

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: P268246

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268246
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 7191.3 lumens
Efficiency: N/A
Efficacy: 109.0 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

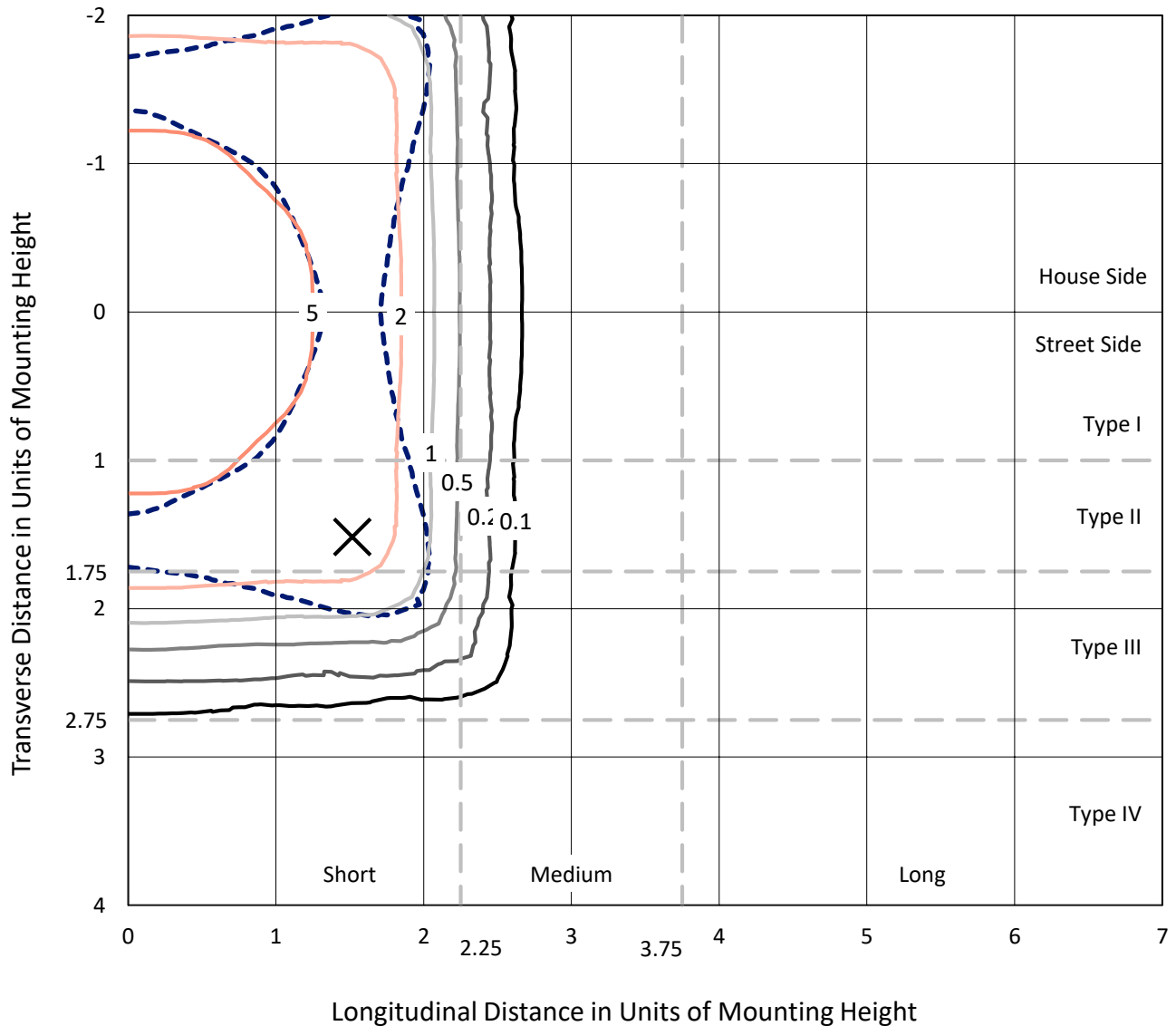


REPORT NUMBER: P268246

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

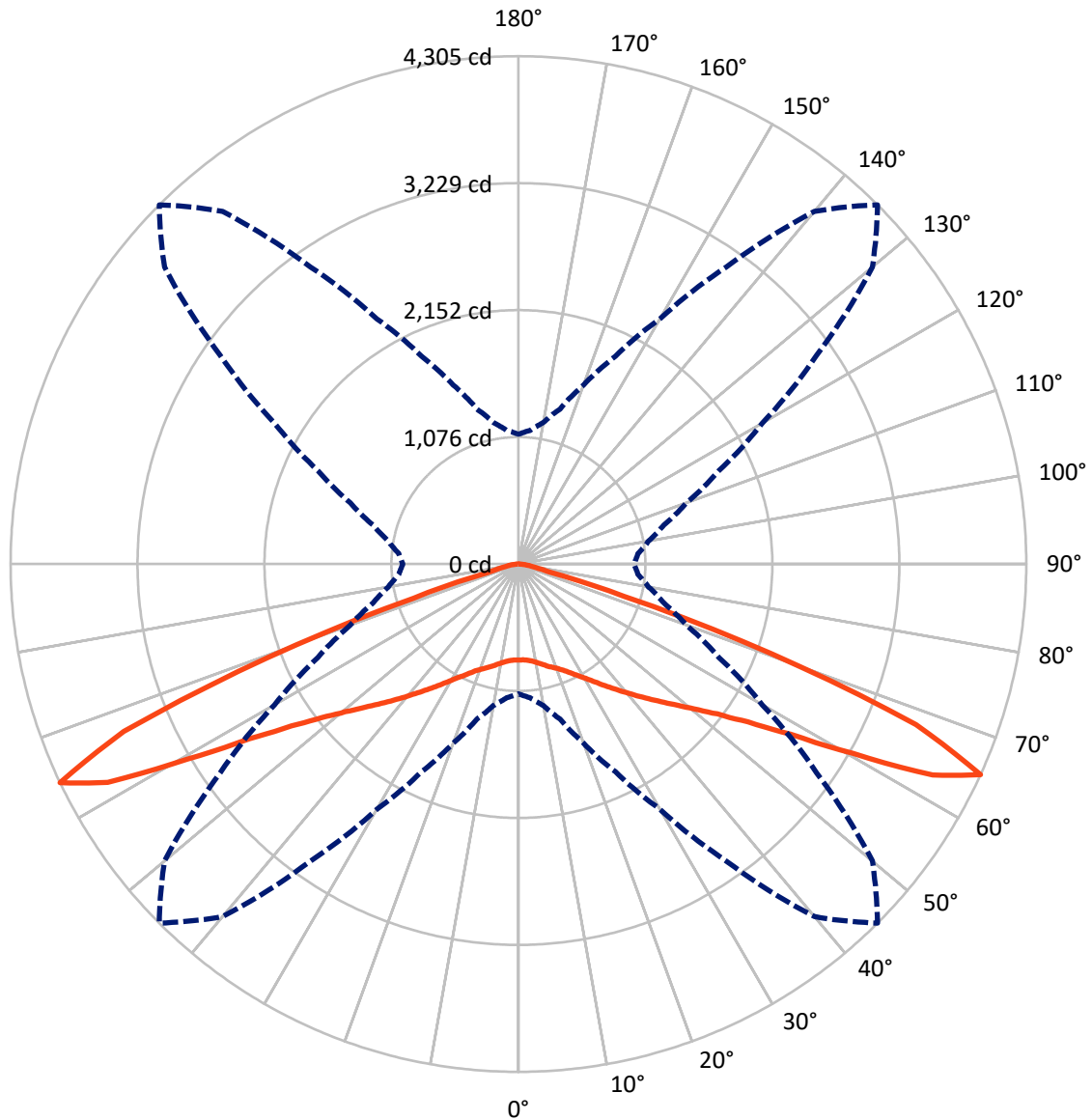


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268246

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P268246

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.7	0.0	3595.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3595.7	0.0	3595.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7191.3	0.0	7191.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.1
10°-20°	254.4	3.5
20°-30°	475.6	6.6
30°-40°	804.4	11.2
40°-50°	1315.3	18.3
50°-60°	2091.5	29.1
60°-70°	1890.5	26.3
70°-80°	239.3	3.3
80°-90°	41.2	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°	7191.3	100.0
0°-180°	7191.3	100.0



REPORT NUMBER: P268246

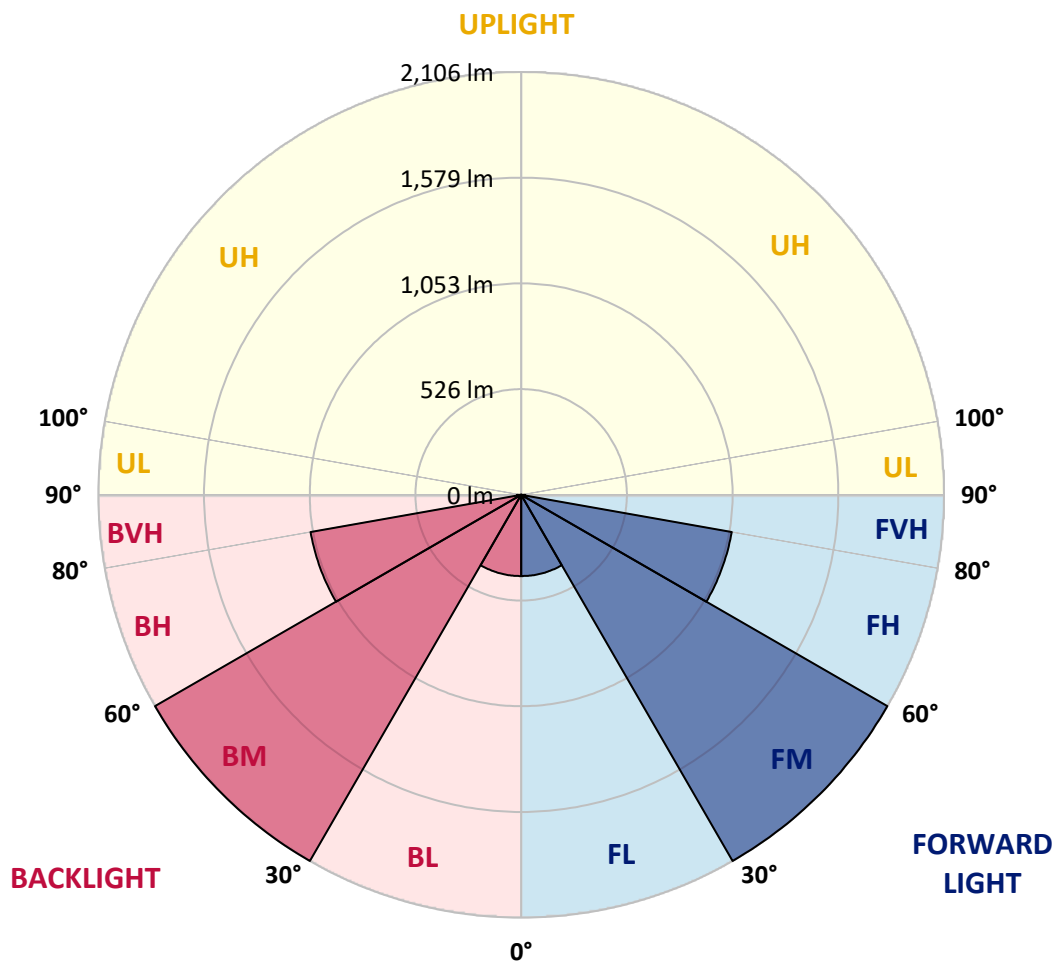
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.6	5.6			
FM	(30°-60°)	2105.5	29.3			
FH	(60°-80°)	1064.9	14.8			G1/1800
FVH	(80°-90°)	20.6	0.3			G1/100
BL	(0°-30°)	404.6	5.6	B1/500		
BM	(30°-60°)	2105.5	29.3	B2/2500		
BH	(60°-80°)	1064.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	20.6	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: P268246

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	814.4	815.0	815.8	815.0	815.8	814.8	814.0	815.0	814.0	813.1	813.8
5°	821.4	821.8	821.8	820.8	821.8	821.1	820.2	821.4	820.4	819.4	820.2
7.5°	833.3	834.5	833.5	832.5	833.3	832.5	831.9	832.2	831.9	830.9	831.2
10°	849.1	850.1	849.3	849.1	849.7	849.3	848.7	848.4	848.7	847.7	847.7
12.5°	868.2	867.9	867.7	867.9	868.9	868.9	868.7	868.9	869.6	870.0	869.3
15°	887.2	887.7	887.7	887.7	889.9	891.5	892.6	893.2	894.5	894.9	893.5
17.5°	910.7	910.7	910.3	910.7	912.7	915.5	916.5	917.8	919.1	920.1	918.4
20°	936.9	937.7	937.7	938.3	941.1	944.1	944.1	944.7	944.1	944.7	943.7
22.5°	968.9	971.0	971.0	971.2	974.0	977.7	976.6	977.7	976.1	977.4	976.1
25°	1010.8	1013.7	1013.1	1013.1	1015.2	1017.5	1017.8	1019.8	1019.4	1021.2	1020.1
27.5°	1057.8	1062.5	1064.0	1063.7	1064.9	1067.2	1067.9	1070.3	1069.1	1070.3	1069.6
30°	1114.4	1116.5	1119.2	1120.1	1121.9	1124.1	1124.1	1124.6	1122.9	1124.9	1125.9
32.5°	1173.0	1176.8	1179.5	1185.6	1188.5	1190.3	1190.0	1190.6	1188.8	1191.6	1193.6
35°	1250.5	1253.2	1257.5	1262.3	1266.3	1266.0	1265.1	1265.4	1265.4	1267.7	1269.8
37.5°	1343.9	1344.6	1350.2	1357.0	1359.0	1357.0	1351.0	1349.6	1346.5	1349.6	1352.8
40°	1442.5	1444.8	1456.3	1460.6	1461.7	1457.9	1449.2	1444.1	1437.5	1441.2	1445.8
42.5°	1546.0	1550.7	1561.1	1568.8	1572.2	1569.8	1557.8	1549.9	1541.2	1543.2	1547.9
45°	1660.3	1666.1	1681.0	1688.4	1694.7	1691.1	1679.3	1667.4	1653.7	1654.7	1662.1
47.5°	1788.3	1794.2	1813.3	1825.7	1829.2	1828.5	1815.4	1799.1	1780.4	1779.6	1786.0
50°	1931.8	1937.6	1961.4	1980.8	1990.5	1989.4	1973.9	1951.1	1928.1	1928.5	1936.6
52.5°	2072.0	2079.0	2104.0	2137.0	2156.2	2169.9	2160.6	2139.0	2111.0	2111.7	2119.1
55°	2203.4	2215.1	2243.7	2288.5	2324.3	2363.0	2374.1	2373.4	2356.6	2361.3	2368.7
57.5°	2267.1	2284.5	2328.5	2399.4	2472.0	2550.8	2617.7	2667.4	2688.6	2720.6	2713.2
60°	2146.4	2174.3	2239.4	2343.4	2487.2	2651.5	2827.8	2999.9	3146.8	3257.6	3193.8
62.5°	1757.4	1793.7	1872.5	2005.9	2223.6	2486.6	2823.7	3230.6	3673.8	3941.3	3750.2
65°	1099.6	1137.3	1217.6	1360.4	1615.0	1942.0	2399.4	3073.6	3901.8	4304.9	3916.3
67.5°	428.8	449.3	492.7	584.0	775.2	1066.3	1525.3	2290.6	3281.1	3634.4	3220.2
70°	214.9	216.9	224.9	241.9	282.8	367.4	559.0	1061.9	1881.7	2272.7	1813.9
72.5°	155.2	155.5	159.7	167.1	180.2	199.1	235.4	324.9	611.9	935.2	573.6
75°	118.8	120.3	122.6	126.7	133.7	143.1	156.2	187.2	232.0	269.1	226.4
77.5°	91.5	94.3	95.9	99.7	104.1	110.5	114.2	125.9	146.6	154.2	152.0
80°	69.7	72.0	75.7	78.8	81.8	84.9	83.5	88.9	99.7	106.1	102.8
82.5°	44.5	47.2	57.9	60.6	62.0	64.0	61.7	62.0	66.7	70.7	66.7
85°	28.7	30.4	36.7	40.1	40.5	41.9	40.8	38.4	38.4	35.0	39.3
87.5°	13.1	13.5	16.4	19.6	20.2	18.1	17.8	17.2	13.8	13.1	14.2
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: P268246

CATALOG NUMBER: GAN-AF-02-LED-U-5NQ-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	813.3	814.0	814.4	815.4	815.8	815.8	816.1	816.6
5°	819.8	820.8	821.1	822.5	822.8	822.5	823.1	823.4
7.5°	831.2	832.9	833.5	835.0	833.8	835.2	835.7	835.7
10°	848.1	849.7	850.1	851.5	850.8	851.5	851.5	850.8
12.5°	870.3	870.5	869.6	870.5	869.3	870.0	868.9	868.2
15°	894.9	893.9	891.5	891.5	889.5	889.9	889.5	889.1
17.5°	918.7	916.8	915.1	914.5	912.7	912.4	911.4	911.4
20°	945.0	944.1	943.0	941.8	939.9	938.3	938.0	938.6
22.5°	976.6	976.4	976.4	975.6	973.4	971.6	970.7	970.7
25°	1019.1	1016.2	1016.2	1015.8	1014.7	1013.7	1011.8	1012.7
27.5°	1066.9	1065.3	1066.6	1066.3	1065.3	1065.3	1064.0	1064.0
30°	1125.9	1125.2	1127.3	1125.5	1122.3	1121.9	1120.5	1118.7
32.5°	1193.9	1193.3	1196.4	1194.2	1188.8	1185.9	1183.2	1181.8
35°	1269.8	1270.1	1273.7	1272.4	1266.3	1264.4	1259.7	1259.0
37.5°	1352.6	1358.0	1364.3	1365.8	1360.7	1359.3	1354.3	1351.6
40°	1450.0	1457.1	1466.8	1469.1	1463.7	1462.7	1455.7	1451.9
42.5°	1553.7	1565.7	1578.0	1579.8	1574.5	1569.1	1562.4	1559.6
45°	1669.5	1684.1	1699.9	1703.8	1695.8	1689.4	1680.5	1680.5
47.5°	1799.6	1817.7	1835.5	1846.6	1839.3	1832.5	1822.0	1815.4
50°	1953.1	1978.0	2001.2	2012.7	2001.0	1988.0	1970.0	1963.9
52.5°	2145.7	2172.7	2192.9	2186.8	2168.7	2150.8	2130.9	2122.9
55°	2391.6	2400.7	2400.7	2377.8	2341.4	2311.3	2280.1	2269.7
57.5°	2699.0	2664.1	2610.1	2541.8	2456.0	2381.1	2330.7	2306.7
60°	3060.4	2892.1	2701.8	2514.8	2361.3	2234.7	2159.5	2125.2
62.5°	3301.4	2860.7	2479.5	2179.4	1958.5	1806.0	1702.2	1661.8
65°	3085.4	2385.9	1875.3	1516.2	1275.5	1120.1	1017.5	979.7
67.5°	2259.9	1495.0	998.6	715.7	524.4	418.3	376.2	358.8
70°	1014.5	526.3	322.6	252.0	217.2	199.3	191.7	189.0
72.5°	305.9	221.3	186.6	168.4	154.6	145.9	139.4	138.8
75°	184.5	153.6	136.5	125.7	116.9	109.9	106.4	105.5
77.5°	128.9	112.8	104.7	96.9	90.3	84.9	81.8	79.5
80°	90.5	82.9	79.1	74.7	70.3	65.3	60.9	59.0
82.5°	60.6	59.0	59.0	56.2	52.6	47.8	39.0	37.0
85°	39.0	38.7	39.3	38.4	35.8	30.6	25.2	24.0
87.5°	18.1	18.5	20.5	20.2	19.6	16.2	12.8	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)