

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: P299469

Luminaire Tested: **GAA-AF-03-LED-U-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299469
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-03-LED-U-5NQ-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 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: 10042.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 96
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

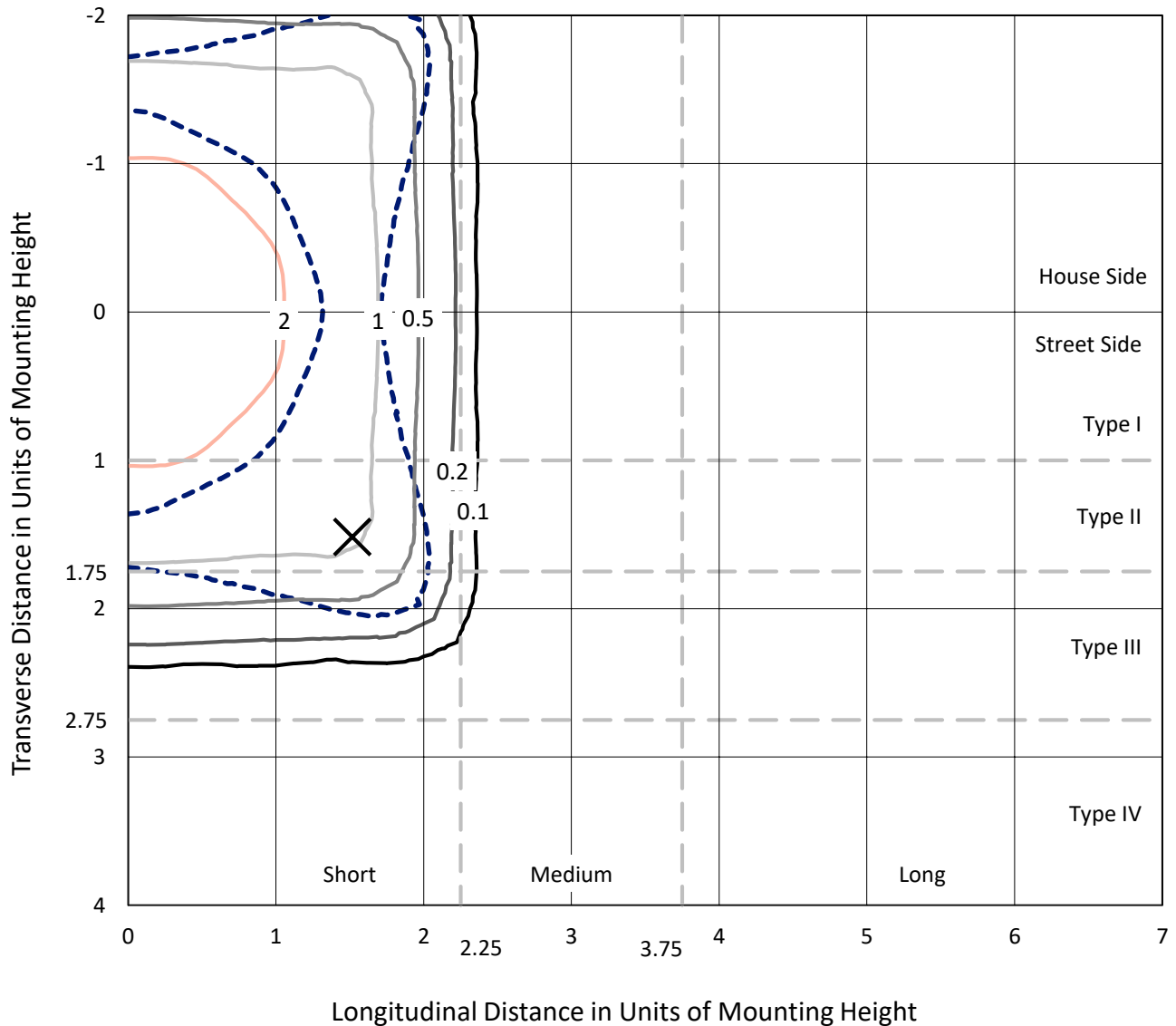


REPORT NUMBER: P299469

CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

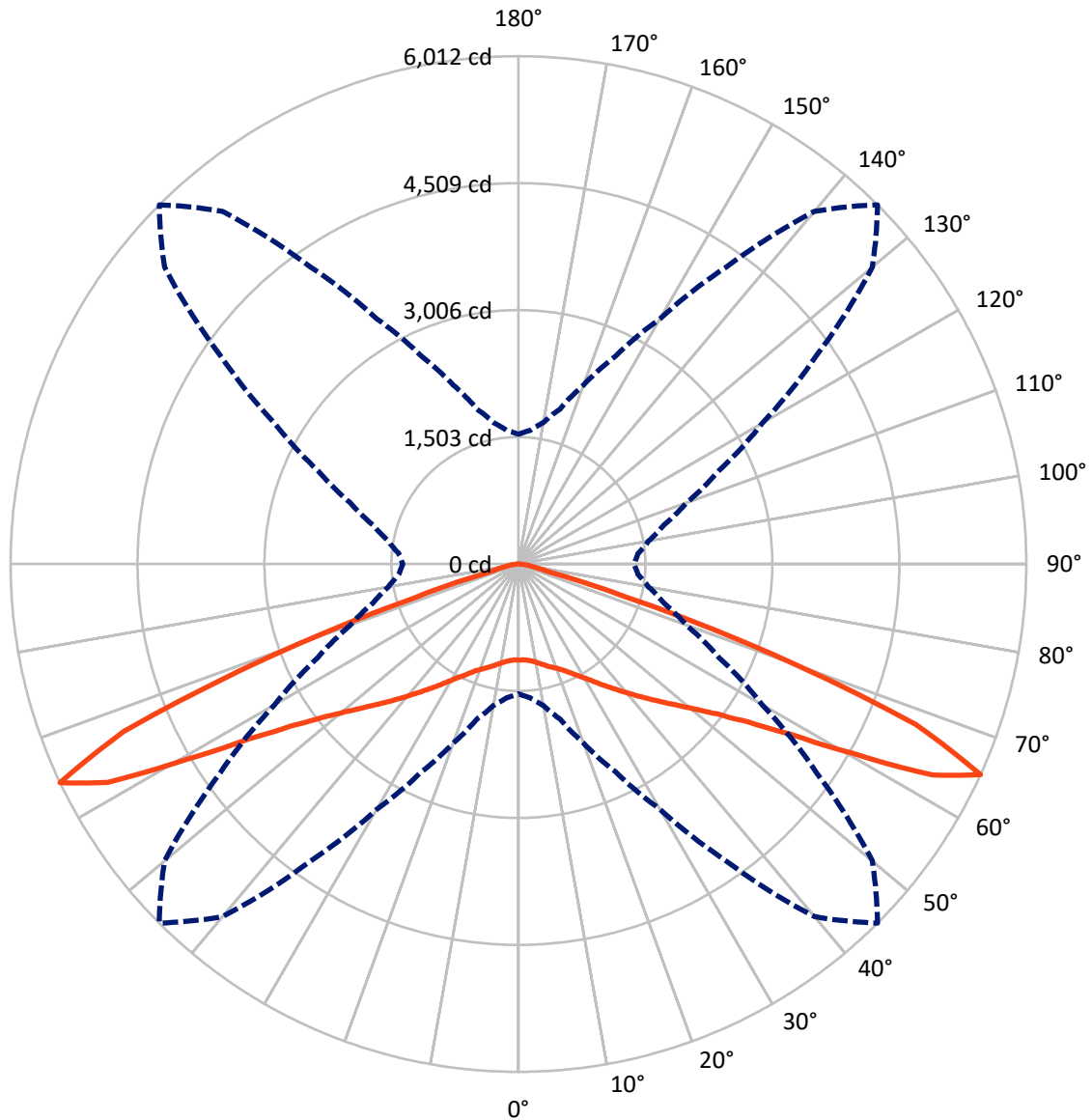


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P299469

CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299469

CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5021.3	0.0	5021.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5021.3	0.0	5021.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10042.6	0.0	10042.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.1
10°-20°	355.2	3.5
20°-30°	664.2	6.6
30°-40°	1123.3	11.2
40°-50°	1836.7	18.3
50°-60°	2920.7	29.1
60°-70°	2640.1	26.3
70°-80°	334.1	3.3
80°-90°	57.5	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°	10042.6	100.0
0°-180°	10042.6	100.0

Coefficient of Utilization



REPORT NUMBER: P299469

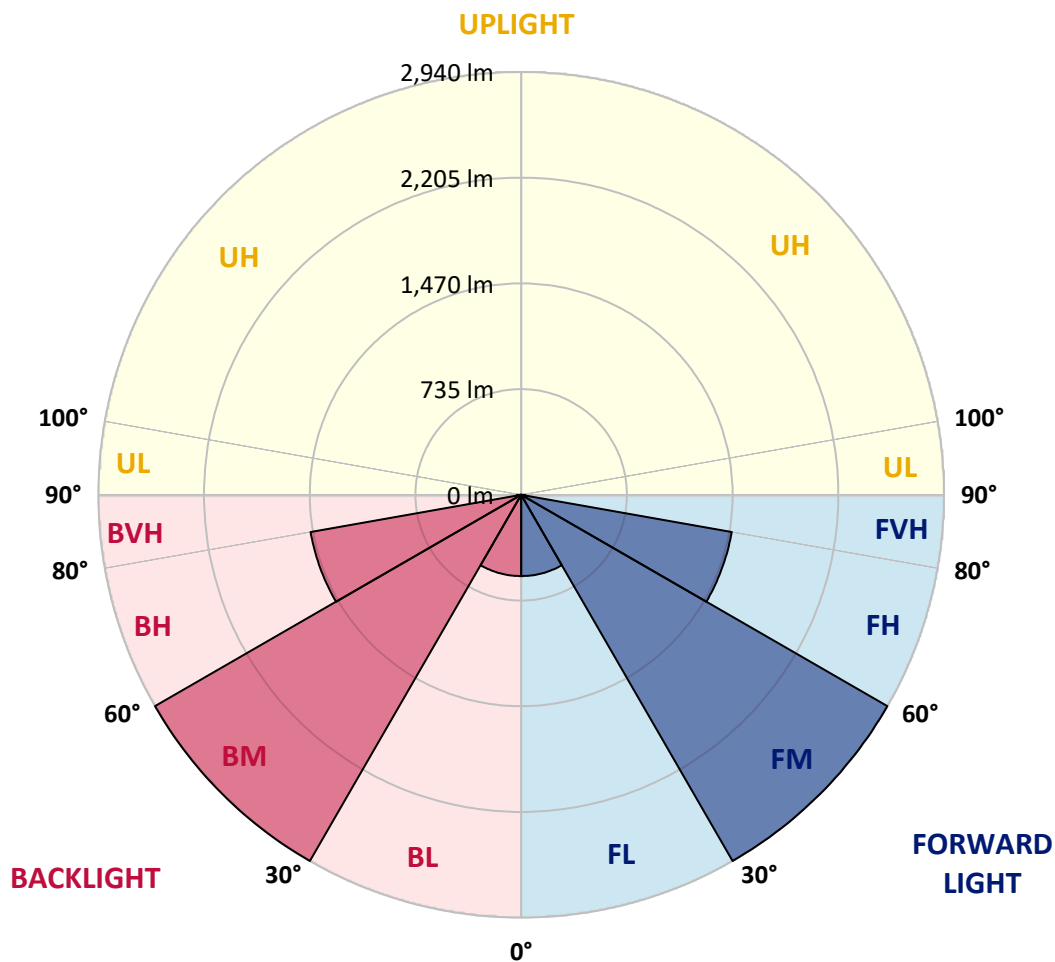
CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.1	5.6			
FM	(30°-60°)	2940.4	29.3			
FH	(60°-80°)	1487.1	14.8			G1/1800
FVH	(80°-90°)	28.7	0.3			G1/100
BL	(0°-30°)	565.1	5.6	B2/1000		
BM	(30°-60°)	2940.4	29.3	B3/5000		
BH	(60°-80°)	1487.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	28.7	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: P299469

CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3
2.5°	1137.3	1138.2	1139.1	1138.2	1139.1	1137.7	1136.8	1138.2	1136.8	1135.4	1136.3
5°	1147.1	1147.6	1147.6	1146.2	1147.6	1146.7	1145.3	1147.1	1145.7	1144.3	1145.3
7.5°	1163.6	1165.5	1164.1	1162.7	1163.6	1162.7	1161.7	1162.2	1161.7	1160.3	1160.8
10°	1185.7	1187.1	1186.2	1185.7	1186.7	1186.2	1185.2	1184.8	1185.2	1183.8	1183.8
12.5°	1212.5	1212.1	1211.6	1212.1	1213.5	1213.5	1213.0	1213.5	1214.4	1214.9	1213.9
15°	1238.9	1239.8	1239.8	1239.8	1242.6	1245.0	1246.4	1247.3	1249.2	1249.7	1247.8
17.5°	1271.8	1271.8	1271.3	1271.8	1274.6	1278.4	1279.8	1281.7	1283.5	1285.0	1282.6
20°	1308.5	1309.4	1309.4	1310.4	1314.1	1318.3	1318.3	1319.3	1318.3	1319.3	1317.9
22.5°	1353.2	1356.0	1356.0	1356.4	1360.2	1365.4	1364.0	1365.4	1363.0	1364.9	1363.0
25°	1411.5	1415.7	1414.8	1414.8	1417.6	1420.9	1421.4	1424.2	1423.7	1426.1	1424.6
27.5°	1477.3	1483.9	1485.8	1485.3	1487.2	1490.5	1491.4	1494.7	1492.8	1494.7	1493.8
30°	1556.3	1559.2	1562.9	1564.3	1566.7	1570.0	1570.0	1570.4	1568.1	1570.9	1572.3
32.5°	1638.2	1643.3	1647.1	1655.6	1659.8	1662.2	1661.7	1662.6	1660.3	1664.0	1666.9
35°	1746.4	1750.1	1756.2	1762.8	1768.5	1768.0	1766.6	1767.0	1767.0	1770.3	1773.2
37.5°	1876.6	1877.6	1885.6	1895.0	1897.8	1895.0	1886.5	1884.6	1880.4	1884.6	1889.3
40°	2014.4	2017.7	2033.7	2039.8	2041.3	2036.1	2023.8	2016.8	2007.4	2012.6	2019.1
42.5°	2158.8	2165.4	2180.0	2190.8	2195.5	2192.2	2175.3	2164.5	2152.2	2155.1	2161.7
45°	2318.7	2326.7	2347.4	2357.8	2366.7	2361.5	2345.1	2328.6	2309.3	2310.8	2321.1
47.5°	2497.5	2505.5	2532.3	2549.7	2554.4	2553.4	2535.1	2512.5	2486.2	2485.2	2494.2
50°	2697.8	2705.8	2739.2	2766.0	2779.7	2778.3	2756.6	2724.6	2692.7	2693.1	2704.4
52.5°	2893.5	2903.4	2938.2	2984.3	3011.1	3030.4	3017.2	2987.1	2948.1	2949.0	2959.3
55°	3076.9	3093.4	3133.4	3195.9	3245.8	3299.9	3315.4	3314.4	3290.9	3297.5	3307.9
57.5°	3165.8	3190.3	3251.9	3350.7	3452.3	3562.3	3655.4	3725.0	3754.7	3799.4	3789.0
60°	2997.4	3036.5	3127.3	3272.6	3473.4	3702.9	3948.9	4189.3	4394.3	4549.1	4460.2
62.5°	2454.2	2505.0	2615.1	2801.3	3105.1	3472.5	3943.3	4511.4	5130.4	5503.9	5237.2
65°	1535.6	1588.3	1700.3	1899.7	2255.3	2711.9	3350.7	4292.3	5448.8	6011.8	5469.0
67.5°	598.7	627.4	688.1	815.6	1082.7	1489.1	2130.1	3198.7	4582.0	5075.4	4496.9
70°	300.1	302.9	314.2	337.7	395.1	513.1	780.8	1483.0	2627.8	3173.8	2533.2
72.5°	216.8	217.3	222.9	233.3	251.6	278.0	328.8	453.9	854.6	1306.1	801.0
75°	166.0	167.9	171.2	176.8	186.7	199.9	218.2	261.5	324.1	375.8	316.1
77.5°	127.9	131.7	134.0	139.2	145.3	154.3	159.4	175.9	204.6	215.4	212.1
80°	97.4	100.7	105.8	110.1	114.3	118.5	116.6	124.2	139.2	148.2	143.5
82.5°	62.1	65.8	80.9	84.7	86.5	89.4	86.1	86.5	93.1	98.8	93.1
85°	40.0	42.3	51.3	56.0	56.4	58.3	56.9	53.6	53.6	48.9	55.0
87.5°	18.3	18.8	23.0	27.3	28.2	25.4	24.9	24.0	19.3	18.3	19.8
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: P299469

CATALOG NUMBER: GAA-AF-03-LED-U-5NQ-8030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3
2.5°	1135.9	1136.8	1137.3	1138.7	1139.1	1139.1	1139.6	1140.6
5°	1144.8	1146.2	1146.7	1148.6	1149.0	1148.6	1149.5	1150.0
7.5°	1160.8	1163.1	1164.1	1166.0	1164.5	1166.4	1166.9	1166.9
10°	1184.3	1186.7	1187.1	1189.0	1188.1	1189.0	1189.0	1188.1
12.5°	1215.3	1215.8	1214.4	1215.8	1213.9	1214.9	1213.5	1212.5
15°	1249.7	1248.3	1245.0	1245.0	1242.2	1242.6	1242.2	1241.7
17.5°	1283.1	1280.3	1277.9	1277.0	1274.6	1274.1	1272.7	1272.7
20°	1319.8	1318.3	1316.9	1315.1	1312.7	1310.4	1309.9	1310.8
22.5°	1364.0	1363.5	1363.5	1362.6	1359.3	1356.9	1355.5	1355.5
25°	1423.2	1419.0	1419.0	1418.5	1417.1	1415.7	1412.9	1414.3
27.5°	1490.0	1487.7	1489.5	1489.1	1487.7	1487.7	1485.8	1485.8
30°	1572.3	1571.4	1574.2	1571.9	1567.2	1566.7	1564.8	1562.5
32.5°	1667.3	1666.4	1670.6	1667.8	1660.3	1656.0	1652.3	1650.4
35°	1773.2	1773.6	1778.8	1776.9	1768.5	1765.6	1759.1	1758.1
37.5°	1888.9	1896.4	1905.3	1907.2	1900.2	1898.3	1891.2	1887.5
40°	2024.8	2034.7	2048.3	2051.6	2044.1	2042.7	2032.8	2027.6
42.5°	2169.7	2186.6	2203.5	2206.3	2198.8	2191.3	2181.9	2178.1
45°	2331.4	2351.7	2373.8	2379.4	2368.1	2359.2	2347.0	2347.0
47.5°	2513.0	2538.4	2563.3	2578.8	2568.5	2559.1	2544.5	2535.1
50°	2727.5	2762.3	2794.7	2810.7	2794.3	2776.4	2751.0	2742.5
52.5°	2996.5	3034.1	3062.3	3053.9	3028.5	3003.6	2975.8	2964.5
55°	3339.8	3352.5	3352.5	3320.6	3269.8	3227.9	3184.2	3169.6
57.5°	3769.3	3720.3	3645.1	3549.6	3429.7	3325.3	3254.7	3221.3
60°	4273.9	4038.8	3773.0	3512.0	3297.5	3120.7	3015.8	2967.8
62.5°	4610.2	3995.0	3462.6	3043.5	2735.0	2521.9	2377.1	2320.6
65°	4308.7	3331.8	2618.8	2117.4	1781.2	1564.3	1420.9	1368.2
67.5°	3155.9	2087.8	1394.5	999.5	732.3	584.2	525.4	500.9
70°	1416.6	735.1	450.6	351.8	303.4	278.4	267.6	263.9
72.5°	427.1	309.0	260.6	235.2	215.9	203.7	194.7	193.8
75°	257.7	214.5	190.5	175.4	163.2	153.3	148.6	147.2
77.5°	180.1	157.6	146.3	135.5	126.0	118.5	114.3	111.0
80°	126.5	115.7	110.5	104.4	98.3	91.2	85.1	82.3
82.5°	84.7	82.3	82.3	78.5	73.4	66.8	54.6	51.7
85°	54.6	54.1	55.0	53.6	49.9	42.8	35.3	33.4
87.5°	25.4	25.9	28.7	28.2	27.3	22.6	17.9	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)