

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: P382821

Luminaire Tested: **GAN-SA1D-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382821  
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: GAN-SA1D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY 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: 7514.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

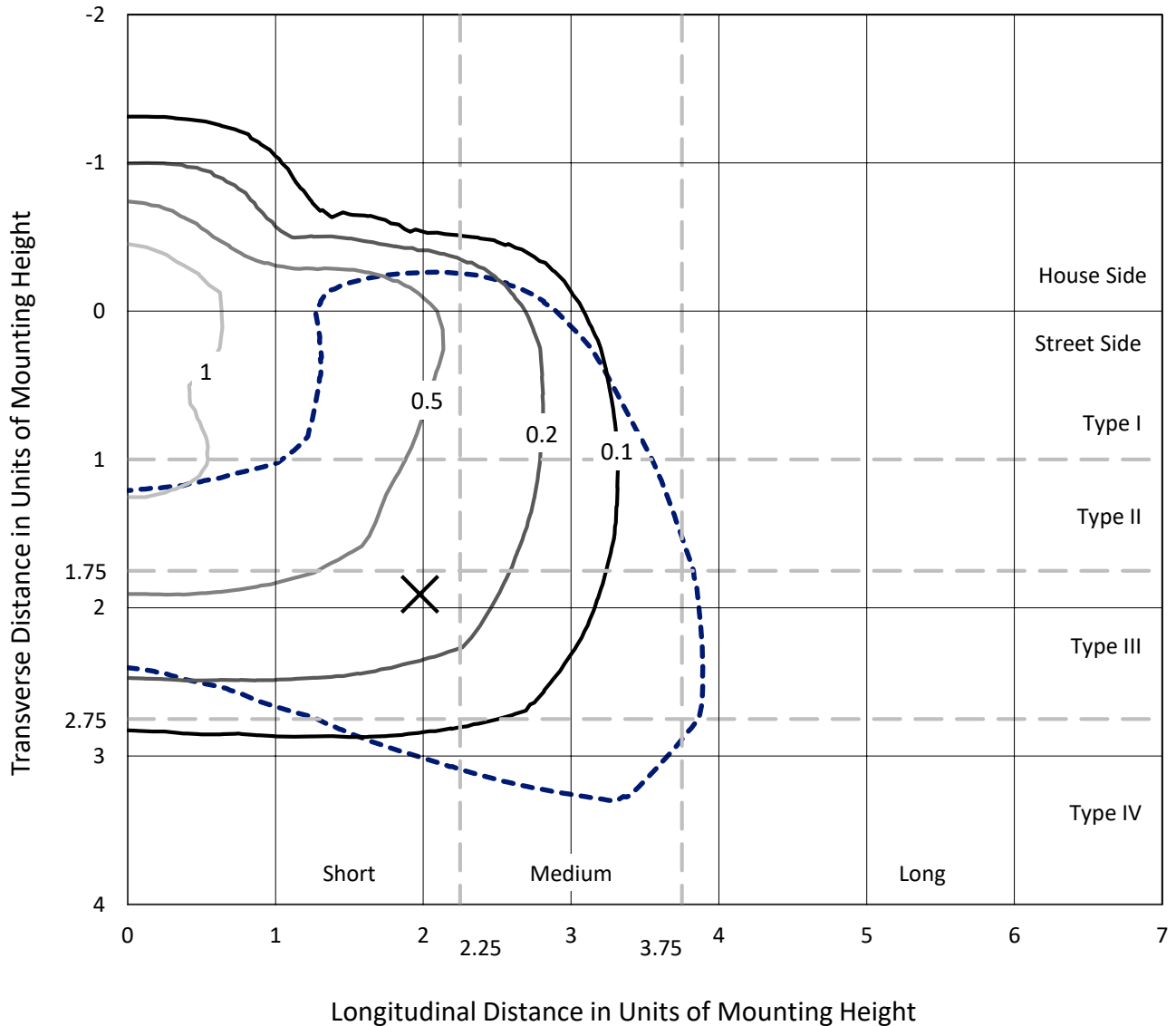
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

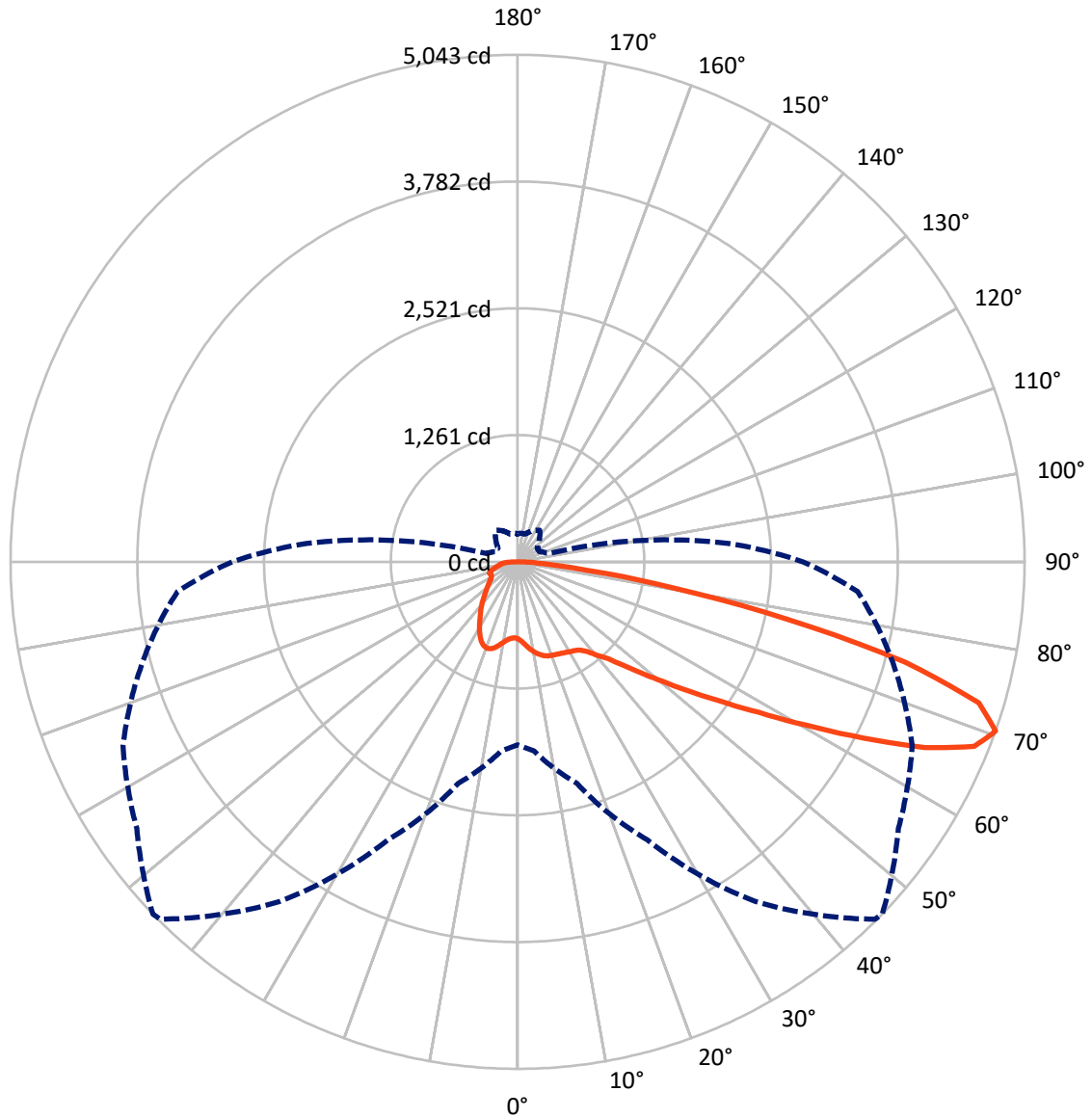
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1722.4	0.0	1722.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5792.4	0.0	5792.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7514.8	0.0	7514.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	1.0
10°-20°	260.0	3.5
20°-30°	433.6	5.8
30°-40°	615.3	8.2
40°-50°	905.0	12.0
50°-60°	1532.7	20.4
60°-70°	2175.6	29.0
70°-80°	1321.7	17.6
80°-90°	192.9	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°	7514.8	100.0
0°-180°	7514.8	100.0

**Coefficient of Utilization**

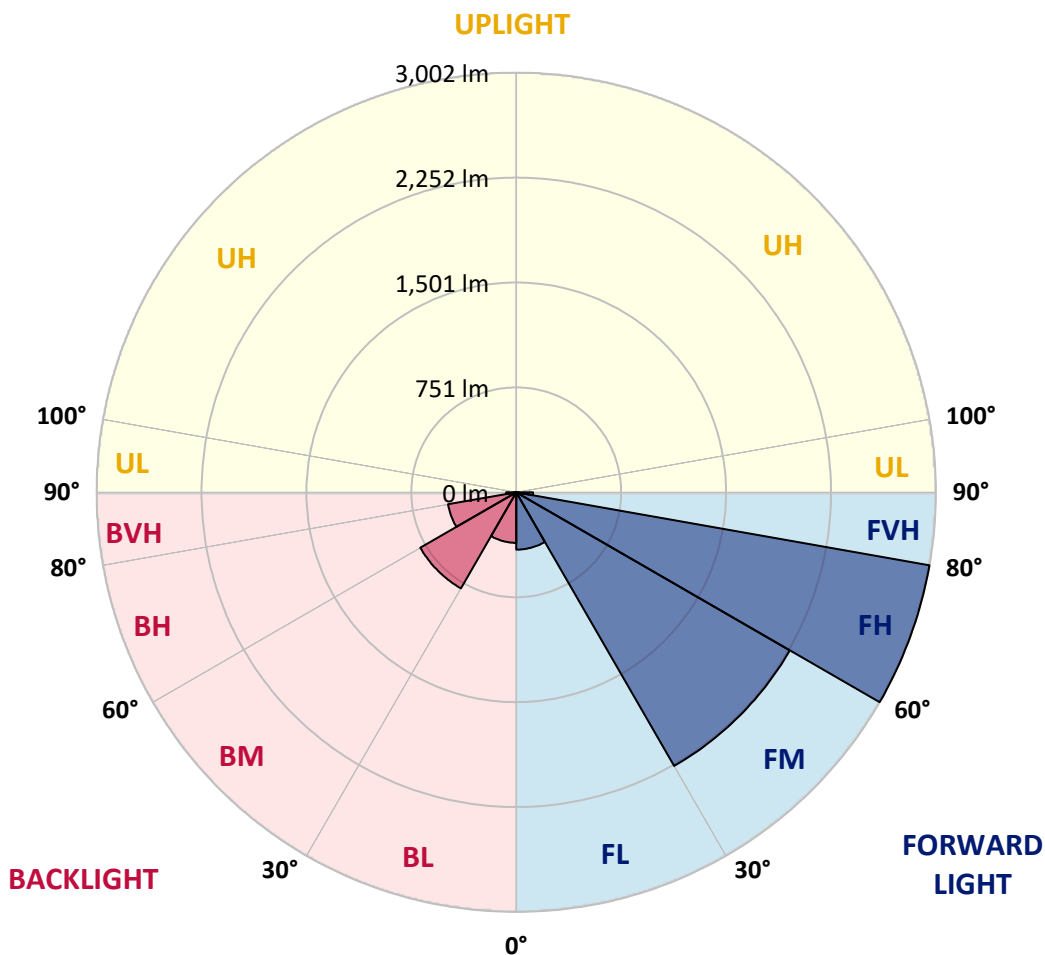


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	5.5			
FM (30°-60°)	2260.1	30.1			
FH (60°-80°)	3002.1	39.9			G2/5000
FVH (80°-90°)	120.2	1.6			G2/225
BL (0°-30°)	361.6	4.8	B1/500		
BM (30°-60°)	792.9	10.6	B1/1000		
BH (60°-80°)	495.2	6.6	B1/500		G1/500
BVH (80°-90°)	72.7	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°	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6
2.5°	803.9	804.5	805.5	802.9	795.7	793.7	792.8	785.4	780.5	773.4	767.1
5°	868.2	868.8	867.2	860.0	844.1	832.2	831.2	814.2	798.8	782.3	770.0
7.5°	935.4	936.1	931.3	917.6	895.2	874.6	873.3	850.2	826.8	801.9	783.3
10°	994.8	991.6	983.7	964.6	938.2	913.0	912.0	887.8	860.7	830.7	806.0
12.5°	1034.4	1031.8	1021.5	998.3	969.3	946.2	944.1	921.7	895.5	862.5	833.0
15°	1056.2	1058.1	1044.2	1017.9	989.6	970.0	968.3	952.3	928.9	895.8	861.8
17.5°	1059.1	1060.6	1047.2	1021.3	998.1	984.7	984.0	973.4	956.4	924.6	889.1
20°	1042.6	1043.6	1032.5	1011.2	996.0	991.9	991.6	987.1	974.4	946.2	911.7
22.5°	1018.6	1019.5	1011.5	996.0	990.9	997.3	999.1	997.3	988.3	961.8	929.4
25°	1012.8	1012.2	1004.0	988.3	992.7	1006.4	1008.7	1009.4	1003.3	980.1	952.0
27.5°	1041.3	1039.5	1023.8	998.6	1001.4	1017.9	1021.0	1028.4	1024.6	1004.3	977.8
30°	1123.8	1120.7	1088.6	1037.7	1023.8	1032.3	1036.2	1048.0	1048.7	1031.8	1011.9
32.5°	1263.3	1259.4	1201.8	1110.8	1061.6	1047.0	1050.6	1068.3	1077.8	1064.7	1043.3
35°	1439.4	1435.0	1359.4	1235.0	1124.8	1075.0	1077.5	1091.7	1110.8	1092.2	1063.9
37.5°	1623.0	1612.5	1539.7	1381.0	1225.5	1134.9	1134.9	1136.7	1145.7	1107.1	1088.1
40°	1805.6	1795.1	1729.2	1552.8	1355.6	1229.3	1223.4	1183.5	1176.4	1143.1	1136.7
42.5°	1975.3	1972.3	1933.4	1747.0	1508.4	1322.1	1313.9	1246.2	1247.8	1227.2	1227.5
45°	2155.9	2155.9	2124.3	1942.9	1686.3	1471.3	1463.1	1363.5	1379.0	1369.5	1392.4
47.5°	2303.3	2307.9	2303.5	2147.1	1893.3	1660.9	1646.0	1526.1	1569.3	1602.0	1668.6
50°	2453.7	2460.9	2461.7	2371.2	2143.6	1886.1	1869.2	1741.8	1838.3	1931.9	2062.8
52.5°	2672.1	2688.3	2623.7	2594.6	2450.1	2153.6	2136.9	2019.3	2180.3	2311.7	2537.3
55°	2874.5	2860.3	2814.3	2832.3	2778.2	2458.1	2445.5	2342.4	2561.5	2732.2	3025.1
57.5°	2984.0	2983.0	3029.3	3106.4	3132.1	2833.6	2823.1	2722.7	2991.2	3119.6	3483.1
60°	3112.6	3114.3	3229.1	3404.2	3510.2	3301.1	3296.5	3220.4	3408.6	3481.1	3842.4
62.5°	3130.6	3163.0	3360.5	3661.9	3864.1	3847.4	3857.6	3668.6	3782.0	3769.7	4110.7
65°	2923.6	2966.2	3323.8	3739.9	4215.9	4444.8	4454.3	4119.4	4076.5	4016.3	4206.6
67.5°	2499.2	2562.5	2950.9	3570.3	4331.9	4886.3	4899.7	4468.9	4320.8	4099.9	3975.7
70°	1818.8	1889.0	2279.9	3049.3	4125.1	5027.6	5042.7	4623.5	4330.0	3862.0	3393.9
72.5°	1098.7	1153.7	1475.9	2244.8	3481.7	4770.4	4797.4	4427.6	3953.3	3271.2	2506.1
75°	482.4	518.5	713.7	1293.5	2492.5	3946.9	3980.6	3789.7	3212.2	2377.3	1481.3
77.5°	205.5	215.7	292.7	561.9	1409.1	2697.0	2743.3	2769.0	2179.3	1293.5	626.0
80°	128.1	132.2	165.6	254.3	659.4	1514.8	1564.6	1629.2	1082.2	475.6	218.6
82.5°	78.0	82.5	110.1	153.8	343.4	686.6	710.6	756.1	419.9	205.5	113.2
85°	46.8	50.1	67.4	97.3	195.4	270.1	269.8	298.3	197.8	132.2	59.6
87.5°	22.4	25.0	36.1	50.4	98.5	101.4	94.9	107.5	120.1	86.6	30.1
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°	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6
2.5°	765.1	764.1	760.7	758.2	757.6	756.1	754.8	755.6	756.6	756.9	756.9
5°	764.8	762.0	757.6	755.9	758.2	761.3	765.1	770.2	773.4	775.6	777.2
7.5°	777.2	771.8	766.8	765.8	770.5	778.7	787.4	798.2	805.7	810.9	811.9
10°	797.8	791.1	786.2	787.3	795.4	807.3	819.6	833.5	844.8	851.8	852.3
12.5°	821.4	815.0	810.4	814.7	828.3	842.8	855.6	867.7	878.0	885.0	885.0
15°	848.6	844.1	838.7	848.6	867.2	880.0	885.4	891.4	897.0	902.2	901.2
17.5°	874.9	870.5	867.7	879.6	898.9	904.7	901.2	896.8	896.8	899.6	900.2
20°	897.5	893.7	895.5	907.0	917.1	911.0	897.5	883.7	878.0	879.6	881.1
22.5°	917.4	915.5	920.9	926.3	919.2	897.5	872.9	854.0	847.1	846.6	847.1
25°	940.5	940.2	946.9	937.1	905.3	865.4	832.2	814.0	810.1	813.1	818.4
27.5°	969.3	972.2	975.4	939.7	877.0	816.8	783.1	770.5	774.4	781.8	786.7
30°	1006.1	1013.8	1006.5	933.3	836.3	761.3	729.1	725.5	736.0	746.5	751.8
32.5°	1041.8	1053.9	1036.4	916.5	783.9	702.4	677.4	676.4	689.3	699.5	706.7
35°	1070.6	1094.6	1058.8	883.4	723.2	648.1	629.8	622.8	627.5	639.6	647.8
37.5°	1108.2	1148.0	1074.3	832.7	657.3	603.4	582.0	566.0	561.9	566.8	570.9
40°	1176.8	1229.5	1081.4	762.0	593.0	558.6	536.9	513.6	497.4	485.5	485.8
42.5°	1289.0	1335.7	1076.8	676.1	533.7	514.9	490.5	463.4	437.2	410.4	408.4
45°	1471.0	1493.6	1062.9	585.1	481.4	469.1	446.2	419.2	384.3	353.9	351.0
47.5°	1762.4	1712.3	1041.3	505.6	435.4	430.3	409.1	378.0	341.0	316.5	314.5
50°	2159.8	2027.8	1030.8	442.3	394.8	396.3	379.0	346.2	311.1	293.2	291.1
52.5°	2635.0	2395.3	1051.1	393.5	362.1	367.5	354.6	323.8	294.5	280.3	278.3
55°	3128.0	2775.9	1073.0	358.0	331.3	341.8	337.4	312.0	285.4	272.4	270.5
57.5°	3550.0	3060.1	1029.2	329.2	303.7	320.2	324.1	304.5	280.9	269.0	267.0
60°	3815.7	3174.5	914.5	302.2	281.9	302.9	316.4	302.5	282.6	281.6	280.0
62.5°	3941.8	3164.6	742.4	280.9	268.2	295.5	321.9	314.0	303.2	312.4	313.3
65°	3885.1	3013.3	553.0	266.7	258.5	298.3	339.0	335.9	309.1	318.4	319.7
67.5°	3512.8	2652.5	409.4	254.3	247.7	306.3	369.8	343.1	297.5	304.2	300.1
70°	2839.2	2102.9	315.8	240.4	236.6	305.3	383.7	338.7	285.0	286.5	275.5
72.5°	1957.8	1434.0	256.9	227.6	220.7	278.3	373.9	327.9	274.4	262.6	247.9
75°	1064.7	769.7	218.4	214.3	192.6	244.3	355.9	320.2	264.9	249.2	241.0
77.5°	418.9	319.4	189.6	196.0	168.4	215.7	335.9	305.5	251.8	231.2	227.1
80°	171.0	163.0	157.2	169.4	144.8	188.7	311.7	288.3	236.1	214.4	206.2
82.5°	97.0	101.4	122.1	133.8	117.6	173.8	300.1	274.4	217.3	192.1	182.3
85°	49.7	59.4	85.1	95.9	86.4	147.8	276.5	240.2	174.4	147.1	147.8
87.5°	23.9	33.2	53.8	60.2	56.1	106.9	206.5	174.1	135.8	107.5	104.1
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)