

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: P190830

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-5NQ-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8467 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

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

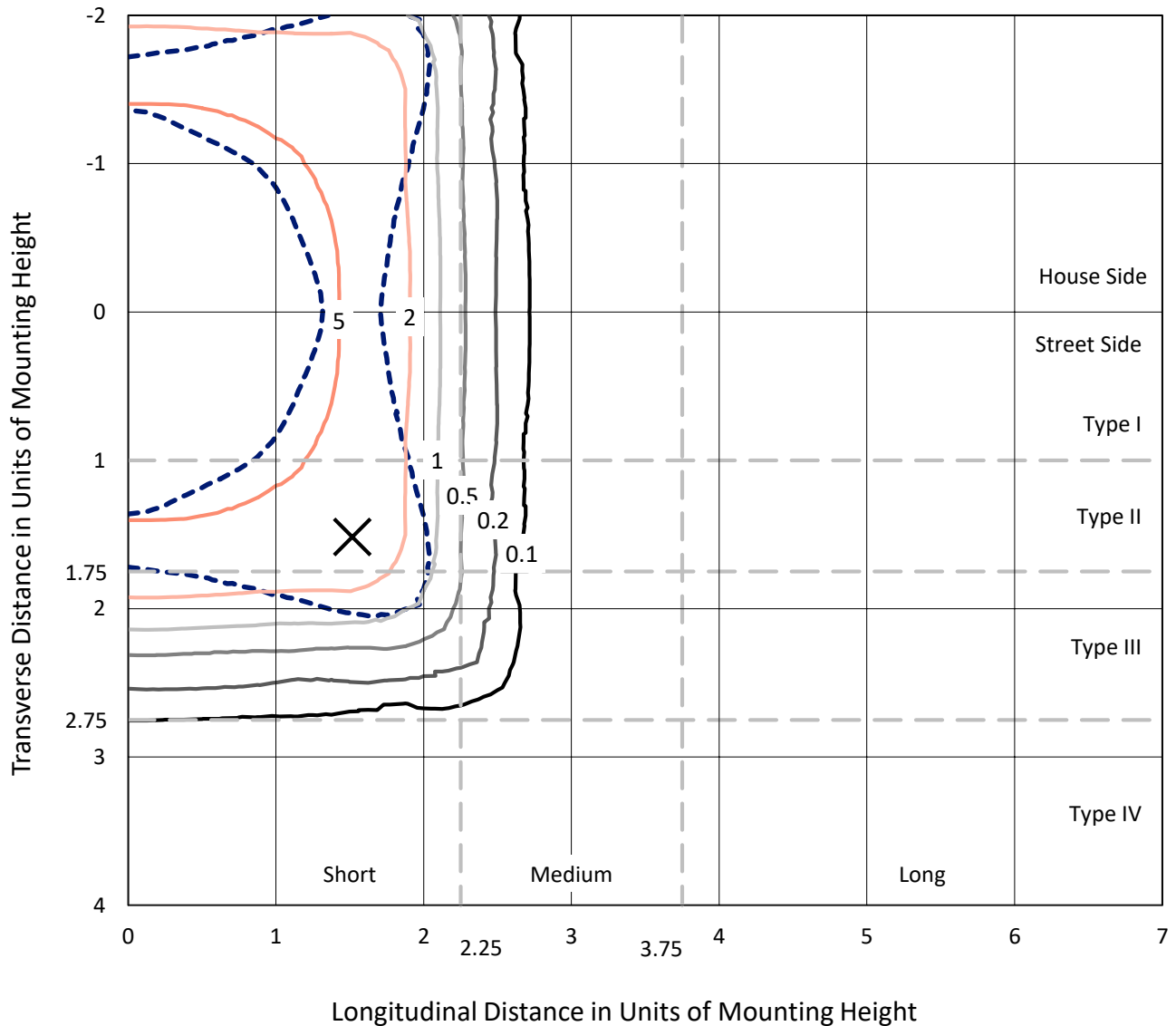


REPORT NUMBER: P190830

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

### Iso-Footcandle Lines of Horizontal Illumination

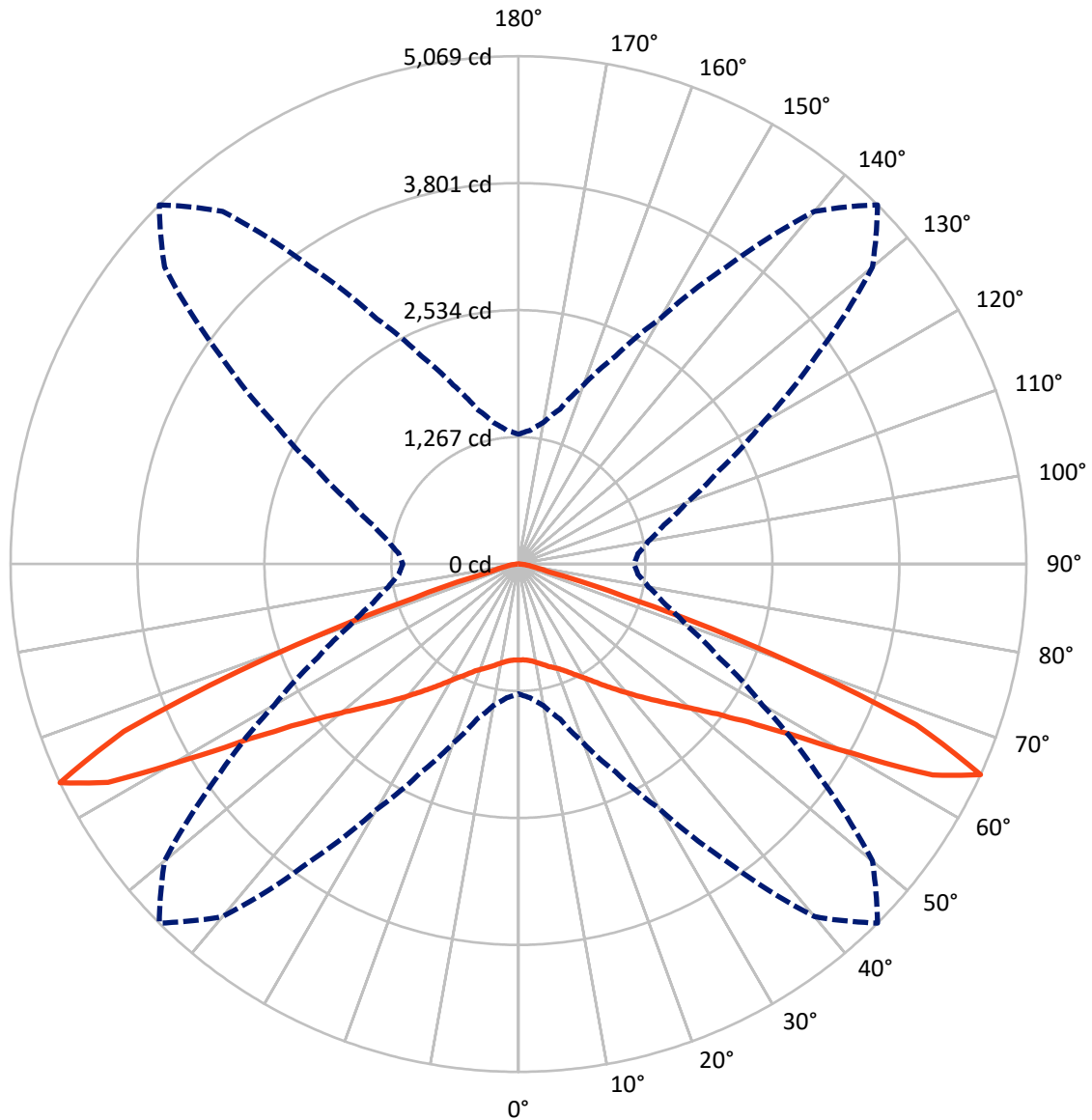
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P190830  
CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P190830

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4233.5	0.0	4233.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4233.5	0.0	4233.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8467.0	0.0	8467.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.1
10°-20°	299.5	3.5
20°-30°	560.0	6.6
30°-40°	947.1	11.2
40°-50°	1548.6	18.3
50°-60°	2462.5	29.1
60°-70°	2225.9	26.3
70°-80°	281.7	3.3
80°-90°	48.5	0.6
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°	8467.0	100.0
0°-180°	8467.0	100.0



REPORT NUMBER: P190830

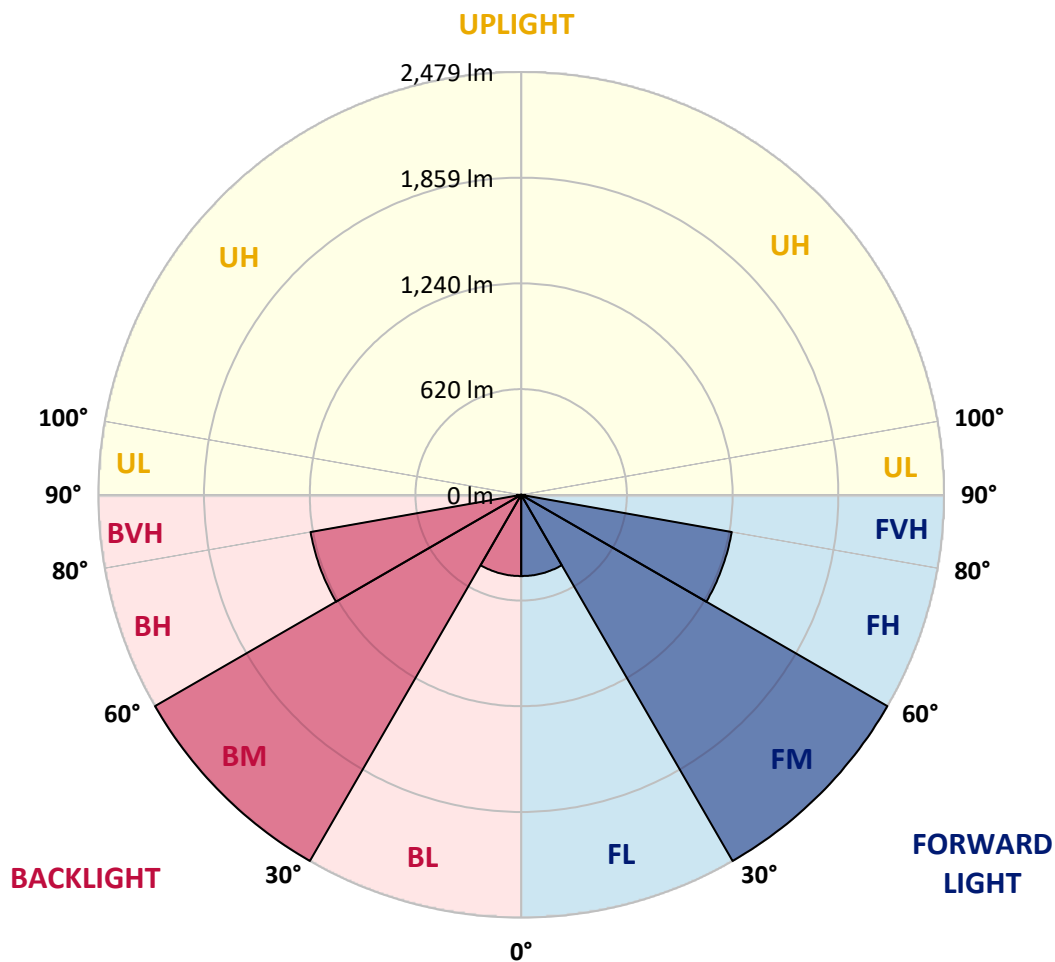
CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.4	5.6			
FM	(30°-60°)	2479.0	29.3			
FH	(60°-80°)	1253.8	14.8			G1/1800
FVH	(80°-90°)	24.2	0.3			G1/100
BL	(0°-30°)	476.4	5.6	B1/500		
BM	(30°-60°)	2479.0	29.3	B2/2500		
BH	(60°-80°)	1253.8	14.8	B3/2500		G1/1800
BVH	(80°-90°)	24.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P190830

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0
2.5°	958.8	959.6	960.4	959.6	960.4	959.2	958.4	959.6	958.4	957.3	958.0
5°	967.2	967.6	967.6	966.4	967.6	966.8	965.6	967.2	966.0	964.7	965.6
7.5°	981.0	982.6	981.4	980.3	981.0	980.3	979.5	979.9	979.5	978.2	978.7
10°	999.6	1000.9	1000.0	999.6	1000.4	1000.0	999.3	998.9	999.3	998.1	998.1
12.5°	1022.2	1021.9	1021.5	1021.9	1023.1	1023.1	1022.6	1023.1	1023.9	1024.3	1023.5
15°	1044.5	1045.3	1045.3	1045.3	1047.7	1049.6	1050.9	1051.6	1053.2	1053.6	1052.0
17.5°	1072.3	1072.3	1071.8	1072.3	1074.6	1077.8	1079.0	1080.5	1082.2	1083.3	1081.4
20°	1103.2	1104.0	1104.0	1104.8	1108.0	1111.5	1111.5	1112.3	1111.5	1112.3	1111.1
22.5°	1140.9	1143.2	1143.2	1143.7	1146.8	1151.1	1150.0	1151.1	1149.2	1150.7	1149.2
25°	1190.0	1193.6	1192.8	1192.8	1195.2	1198.0	1198.4	1200.7	1200.3	1202.3	1201.1
27.5°	1245.5	1251.1	1252.7	1252.3	1253.8	1256.6	1257.4	1260.2	1258.6	1260.2	1259.5
30°	1312.1	1314.5	1317.7	1318.9	1320.8	1323.7	1323.7	1324.0	1322.1	1324.4	1325.6
32.5°	1381.2	1385.5	1388.7	1395.8	1399.4	1401.3	1400.9	1401.7	1399.8	1403.0	1405.3
35°	1472.3	1475.5	1480.7	1486.2	1491.0	1490.6	1489.4	1489.8	1489.8	1492.6	1494.9
37.5°	1582.2	1583.0	1589.8	1597.6	1600.0	1597.6	1590.5	1588.9	1585.4	1588.9	1592.9
40°	1698.4	1701.2	1714.7	1719.8	1721.0	1716.6	1706.3	1700.3	1692.5	1696.8	1702.4
42.5°	1820.1	1825.7	1837.9	1847.0	1851.0	1848.3	1834.0	1824.8	1814.6	1817.0	1822.5
45°	1955.0	1961.7	1979.1	1987.9	1995.4	1991.1	1977.2	1963.2	1947.0	1948.2	1956.9
47.5°	2105.6	2112.4	2135.0	2149.6	2153.6	2152.8	2137.4	2118.3	2096.1	2095.3	2102.9
50°	2274.5	2281.3	2309.4	2332.0	2343.6	2342.4	2324.1	2297.1	2270.2	2270.5	2280.2
52.5°	2439.5	2447.8	2477.2	2516.0	2538.7	2554.9	2543.8	2518.4	2485.6	2486.3	2495.1
55°	2594.2	2608.0	2641.8	2694.5	2736.5	2782.1	2795.2	2794.4	2774.5	2780.2	2788.9
57.5°	2669.1	2689.7	2741.7	2825.0	2910.6	3003.4	3081.9	3140.6	3165.6	3203.3	3194.6
60°	2527.2	2560.0	2636.6	2759.1	2928.4	3121.9	3329.4	3531.9	3704.9	3835.3	3760.4
62.5°	2069.1	2112.0	2204.8	2361.8	2617.9	2927.7	3324.6	3803.6	4325.4	4640.3	4415.5
65°	1294.7	1339.1	1433.5	1601.6	1901.5	2286.5	2825.0	3618.8	4594.0	5068.6	4611.0
67.5°	504.8	529.0	580.1	687.6	912.9	1255.5	1795.9	2696.9	3863.1	4279.1	3791.4
70°	253.0	255.3	264.8	284.7	333.1	432.6	658.3	1250.3	2215.5	2675.8	2135.7
72.5°	182.8	183.2	187.9	196.7	212.2	234.4	277.2	382.7	720.5	1101.2	675.4
75°	139.9	141.6	144.3	149.1	157.4	168.5	184.0	220.4	273.2	316.8	266.5
77.5°	107.8	111.0	113.0	117.3	122.5	130.0	134.4	148.3	172.5	181.6	178.8
80°	82.0	84.9	89.2	92.8	96.4	99.9	98.3	104.6	117.3	124.9	120.9
82.5°	52.4	55.5	68.2	71.4	72.9	75.4	72.5	72.9	78.6	83.3	78.6
85°	33.7	35.7	43.3	47.2	47.6	49.2	48.0	45.2	45.2	41.2	46.4
87.5°	15.4	15.9	19.4	23.0	23.8	21.4	21.0	20.3	16.3	15.4	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190830

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0
2.5°	957.7	958.4	958.8	960.0	960.4	960.4	960.9	961.6
5°	965.2	966.4	966.8	968.3	968.7	968.3	969.1	969.6
7.5°	978.7	980.6	981.4	983.1	981.8	983.5	983.8	983.8
10°	998.5	1000.4	1000.9	1002.5	1001.7	1002.5	1002.5	1001.7
12.5°	1024.7	1025.1	1023.9	1025.1	1023.5	1024.3	1023.1	1022.2
15°	1053.6	1052.4	1049.6	1049.6	1047.3	1047.7	1047.3	1046.9
17.5°	1081.8	1079.4	1077.4	1076.7	1074.6	1074.2	1073.1	1073.1
20°	1112.7	1111.5	1110.3	1108.8	1106.7	1104.8	1104.4	1105.2
22.5°	1150.0	1149.6	1149.6	1148.8	1146.0	1144.1	1142.8	1142.8
25°	1199.9	1196.3	1196.3	1195.9	1194.8	1193.6	1191.2	1192.4
27.5°	1256.3	1254.2	1255.9	1255.5	1254.2	1254.2	1252.7	1252.7
30°	1325.6	1324.8	1327.2	1325.2	1321.2	1320.8	1319.3	1317.4
32.5°	1405.7	1404.9	1408.5	1406.1	1399.8	1396.2	1393.1	1391.4
35°	1494.9	1495.3	1499.7	1498.1	1491.0	1488.6	1483.1	1482.3
37.5°	1592.5	1598.9	1606.3	1608.0	1602.0	1600.4	1594.5	1591.3
40°	1707.1	1715.4	1726.9	1729.7	1723.4	1722.1	1713.9	1709.5
42.5°	1829.2	1843.6	1857.8	1860.1	1853.8	1847.4	1839.6	1836.4
45°	1965.6	1982.7	2001.3	2006.1	1996.6	1989.0	1978.7	1978.7
47.5°	2118.7	2140.1	2161.2	2174.2	2165.5	2157.6	2145.3	2137.4
50°	2299.5	2328.8	2356.3	2369.8	2355.9	2340.8	2319.3	2312.2
52.5°	2526.4	2558.1	2581.8	2574.8	2553.3	2532.3	2508.9	2499.4
55°	2815.9	2826.5	2826.5	2799.6	2756.8	2721.5	2684.5	2672.3
57.5°	3177.9	3136.7	3073.1	2992.6	2891.6	2803.5	2744.1	2715.9
60°	3603.3	3405.1	3181.1	2960.9	2780.2	2631.0	2542.6	2502.1
62.5°	3886.9	3368.2	2919.3	2566.0	2305.8	2126.2	2004.2	1956.5
65°	3632.7	2809.1	2207.9	1785.3	1501.7	1318.9	1198.0	1153.6
67.5°	2660.8	1760.3	1175.8	842.6	617.5	492.6	442.9	422.3
70°	1194.4	619.8	379.9	296.7	255.7	234.8	225.7	222.5
72.5°	360.1	260.5	219.7	198.2	182.0	171.7	164.2	163.4
75°	217.3	180.9	160.6	147.9	137.6	129.3	125.3	124.1
77.5°	151.9	132.9	123.4	114.2	106.3	99.9	96.4	93.6
80°	106.7	97.6	93.2	88.1	82.9	76.9	71.8	69.4
82.5°	71.4	69.4	69.4	66.2	61.9	56.3	46.0	43.6
85°	46.0	45.6	46.4	45.2	42.0	36.1	29.8	28.1
87.5°	21.4	21.8	24.1	23.8	23.0	19.0	15.0	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)