

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: P299462

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299462
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: GAA-AF-02-LED-U-5NQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7977.2 lumens
Efficiency: N/A
Efficacy: 120.9 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

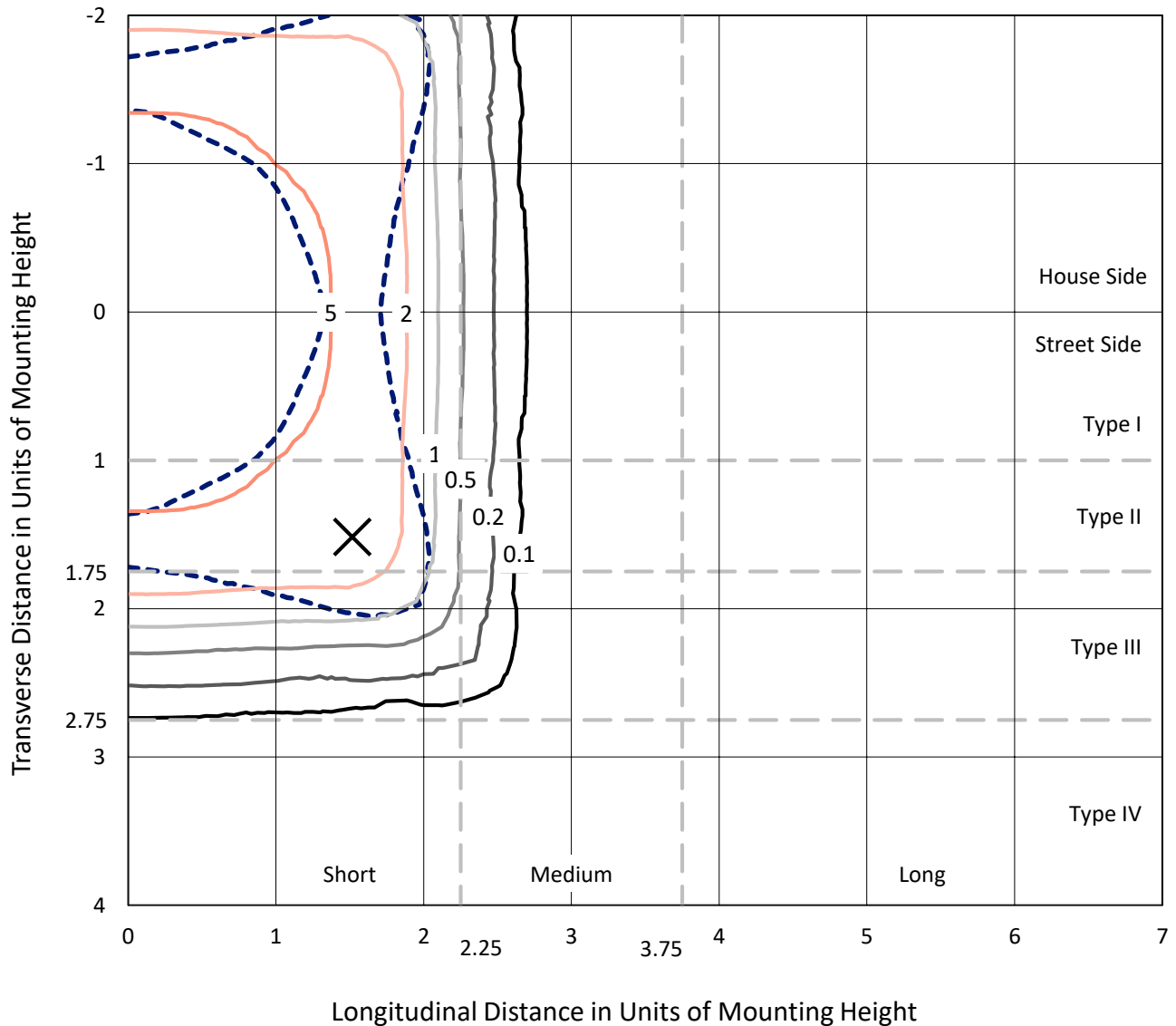


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

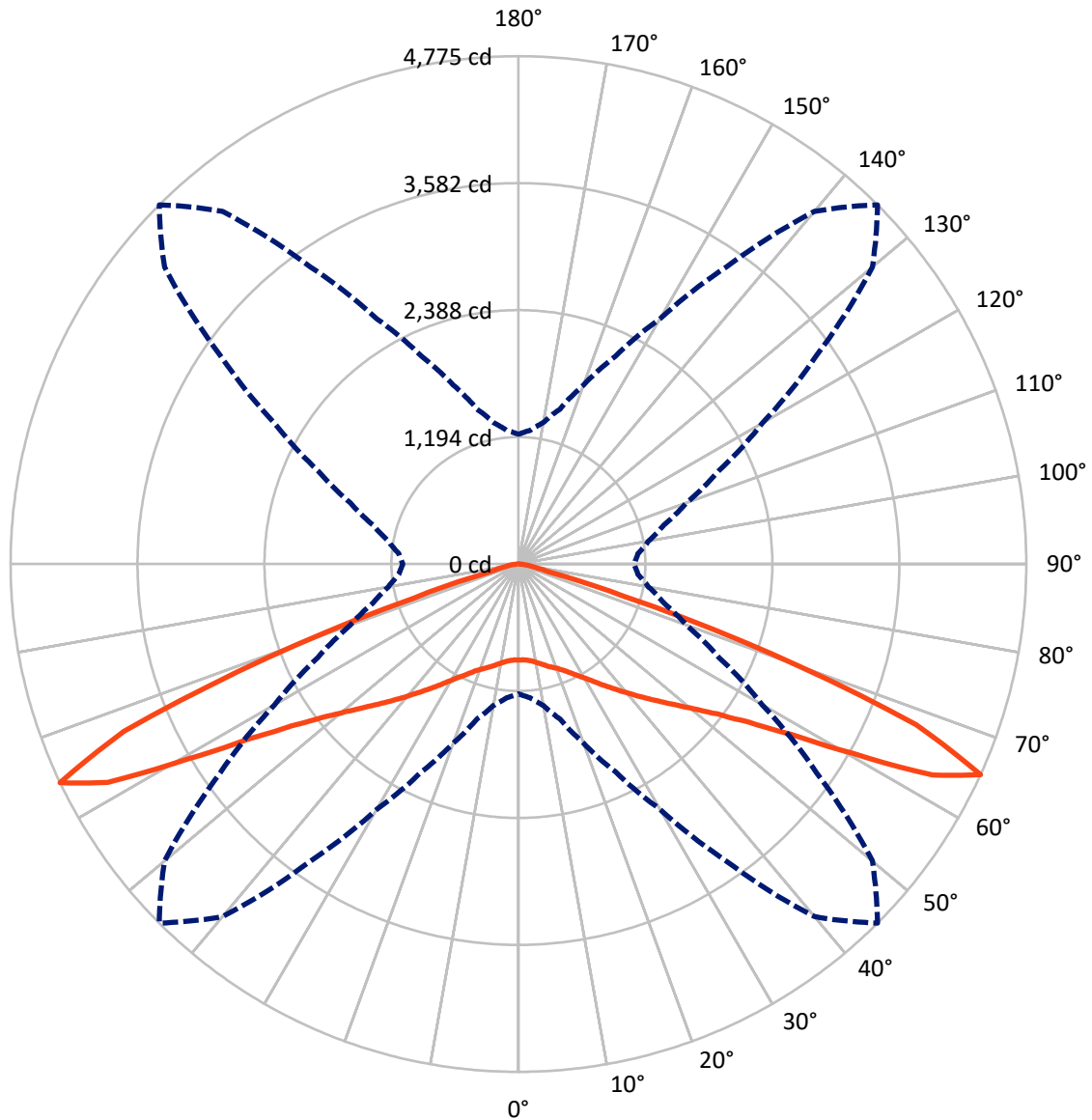


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3988.6	0.0	3988.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3988.6	0.0	3988.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7977.2	0.0	7977.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.1
10°-20°	282.2	3.5
20°-30°	527.6	6.6
30°-40°	892.3	11.2
40°-50°	1459.0	18.3
50°-60°	2320.0	29.1
60°-70°	2097.2	26.3
70°-80°	265.4	3.3
80°-90°	45.7	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°	7977.2	100.0
0°-180°	7977.2	100.0



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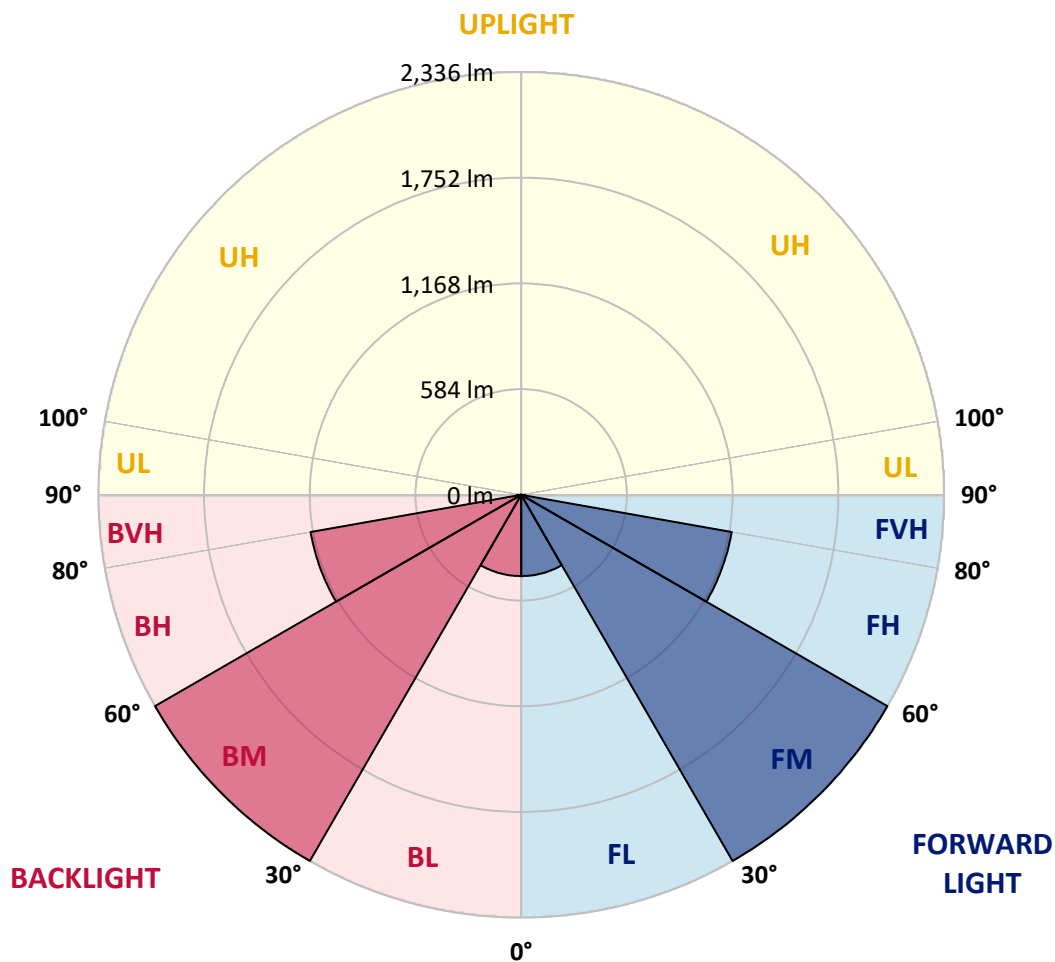
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.9	5.6			
FM	(30°-60°)	2335.7	29.3			
FH	(60°-80°)	1181.3	14.8			G1/1800
FVH	(80°-90°)	22.8	0.3			G1/100
BL	(0°-30°)	448.9	5.6	B1/500		
BM	(30°-60°)	2335.7	29.3	B2/2500		
BH	(60°-80°)	1181.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	22.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6
2.5°	903.4	904.1	904.9	904.1	904.9	903.7	903.0	904.1	903.0	901.9	902.6
5°	911.2	911.6	911.6	910.5	911.6	910.8	909.7	911.2	910.1	909.0	909.7
7.5°	924.3	925.8	924.7	923.6	924.3	923.6	922.8	923.2	922.8	921.7	922.1
10°	941.9	943.0	942.2	941.9	942.6	942.2	941.5	941.1	941.5	940.4	940.4
12.5°	963.2	962.8	962.4	962.8	963.9	963.9	963.5	963.9	964.6	965.0	964.3
15°	984.1	984.8	984.8	984.8	987.1	988.9	990.1	990.8	992.3	992.7	991.2
17.5°	1010.2	1010.2	1009.9	1010.2	1012.5	1015.5	1016.6	1018.1	1019.6	1020.7	1018.8
20°	1039.4	1040.1	1040.1	1040.9	1043.9	1047.2	1047.2	1048.0	1047.2	1048.0	1046.8
22.5°	1074.9	1077.1	1077.1	1077.5	1080.5	1084.6	1083.5	1084.6	1082.7	1084.2	1082.7
25°	1121.2	1124.5	1123.8	1123.8	1126.0	1128.7	1129.0	1131.3	1130.9	1132.8	1131.6
27.5°	1173.5	1178.7	1180.2	1179.8	1181.3	1184.0	1184.7	1187.3	1185.8	1187.3	1186.6
30°	1236.3	1238.5	1241.5	1242.6	1244.5	1247.1	1247.1	1247.5	1245.6	1247.8	1249.0
32.5°	1301.3	1305.4	1308.4	1315.1	1318.5	1320.3	1319.9	1320.7	1318.8	1321.8	1324.1
35°	1387.2	1390.2	1395.0	1400.3	1404.8	1404.4	1403.3	1403.6	1403.6	1406.2	1408.5
37.5°	1490.7	1491.4	1497.8	1505.3	1507.5	1505.3	1498.5	1497.0	1493.7	1497.0	1500.8
40°	1600.1	1602.8	1615.5	1620.3	1621.4	1617.3	1607.6	1602.0	1594.5	1598.7	1603.9
42.5°	1714.8	1720.1	1731.7	1740.2	1744.0	1741.4	1727.9	1719.3	1709.6	1711.9	1717.1
45°	1841.9	1848.2	1864.7	1872.9	1880.0	1875.9	1862.8	1849.7	1834.4	1835.5	1843.7
47.5°	1983.8	1990.2	2011.5	2025.3	2029.0	2028.3	2013.7	1995.8	1974.9	1974.1	1981.2
50°	2143.0	2149.3	2175.9	2197.2	2208.0	2206.9	2189.7	2164.3	2138.9	2139.3	2148.2
52.5°	2298.4	2306.3	2333.9	2370.5	2391.8	2407.1	2396.7	2372.8	2341.8	2342.5	2350.7
55°	2444.1	2457.2	2489.0	2538.6	2578.2	2621.2	2633.5	2632.8	2614.1	2619.3	2627.6
57.5°	2514.7	2534.2	2583.1	2661.6	2742.3	2829.7	2903.7	2958.9	2982.5	3018.0	3009.8
60°	2381.0	2412.0	2484.1	2599.5	2759.1	2941.4	3136.8	3327.7	3490.6	3613.5	3542.9
62.5°	1949.5	1989.8	2077.2	2225.2	2466.5	2758.3	3132.3	3583.6	4075.3	4371.9	4160.1
65°	1219.8	1261.7	1350.6	1509.0	1791.4	2154.2	2661.6	3409.5	4328.2	4775.4	4344.3
67.5°	475.6	498.4	546.6	647.8	860.0	1182.8	1692.1	2540.9	3639.7	4031.6	3572.0
70°	238.4	240.6	249.6	268.2	313.8	407.6	620.2	1178.0	2087.3	2521.1	2012.2
72.5°	172.2	172.6	177.1	185.3	199.9	220.8	261.1	360.5	678.8	1037.5	636.2
75°	131.9	133.4	136.0	140.5	148.3	158.8	173.4	207.7	257.4	298.5	251.1
77.5°	101.6	104.6	106.5	110.6	115.4	122.5	126.7	139.7	162.5	171.1	168.5
80°	77.3	80.0	84.1	87.4	90.8	94.1	92.7	98.6	110.6	117.7	113.9
82.5°	49.3	52.3	64.3	67.2	68.7	71.0	68.4	68.7	74.0	78.5	74.0
85°	31.8	33.6	40.7	44.5	44.8	46.3	45.2	42.6	42.6	38.9	43.7
87.5°	14.6	14.9	18.3	21.7	22.4	20.2	19.8	19.1	15.3	14.6	15.7
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°	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6
2.5°	902.3	903.0	903.4	904.5	904.9	904.9	905.2	906.0
5°	909.4	910.5	910.8	912.3	912.7	912.3	913.1	913.5
7.5°	922.1	923.9	924.7	926.2	925.0	926.5	926.9	926.9
10°	940.7	942.6	943.0	944.5	943.7	944.5	944.5	943.7
12.5°	965.4	965.8	964.6	965.8	964.3	965.0	963.9	963.2
15°	992.7	991.5	988.9	988.9	986.7	987.1	986.7	986.3
17.5°	1019.2	1017.0	1015.1	1014.3	1012.5	1012.1	1011.0	1011.0
20°	1048.3	1047.2	1046.1	1044.6	1042.7	1040.9	1040.5	1041.2
22.5°	1083.5	1083.1	1083.1	1082.3	1079.7	1077.8	1076.7	1076.7
25°	1130.5	1127.2	1127.2	1126.8	1125.7	1124.5	1122.3	1123.4
27.5°	1183.6	1181.7	1183.2	1182.8	1181.7	1181.7	1180.2	1180.2
30°	1249.0	1248.2	1250.5	1248.6	1244.9	1244.5	1243.0	1241.1
32.5°	1324.4	1323.7	1327.0	1324.8	1318.8	1315.5	1312.5	1311.0
35°	1408.5	1408.9	1413.0	1411.5	1404.8	1402.5	1397.3	1396.5
37.5°	1500.4	1506.4	1513.5	1515.0	1509.4	1507.9	1502.3	1499.3
40°	1608.4	1616.2	1627.0	1629.7	1623.7	1622.6	1614.7	1610.6
42.5°	1723.4	1736.9	1750.3	1752.6	1746.6	1740.6	1733.2	1730.2
45°	1852.0	1868.0	1885.6	1890.1	1881.1	1874.0	1864.3	1864.3
47.5°	1996.2	2016.3	2036.1	2048.5	2040.3	2032.8	2021.2	2013.7
50°	2166.5	2194.2	2220.0	2232.7	2219.6	2205.4	2185.2	2178.5
52.5°	2380.2	2410.1	2432.5	2425.8	2405.6	2385.8	2363.8	2354.8
55°	2653.0	2663.1	2663.1	2637.6	2597.3	2564.0	2529.3	2517.7
57.5°	2994.1	2955.2	2895.4	2819.6	2724.3	2641.4	2585.3	2558.8
60°	3394.9	3208.1	2997.1	2789.7	2619.3	2478.9	2395.6	2357.4
62.5°	3662.1	3173.4	2750.5	2417.6	2172.5	2003.3	1888.2	1843.4
65°	3422.6	2646.6	2080.2	1682.0	1414.8	1242.6	1128.7	1086.8
67.5°	2506.9	1658.4	1107.7	793.9	581.7	464.0	417.3	397.9
70°	1125.3	583.9	357.9	279.5	241.0	221.2	212.6	209.6
72.5°	339.2	245.5	207.0	186.8	171.5	161.8	154.7	153.9
75°	204.7	170.4	151.3	139.4	129.6	121.8	118.1	116.9
77.5°	143.1	125.2	116.2	107.6	100.1	94.1	90.8	88.2
80°	100.5	91.9	87.8	82.9	78.1	72.5	67.6	65.4
82.5°	67.2	65.4	65.4	62.4	58.3	53.1	43.3	41.1
85°	43.3	43.0	43.7	42.6	39.6	34.0	28.0	26.5
87.5°	20.2	20.5	22.8	22.4	21.7	17.9	14.2	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)