

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: P318346

Luminaire Tested: **GAN-SA2A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8686 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

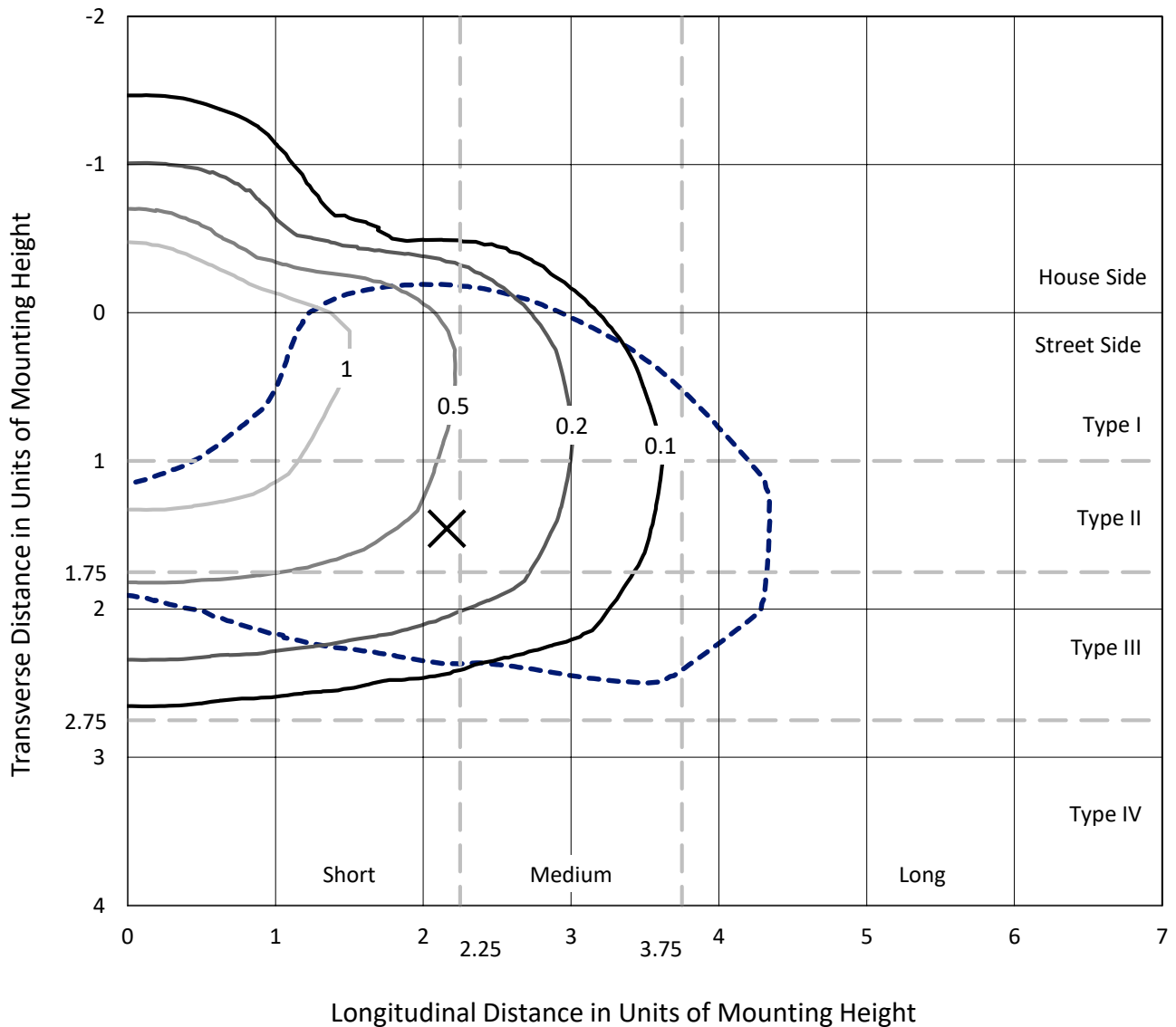
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318346
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Iso-Footcandle Lines of Horizontal Illumination

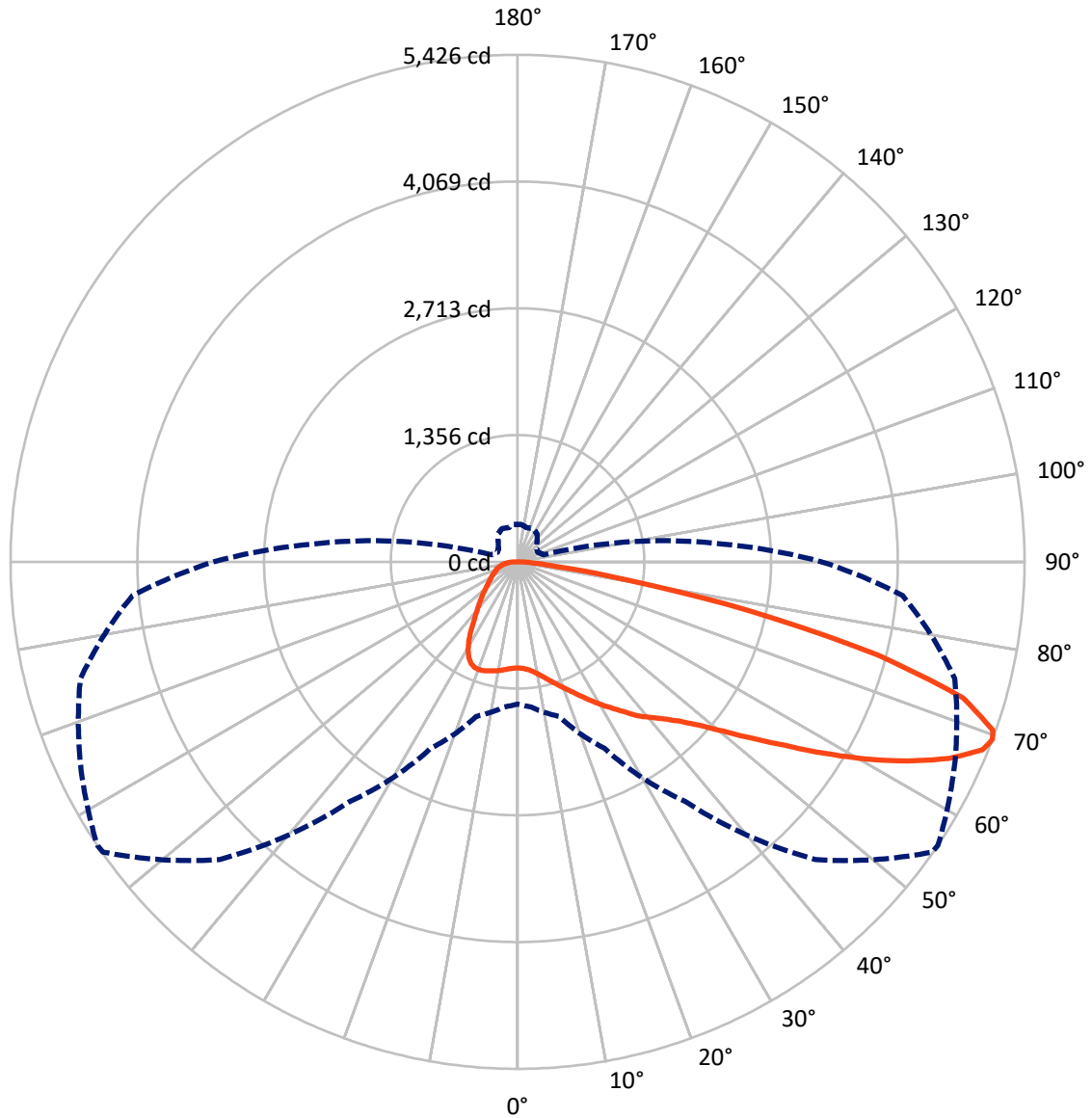
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P318346
CATALOG NUMBER: GAN-SA2A-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.4	0.0	1934.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6751.6	0.0	6751.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	8686.0	0.0	8686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.3
10°-20°	358.6	4.1
20°-30°	626.0	7.2
30°-40°	899.3	10.4
40°-50°	1244.6	14.3
50°-60°	1823.5	21.0
60°-70°	2223.1	25.6
70°-80°	1229.1	14.2
80°-90°	170.2	2.0
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°	8686.0	100.0
0°-180°	8686.0	100.0

Coefficient of Utilization



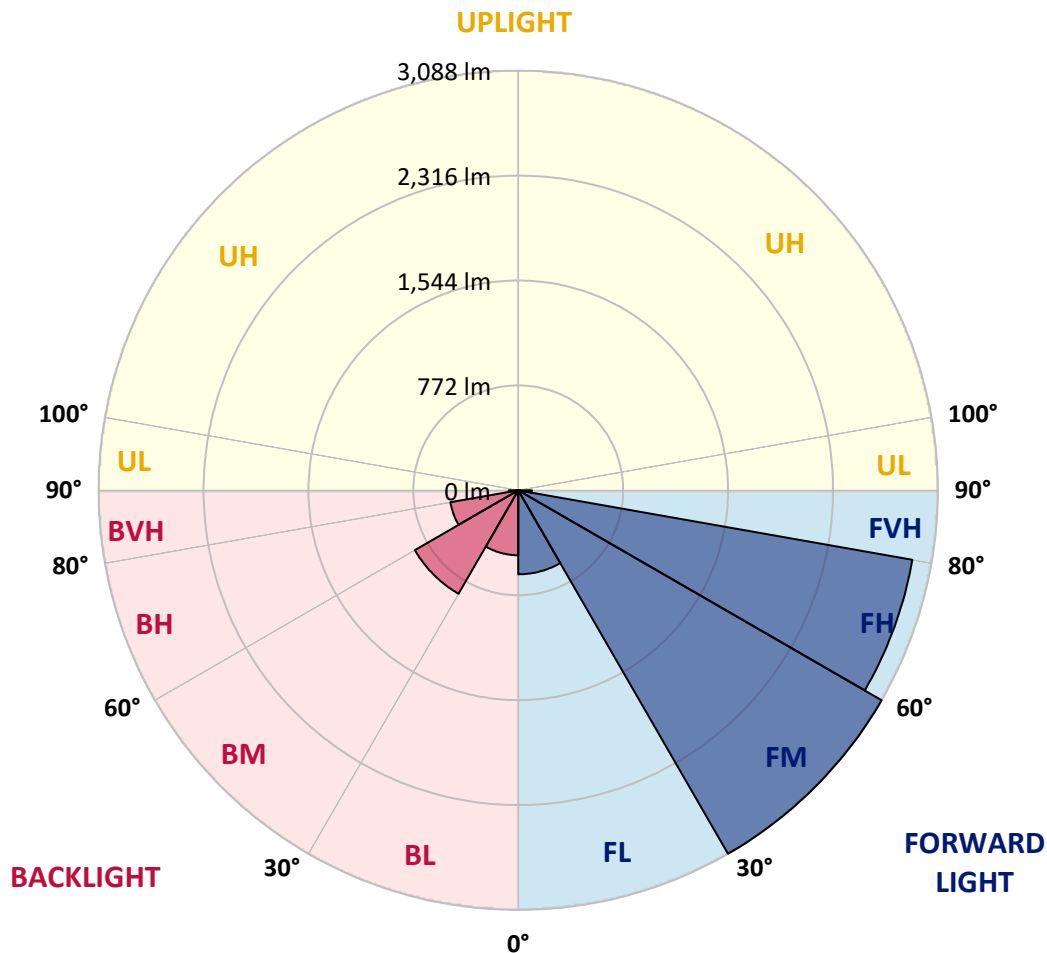
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 CATALOG NUMBER: GAN-SA2A-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.2	7.1			
FM (30°-60°)	3088.2	35.6			
FH (60°-80°)	2945.0	33.9			G2/5000
FVH (80°-90°)	100.3	1.2			G2/225
BL (0°-30°)	478.0	5.5	B1/500		
BM (30°-60°)	879.1	10.1	B1/1000		
BH (60°-80°)	507.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	70.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P318346
 CATALOG NUMBER: GAN-SA2A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
2.5°	1142.7	1143.9	1143.0	1145.4	1142.7	1144.5	1143.0	1143.0	1142.1	1139.5	1136.5
5°	1160.7	1163.1	1161.6	1164.0	1160.7	1161.3	1158.6	1158.6	1155.9	1150.2	1144.2
7.5°	1188.8	1191.5	1190.3	1192.7	1188.2	1188.2	1184.6	1184.3	1179.0	1169.7	1162.8
10°	1222.3	1225.9	1224.7	1228.3	1224.7	1225.9	1222.3	1222.3	1215.2	1202.0	1193.3
12.5°	1271.1	1275.6	1272.3	1272.0	1270.5	1272.9	1269.9	1269.3	1262.7	1244.8	1232.8
15°	1336.3	1341.1	1334.3	1333.7	1325.3	1324.4	1324.4	1323.5	1319.3	1297.7	1278.0
17.5°	1411.5	1412.9	1407.0	1397.4	1386.6	1379.7	1378.8	1381.2	1381.2	1356.1	1324.7
20°	1485.1	1487.8	1483.0	1472.2	1458.4	1448.3	1441.1	1445.9	1445.6	1415.6	1371.1
22.5°	1565.3	1571.5	1564.4	1550.6	1534.4	1523.1	1510.5	1514.7	1515.0	1478.2	1416.5
25°	1669.1	1663.4	1658.9	1639.5	1616.4	1604.8	1593.1	1597.3	1596.1	1545.5	1463.5
27.5°	1760.9	1762.1	1756.2	1735.5	1708.9	1683.1	1682.5	1685.2	1680.8	1615.5	1507.8
30°	1867.8	1868.4	1860.0	1841.4	1812.4	1779.2	1771.4	1775.9	1766.3	1682.0	1554.5
32.5°	1974.0	1977.0	1967.7	1945.3	1921.9	1881.5	1866.0	1869.0	1845.0	1749.9	1602.7
35°	2067.1	2071.2	2068.3	2053.3	2027.9	1993.1	1974.6	1972.8	1943.2	1833.1	1666.4
37.5°	2161.9	2165.8	2162.5	2149.9	2139.8	2103.0	2093.1	2093.1	2041.6	1918.0	1747.5
40°	2259.5	2265.4	2261.6	2244.2	2235.5	2218.8	2195.1	2189.4	2133.8	2020.1	1879.7
42.5°	2350.1	2357.9	2373.5	2363.3	2345.6	2348.0	2300.5	2297.5	2256.8	2170.9	2045.8
45°	2478.8	2490.2	2516.5	2508.7	2505.1	2492.0	2435.4	2432.7	2417.1	2373.8	2252.0
47.5°	2619.1	2634.7	2682.3	2683.8	2722.4	2697.5	2620.6	2611.3	2614.9	2616.7	2503.6
50°	2748.4	2765.4	2843.5	2880.4	2971.3	2976.7	2853.7	2845.3	2859.4	2900.7	2796.9
52.5°	2851.6	2873.2	2970.7	3084.4	3240.3	3284.6	3140.7	3134.4	3144.9	3216.1	3128.4
55°	2927.3	2950.7	3056.9	3264.0	3512.9	3591.0	3471.0	3465.0	3471.6	3562.3	3489.0
57.5°	2945.0	2950.7	3104.8	3384.8	3743.0	3930.6	3875.3	3863.3	3831.0	3910.0	3886.9
60°	2862.1	2884.8	3065.3	3427.3	3921.1	4265.5	4297.8	4282.8	4192.2	4256.8	4238.2
62.5°	2693.9	2734.6	2917.8	3362.7	3990.8	4539.0	4712.2	4694.3	4538.1	4580.0	4490.8
65°	2419.2	2436.6	2629.0	3139.8	3902.2	4714.0	5081.8	5072.8	4876.2	4810.7	4537.5
67.5°	1927.9	1960.5	2123.9	2673.9	3539.8	4693.4	5367.5	5366.6	5097.0	4896.2	4372.0
69°	1523.1	1556.9	1712.5	2202.6	3132.3	4504.6	5415.4	5425.9	5159.3	4844.2	4135.6
70°	1214.3	1253.5	1360.3	1855.2	2770.5	4255.6	5375.6	5394.5	5147.3	4758.3	3917.5
72.5°	516.8	548.5	624.5	956.3	1688.5	3177.8	4915.1	4986.3	4869.9	4354.9	3237.6
75°	225.6	235.5	269.9	389.9	749.6	1729.5	3850.4	3982.1	4164.0	3681.1	2411.8
77.5°	165.2	169.4	188.2	228.9	336.3	653.2	2476.1	2552.7	3003.0	2678.7	1479.4
80°	127.8	130.8	145.4	168.2	219.6	264.2	1129.3	1195.1	1688.5	1375.8	616.1
82.5°	101.7	103.8	114.0	123.9	151.7	160.1	374.9	415.9	623.3	380.0	163.1
85°	94.6	96.9	100.5	90.4	97.2	94.0	162.2	169.7	188.2	149.3	68.2
87.5°	42.8	50.6	99.6	70.3	51.8	41.3	66.4	69.4	78.1	78.4	30.2
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: P318346
 CATALOG NUMBER: GAN-SA2A-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
2.5°	1138.3	1137.4	1138.9	1135.3	1139.8	1139.5	1138.0	1138.6	1141.5	1141.2	1141.5
5°	1145.1	1144.5	1146.3	1143.6	1149.0	1150.8	1151.1	1153.8	1157.1	1158.0	1158.0
7.5°	1162.5	1162.5	1163.4	1159.8	1163.4	1163.1	1161.6	1164.3	1167.6	1167.9	1167.6
10°	1192.4	1192.7	1191.2	1181.9	1179.0	1170.9	1163.4	1163.7	1167.9	1171.2	1172.1
12.5°	1230.1	1228.9	1222.3	1205.3	1192.7	1176.3	1168.5	1168.2	1172.4	1175.1	1176.0
15°	1273.2	1269.9	1252.9	1225.0	1202.9	1186.7	1174.2	1171.2	1168.8	1165.8	1166.1
17.5°	1313.9	1306.4	1278.0	1239.4	1216.1	1194.5	1170.3	1150.8	1137.4	1129.6	1127.2
20°	1355.2	1340.5	1299.5	1252.9	1223.2	1184.0	1137.4	1097.9	1073.3	1062.0	1059.9
22.5°	1392.9	1369.3	1319.6	1266.9	1217.6	1148.7	1075.4	1018.0	983.9	968.6	969.8
25°	1429.7	1396.8	1340.5	1276.8	1188.8	1086.5	989.2	918.6	879.1	862.1	861.5
27.5°	1462.0	1424.6	1363.3	1268.7	1135.3	997.9	887.2	818.4	785.5	770.8	768.4
30°	1499.1	1459.6	1393.5	1237.9	1056.9	895.6	787.6	739.1	715.7	701.1	698.4
32.5°	1544.3	1507.2	1418.3	1181.9	956.6	788.8	709.8	676.0	654.7	638.2	635.3
35°	1610.1	1570.0	1424.6	1101.8	846.5	704.4	652.6	617.9	589.2	567.9	565.8
37.5°	1692.7	1648.7	1410.3	997.9	739.7	649.6	605.0	562.2	524.8	494.9	490.1
40°	1811.8	1745.4	1370.5	878.2	661.0	607.4	558.7	509.9	463.5	428.5	421.6
42.5°	1954.8	1858.8	1309.4	759.1	603.2	564.6	512.6	452.1	407.8	383.0	379.4
45°	2136.8	1976.7	1224.7	655.0	546.4	521.9	462.9	407.2	379.7	361.5	358.5
47.5°	2344.4	2108.9	1135.9	570.3	498.2	481.8	423.1	387.2	365.4	351.0	348.3
50°	2599.7	2258.3	1041.6	500.9	449.7	433.6	404.3	376.1	358.8	347.7	345.0
52.5°	2887.5	2426.7	973.7	446.1	409.6	398.0	394.4	370.1	356.1	347.7	345.0
55°	3197.5	2598.2	900.4	400.1	374.9	378.2	387.8	370.7	361.2	351.0	347.1
57.5°	3507.8	2775.3	818.7	361.2	347.4	363.6	383.3	371.9	363.9	354.0	350.4
60°	3753.2	2887.5	692.1	328.6	325.6	347.4	372.5	363.0	352.5	352.8	352.2
62.5°	3867.8	2881.5	552.4	299.5	303.7	325.6	355.2	348.9	340.2	351.9	352.8
65°	3803.5	2737.9	430.0	273.2	280.4	302.8	337.2	342.0	345.0	367.4	370.4
67.5°	3533.6	2458.4	333.0	250.2	259.1	287.3	339.0	372.5	376.4	400.1	399.8
69°	3254.4	2196.3	289.4	238.2	248.7	291.1	362.4	392.0	377.3	402.5	398.9
70°	3020.4	1989.0	266.0	230.1	243.9	298.0	377.9	391.7	372.8	394.4	388.4
72.5°	2326.2	1430.9	225.6	215.1	227.7	285.2	382.4	383.0	362.4	366.6	356.4
75°	1595.5	904.3	196.9	194.8	203.2	257.0	368.0	366.0	335.1	329.1	320.8
77.5°	879.7	459.3	167.3	175.3	181.0	227.7	334.5	331.5	306.1	293.5	290.5
80°	339.3	201.1	141.2	155.9	159.5	197.2	293.2	290.5	269.3	253.1	248.7
82.5°	128.1	105.3	116.7	135.0	133.8	162.8	248.4	246.9	226.2	202.6	195.4
85°	59.2	63.1	92.5	111.3	102.6	120.6	198.7	201.4	176.2	148.1	148.1
87.5°	25.1	35.3	65.5	84.1	69.1	81.4	145.7	139.1	127.8	88.6	83.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)