

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: P192570

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192570
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 8005.4 lumens
Efficiency: N/A
Efficacy: 121.3 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

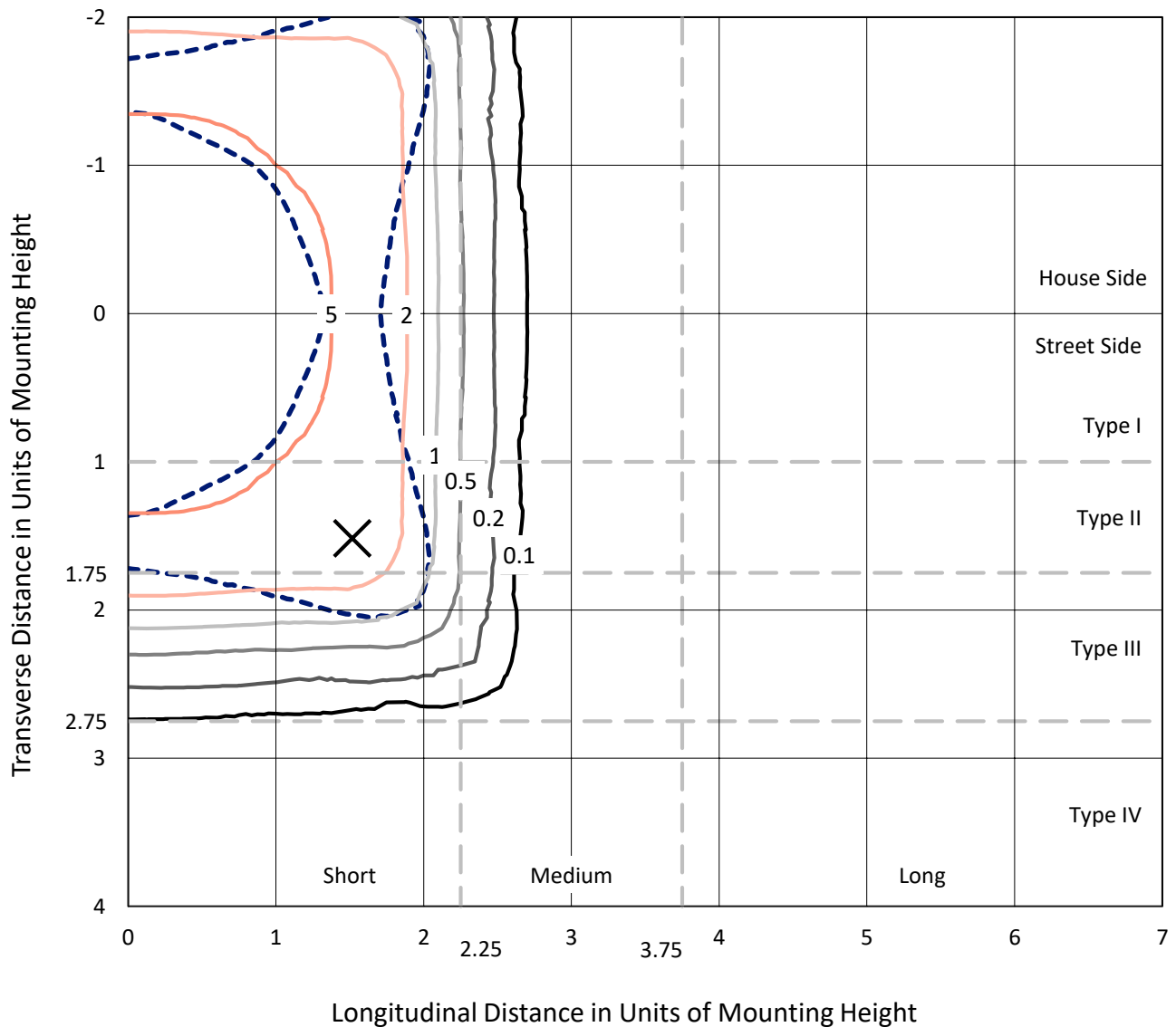


REPORT NUMBER: P192570

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

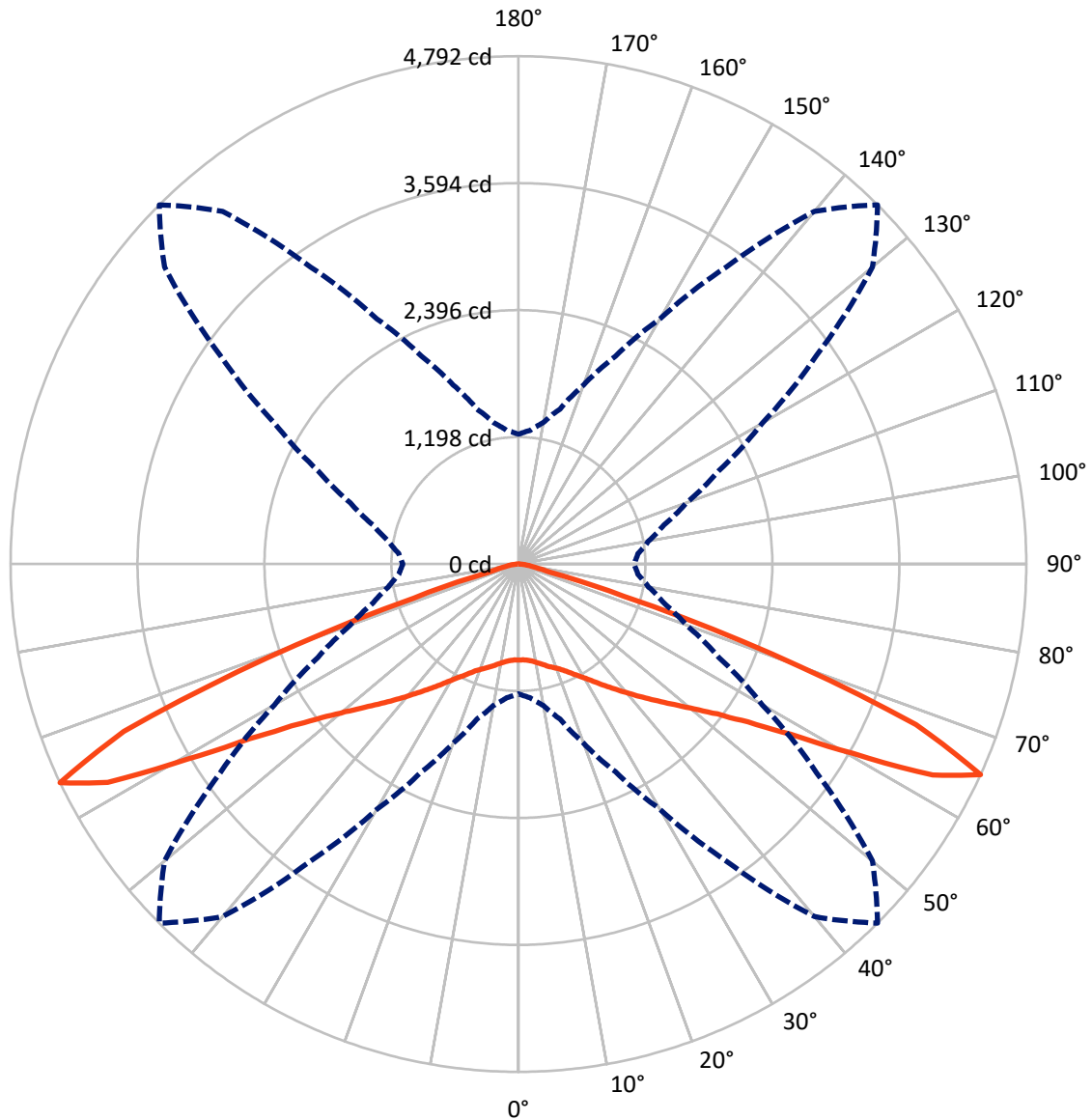


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192570

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7030-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4002.7	0.0	4002.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4002.7	0.0	4002.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8005.4	0.0	8005.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.1
10°-20°	283.2	3.5
20°-30°	529.4	6.6
30°-40°	895.4	11.2
40°-50°	1464.2	18.3
50°-60°	2328.2	29.1
60°-70°	2104.6	26.3
70°-80°	266.3	3.3
80°-90°	45.8	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°	8005.4	100.0
0°-180°	8005.4	100.0



REPORT NUMBER: P192570

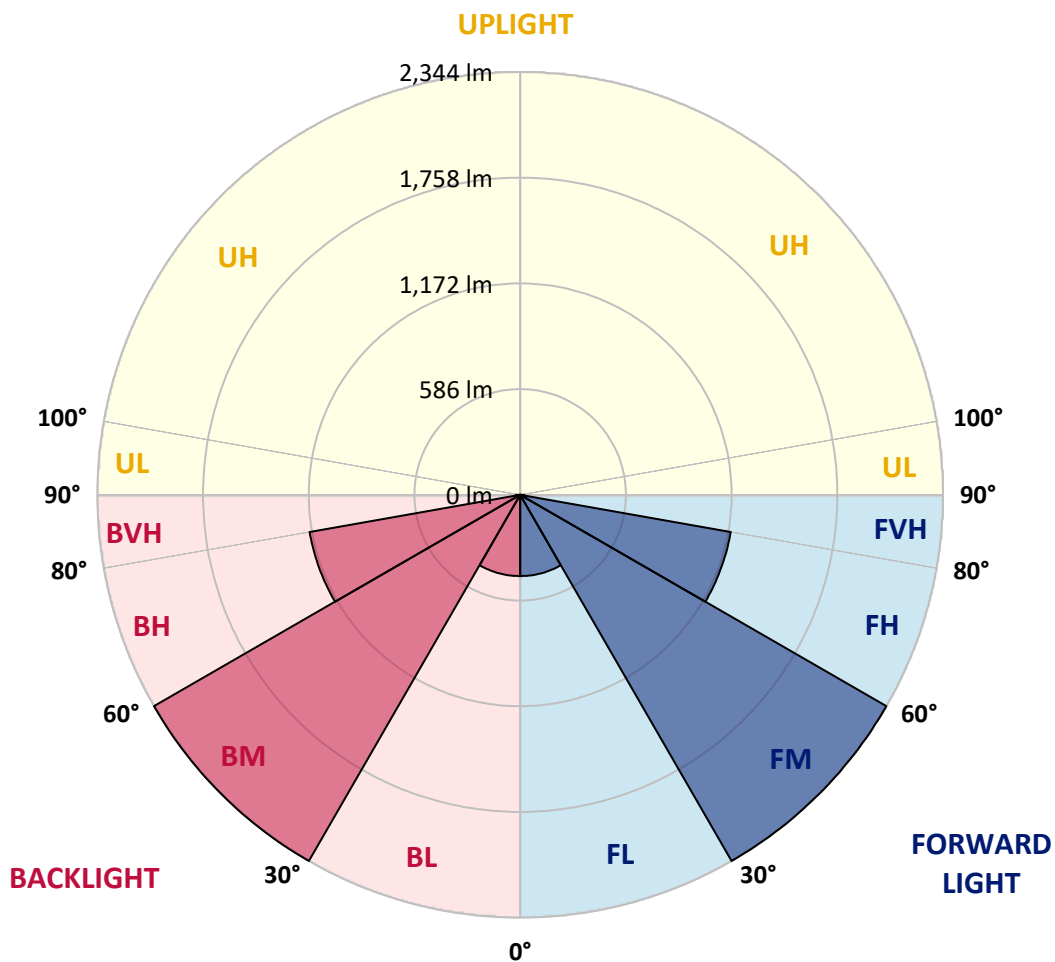
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.4	5.6			
FM	(30°-60°)	2343.9	29.3			
FH	(60°-80°)	1185.5	14.8			G1/1800
FVH	(80°-90°)	22.9	0.3			G1/100
BL	(0°-30°)	450.4	5.6	B1/500		
BM	(30°-60°)	2343.9	29.3	B2/2500		
BH	(60°-80°)	1185.5	14.8	B3/2500		G1/1800
BVH	(80°-90°)	22.9	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: P192570

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	906.6	907.3	908.1	907.3	908.1	907.0	906.2	907.3	906.2	905.1	905.9
5°	914.4	914.8	914.8	913.7	914.8	914.1	913.0	914.4	913.3	912.2	913.0
7.5°	927.6	929.0	927.9	926.8	927.6	926.8	926.1	926.4	926.1	925.0	925.3
10°	945.2	946.3	945.5	945.2	945.9	945.5	944.8	944.4	944.8	943.7	943.7
12.5°	966.5	966.2	965.9	966.2	967.3	967.3	967.0	967.3	968.0	968.5	967.7
15°	987.6	988.2	988.2	988.2	990.6	992.4	993.6	994.3	995.8	996.2	994.7
17.5°	1013.8	1013.8	1013.4	1013.8	1016.0	1019.1	1020.2	1021.7	1023.2	1024.3	1022.4
20°	1043.0	1043.8	1043.8	1044.5	1047.6	1051.0	1051.0	1051.6	1051.0	1051.6	1050.5
22.5°	1078.6	1080.9	1080.9	1081.2	1084.3	1088.4	1087.2	1088.4	1086.6	1088.0	1086.6
25°	1125.2	1128.5	1127.8	1127.8	1130.1	1132.7	1133.0	1135.3	1134.8	1136.8	1135.6
27.5°	1177.6	1182.8	1184.4	1184.1	1185.5	1188.0	1188.8	1191.5	1190.1	1191.5	1190.7
30°	1240.6	1242.9	1245.9	1246.9	1248.9	1251.4	1251.4	1251.9	1250.0	1252.2	1253.4
32.5°	1305.8	1310.0	1313.0	1319.8	1323.1	1325.0	1324.7	1325.4	1323.4	1326.5	1328.7
35°	1392.1	1395.1	1399.9	1405.2	1409.7	1409.3	1408.3	1408.6	1408.6	1411.2	1413.5
37.5°	1496.0	1496.8	1503.1	1510.6	1512.8	1510.6	1503.9	1502.4	1498.9	1502.4	1506.0
40°	1605.8	1608.4	1621.2	1626.0	1627.2	1623.0	1613.3	1607.6	1600.2	1604.3	1609.5
42.5°	1721.0	1726.2	1737.8	1746.4	1750.2	1747.5	1734.1	1725.4	1715.7	1717.9	1723.1
45°	1848.3	1854.7	1871.3	1879.5	1886.6	1882.5	1869.4	1856.2	1840.9	1842.0	1850.3
47.5°	1990.8	1997.3	2018.6	2032.4	2036.3	2035.5	2020.9	2002.8	1981.9	1981.1	1988.2
50°	2150.5	2157.0	2183.5	2205.0	2215.8	2214.6	2197.4	2172.0	2146.4	2146.8	2155.8
52.5°	2306.6	2314.4	2342.2	2378.9	2400.3	2415.6	2405.2	2381.2	2350.0	2350.8	2359.0
55°	2452.8	2465.9	2497.7	2547.6	2587.4	2630.5	2642.9	2642.1	2623.4	2628.6	2636.9
57.5°	2523.7	2543.1	2592.1	2671.0	2751.9	2839.6	2914.0	2969.4	2993.0	3028.6	3020.4
60°	2389.4	2420.5	2492.9	2608.7	2768.8	2951.7	3147.9	3339.5	3503.0	3626.4	3555.4
62.5°	1956.4	1996.8	2084.5	2233.0	2475.3	2768.1	3143.4	3596.3	4089.7	4387.5	4174.8
65°	1224.1	1266.1	1355.4	1514.4	1797.8	2161.8	2671.0	3421.6	4343.5	4792.3	4359.7
67.5°	477.3	500.2	548.5	650.1	863.0	1187.0	1698.0	2549.9	3652.5	4045.8	3584.7
70°	239.2	241.5	250.4	269.3	314.8	409.0	622.3	1182.1	2094.7	2530.0	2019.3
72.5°	172.8	173.1	177.8	186.0	200.6	221.6	262.1	361.7	681.2	1041.1	638.5
75°	132.3	133.9	136.5	141.0	148.8	159.3	173.9	208.4	258.3	299.6	252.0
77.5°	101.9	105.0	106.8	111.0	115.9	123.0	127.1	140.2	163.2	171.7	169.2
80°	77.6	80.2	84.3	87.7	91.1	94.5	93.0	99.0	111.0	118.1	114.4
82.5°	49.5	52.5	64.5	67.5	69.0	71.2	68.7	69.0	74.2	78.7	74.2
85°	31.9	33.8	40.9	44.6	45.1	46.6	45.4	42.7	42.7	39.0	43.8
87.5°	14.6	15.0	18.3	21.8	22.5	20.2	19.8	19.1	15.4	14.6	15.8
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: P192570

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	905.4	906.2	906.6	907.7	908.1	908.1	908.5	909.1
5°	912.6	913.7	914.1	915.6	915.9	915.6	916.3	916.6
7.5°	925.3	927.2	927.9	929.5	928.2	929.8	930.3	930.3
10°	944.1	945.9	946.3	947.9	947.1	947.9	947.9	947.1
12.5°	968.8	969.1	968.0	969.1	967.7	968.5	967.3	966.5
15°	996.2	995.1	992.4	992.4	990.2	990.6	990.2	989.8
17.5°	1022.7	1020.6	1018.7	1018.0	1016.0	1015.7	1014.6	1014.6
20°	1052.0	1051.0	1049.8	1048.4	1046.3	1044.5	1044.2	1044.9
22.5°	1087.2	1086.9	1086.9	1086.1	1083.6	1081.6	1080.6	1080.6
25°	1134.5	1131.2	1131.2	1130.8	1129.6	1128.5	1126.3	1127.4
27.5°	1187.7	1185.9	1187.4	1187.0	1185.9	1185.9	1184.4	1184.4
30°	1253.4	1252.6	1254.9	1252.9	1249.3	1248.9	1247.4	1245.4
32.5°	1329.1	1328.4	1331.8	1329.4	1323.4	1320.1	1317.1	1315.6
35°	1413.5	1413.9	1417.9	1416.4	1409.7	1407.5	1402.3	1401.5
37.5°	1505.7	1511.7	1518.8	1520.4	1514.7	1513.2	1507.6	1504.6
40°	1614.1	1622.0	1632.8	1635.4	1629.4	1628.3	1620.5	1616.3
42.5°	1729.6	1743.0	1756.6	1758.7	1752.7	1746.7	1739.3	1736.2
45°	1858.5	1874.7	1892.3	1896.7	1887.8	1880.6	1870.8	1870.8
47.5°	2003.3	2023.5	2043.3	2055.7	2047.5	2040.0	2028.3	2020.9
50°	2174.2	2201.9	2227.8	2240.6	2227.5	2213.1	2193.0	2186.2
52.5°	2388.6	2418.7	2441.2	2434.4	2414.2	2394.3	2372.1	2363.2
55°	2662.3	2672.5	2672.5	2647.0	2606.5	2573.0	2538.2	2526.6
57.5°	3004.6	2965.7	2905.6	2829.6	2734.0	2650.7	2594.5	2567.8
60°	3406.9	3219.5	3007.7	2799.5	2628.6	2487.7	2404.0	2365.8
62.5°	3675.1	3184.6	2760.2	2426.1	2180.2	2010.4	1894.9	1849.9
65°	3434.7	2656.0	2087.6	1687.9	1419.9	1246.9	1132.7	1090.6
67.5°	2515.7	1664.2	1111.6	796.7	583.8	465.7	418.8	399.4
70°	1129.3	585.9	359.1	280.5	241.8	221.9	213.4	210.4
72.5°	340.5	246.4	207.7	187.5	172.1	162.4	155.2	154.5
75°	205.4	171.0	151.9	139.9	130.1	122.3	118.4	117.4
77.5°	143.5	125.6	116.6	107.9	100.5	94.5	91.1	88.5
80°	100.8	92.3	88.1	83.2	78.3	72.7	67.8	65.7
82.5°	67.5	65.7	65.7	62.6	58.5	53.2	43.4	41.2
85°	43.4	43.1	43.8	42.7	39.8	34.1	28.1	26.7
87.5°	20.2	20.6	22.8	22.5	21.8	18.0	14.2	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)