9	334.9	280.3	268.2	253.2
75°	1087.4	786.1	223.0	218.8	196.7	249.5	363.5	327.0	270.5	254.5	246.1
77.5°	427.9	326.2	193.6	200.1	172.0	220.4	343.0	312.0	257.1	236.1	231.9
80°	174.7	166.5	160.5	173.1	147.9	192.8	318.3	294.4	241.1	219.1	210.7
82.5°	99.0	103.5	124.8	136.6	120.0	177.6	306.5	280.3	221.9	196.2	186.2
85°	50.7	60.7	86.9	98.0	88.3	151.0	282.4	245.3	178.1	150.2	151.0
87.5°	24.4	33.9	54.9	61.5	57.3	109.3	210.9	177.8	138.7	109.8	106.4
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)