

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: P268162

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-5MQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3748.3 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 34  
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

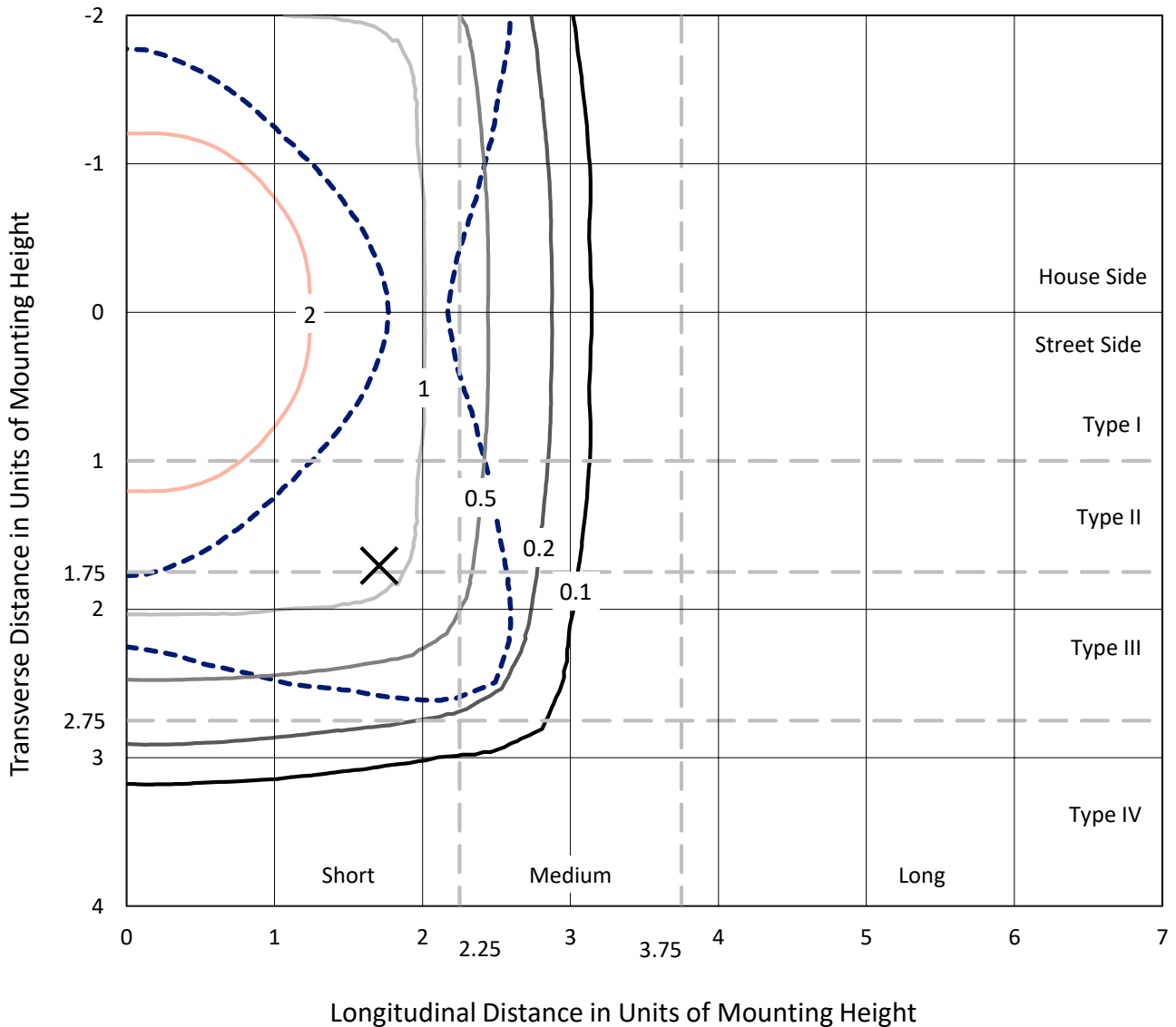


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### Iso-Footcandle Lines of Horizontal Illumination

x Max cd  
- - - 1/2 Max cd

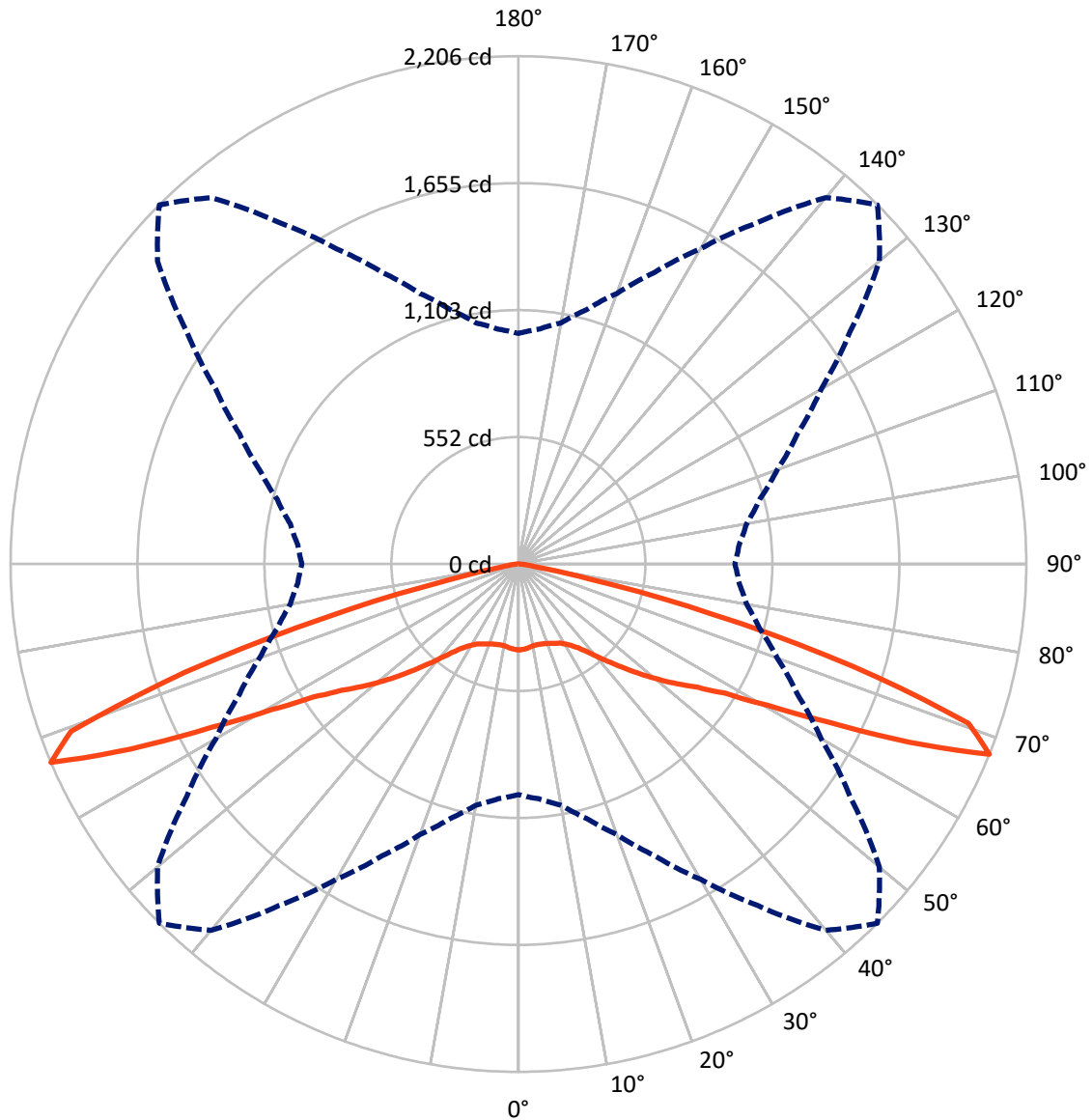


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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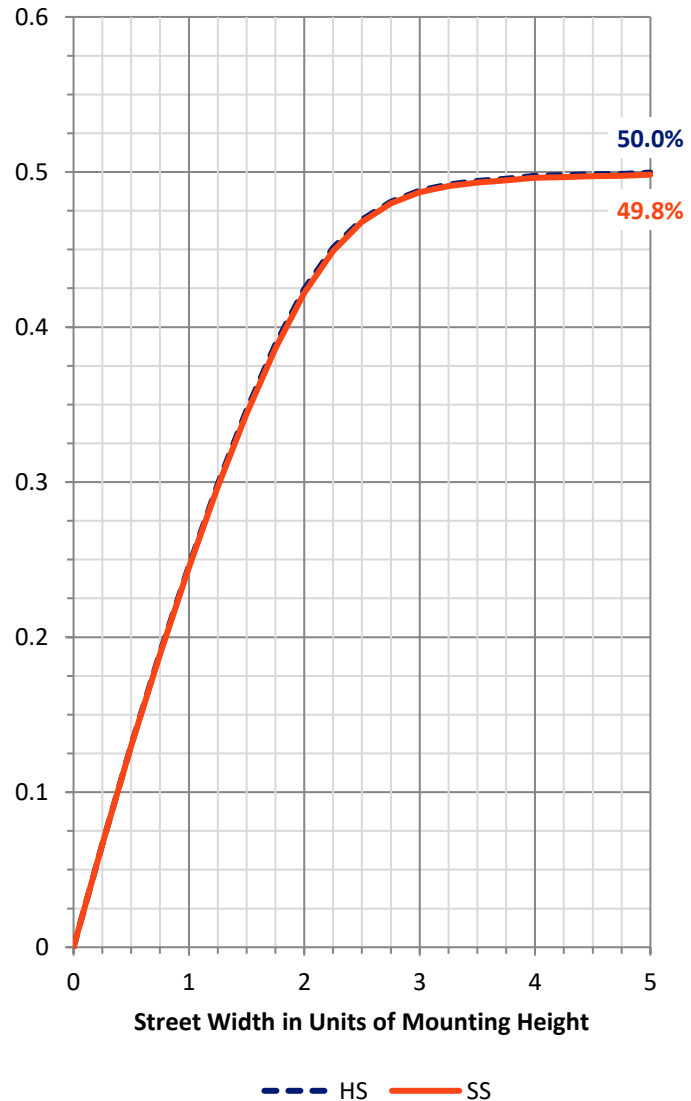
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1874.1	0.0	1874.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1874.1	0.0	1874.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3748.3	0.0	3748.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	0.9
10°-20°	101.5	2.7
20°-30°	172.5	4.6
30°-40°	281.9	7.5
40°-50°	503.3	13.4
50°-60°	848.6	22.6
60°-70°	1316.8	35.1
70°-80°	462.7	12.3
80°-90°	26.1	0.7
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°	3748.3	100.0
0°-180°	3748.3	100.0



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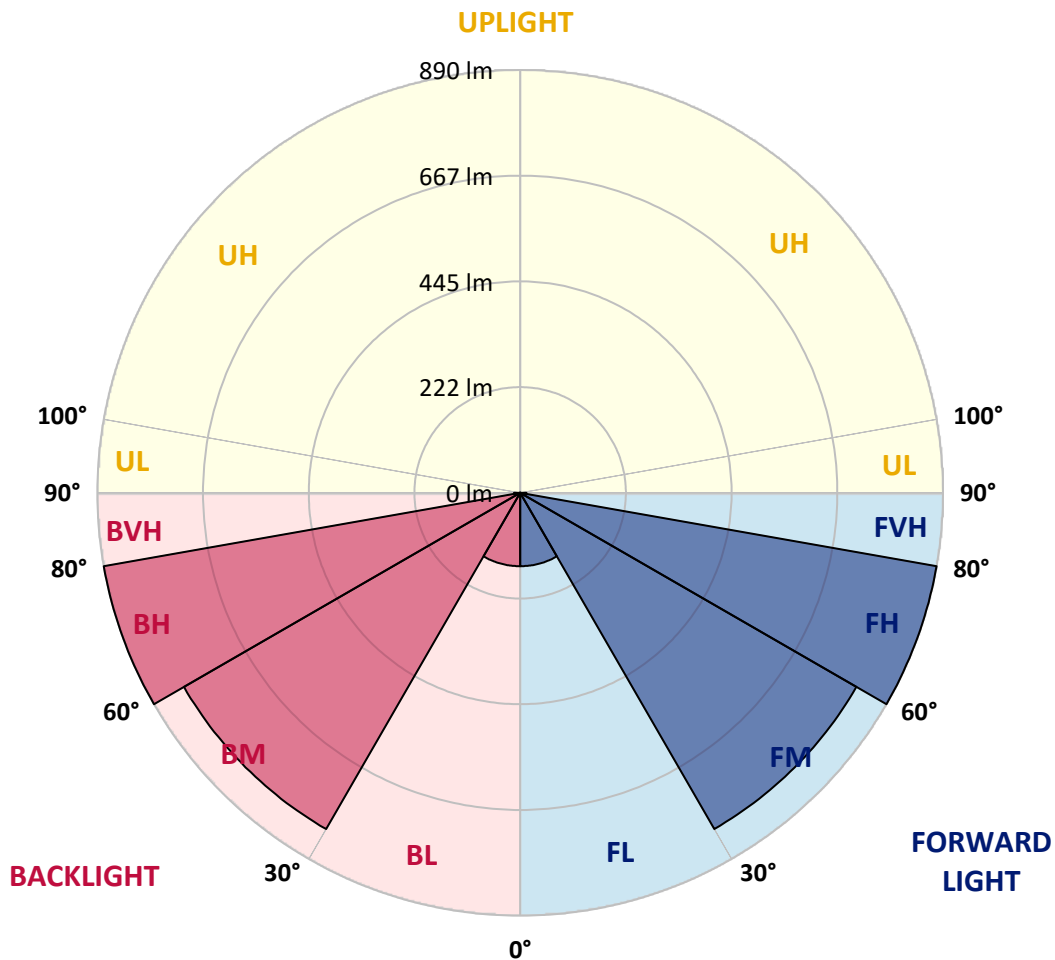
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.4	4.1			
FM (30°-60°)	816.9	21.8			
FH (60°-80°)	889.7	23.7			G1/1800
FVH (80°-90°)	13.1	0.3			G1/100
BL (0°-30°)	154.4	4.1	B1/500		
BM (30°-60°)	816.9	21.8	B1/1000		
BH (60°-80°)	889.7	23.7	B2/1000		G1/1800
BVH (80°-90°)	13.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5
2.5°	372.2	372.4	372.4	372.4	372.3	372.3	372.0	372.3	372.2	371.5	371.8
5°	369.1	369.5	369.5	369.3	369.7	369.6	369.1	369.5	369.3	368.8	369.1
7.5°	364.5	365.2	365.2	364.9	365.4	365.3	364.9	365.2	365.2	364.5	364.5
10°	359.6	360.0	360.0	359.7	360.6	360.6	360.4	360.9	361.1	360.6	360.3
12.5°	354.9	355.4	355.4	356.1	356.9	357.3	358.2	359.0	359.6	359.4	358.8
15°	352.1	352.6	353.3	354.0	355.4	356.6	358.1	359.6	360.9	361.3	360.3
17.5°	350.3	351.0	352.0	353.3	355.1	357.2	359.2	361.3	363.2	363.9	362.6
20°	349.9	350.2	351.2	353.4	356.0	359.1	361.9	364.4	367.0	367.9	367.0
22.5°	351.0	351.6	352.9	355.3	358.8	362.6	366.1	369.5	372.6	374.2	373.1
25°	355.5	356.3	357.9	360.9	364.7	368.8	372.8	376.6	379.5	381.2	380.3
27.5°	364.3	365.2	367.0	370.1	374.2	378.6	382.9	386.1	388.5	389.1	388.0
30°	377.2	379.1	381.3	384.7	389.5	393.4	397.7	400.5	403.3	403.3	402.5
32.5°	397.3	399.1	401.6	404.9	408.6	412.9	416.6	419.0	422.2	422.4	420.2
35°	427.6	428.3	430.4	432.4	435.9	439.5	442.9	444.4	446.9	447.1	445.2
37.5°	467.3	467.5	468.8	469.5	472.7	476.6	479.8	480.8	483.2	482.7	481.0
40°	513.7	514.5	515.1	516.0	519.4	523.2	526.4	526.9	529.6	529.0	526.5
42.5°	567.3	567.5	570.6	572.1	575.3	577.2	581.3	581.7	584.8	583.4	580.8
45°	627.5	630.5	633.2	636.4	639.7	641.8	645.3	644.5	646.6	644.5	642.9
47.5°	690.6	693.0	699.2	704.0	709.3	711.2	715.9	713.9	715.9	713.0	712.4
50°	760.3	764.3	769.7	775.1	780.8	784.0	790.0	787.5	790.1	787.5	785.8
52.5°	829.0	829.9	841.7	849.7	857.7	861.4	865.0	863.8	863.9	863.8	862.3
55°	894.2	896.5	908.2	919.2	933.1	943.2	949.4	948.7	947.3	945.6	943.0
57.5°	967.6	969.9	983.4	996.9	1012.7	1027.1	1039.8	1052.6	1057.7	1059.0	1053.4
60°	1066.7	1066.6	1084.6	1101.1	1123.5	1145.1	1172.6	1200.8	1233.0	1247.9	1228.2
62.5°	1167.8	1172.0	1197.8	1227.2	1273.3	1318.4	1369.1	1419.1	1470.2	1511.7	1467.7
65°	1155.8	1171.6	1210.0	1276.4	1361.7	1463.1	1572.8	1688.8	1793.6	1865.6	1784.8
67.5°	1001.7	1024.2	1063.4	1144.0	1250.7	1397.0	1580.9	1810.4	2077.2	2206.0	2046.2
70°	726.0	751.5	792.6	871.4	976.9	1116.0	1315.8	1591.3	1944.4	2074.4	1898.4
72.5°	361.3	375.1	400.5	450.6	530.5	643.2	824.6	1089.5	1401.7	1521.0	1360.3
75°	122.7	129.0	133.4	149.7	175.1	219.5	309.6	476.3	726.5	870.9	716.2
77.5°	70.8	71.1	73.9	76.8	81.1	86.0	98.1	128.7	222.7	316.4	230.4
80°	45.9	45.6	48.1	50.3	53.3	55.7	56.4	59.6	68.8	81.6	72.9
82.5°	23.7	26.7	32.1	35.0	40.6	41.5	40.2	38.9	41.2	42.8	43.7
85°	13.0	11.4	17.1	22.1	24.4	24.9	24.9	23.4	24.3	23.7	25.8
87.5°	6.0	5.5	6.6	10.9	11.6	9.8	10.3	9.2	6.6	6.4	7.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5
2.5°	371.8	372.0	372.0	372.4	372.6	373.1	373.3	373.5
5°	368.8	369.5	369.1	369.6	369.6	369.9	369.9	370.1
7.5°	364.5	365.2	365.2	365.2	364.9	365.4	365.4	365.4
10°	360.1	360.4	360.3	360.0	359.6	360.1	360.0	359.7
12.5°	358.8	357.9	357.2	356.7	356.1	356.3	355.8	355.8
15°	359.6	358.1	356.7	356.3	355.5	355.3	354.9	355.1
17.5°	361.7	360.0	358.3	357.4	356.6	356.1	355.4	355.5
20°	365.8	363.5	361.3	359.6	358.1	357.2	356.6	356.4
22.5°	371.5	368.3	365.2	362.5	360.4	359.2	358.8	358.3
25°	378.4	374.8	370.9	368.0	366.0	364.4	363.4	363.4
27.5°	386.8	383.8	380.4	377.0	375.1	373.5	372.8	372.4
30°	401.0	398.2	395.4	392.1	389.8	388.2	387.0	385.9
32.5°	419.0	416.9	414.6	412.1	409.8	407.8	405.9	405.0
35°	444.5	442.9	441.2	438.6	437.7	436.4	435.4	434.6
37.5°	479.8	479.1	479.1	476.1	475.5	474.8	473.9	474.0
40°	525.9	526.5	525.8	524.7	524.3	522.9	522.9	524.0
42.5°	580.6	581.1	583.0	581.3	583.1	581.5	580.3	581.3
45°	643.9	645.9	649.7	647.9	649.1	646.2	642.6	642.7
47.5°	715.2	716.8	718.5	717.2	717.4	712.5	707.8	706.5
50°	789.2	789.8	790.7	788.9	789.3	784.0	778.4	778.7
52.5°	862.3	865.4	868.9	864.3	863.2	857.3	849.4	846.4
55°	945.8	950.4	946.5	938.4	930.3	922.2	912.0	910.3
57.5°	1049.0	1041.0	1028.6	1013.2	1002.0	990.7	980.3	976.0
60°	1192.3	1162.4	1140.0	1117.3	1102.9	1089.0	1075.5	1073.4
62.5°	1395.0	1343.4	1298.8	1251.8	1213.3	1183.3	1159.4	1152.6
65°	1649.1	1527.2	1421.6	1322.9	1237.2	1172.6	1132.0	1114.1
67.5°	1758.4	1517.7	1336.6	1196.6	1084.6	1006.3	962.4	940.4
70°	1545.2	1258.6	1061.6	921.5	819.4	736.0	696.1	672.8
72.5°	1063.1	800.7	633.1	516.7	435.3	365.4	337.9	335.7
75°	477.3	316.2	217.8	168.0	141.4	122.9	117.1	112.8
77.5°	133.6	98.8	88.0	82.4	76.8	70.4	68.1	68.6
80°	64.9	61.4	59.0	55.3	50.3	44.9	42.6	43.6
82.5°	43.1	42.6	44.1	41.5	34.2	29.1	24.4	22.4
85°	26.2	26.5	27.0	27.2	23.0	16.2	11.0	12.3
87.5°	10.3	11.9	12.9	13.5	12.5	7.7	6.2	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)