

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: P317695

Luminaire Tested: **GAN-SA1D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6946 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

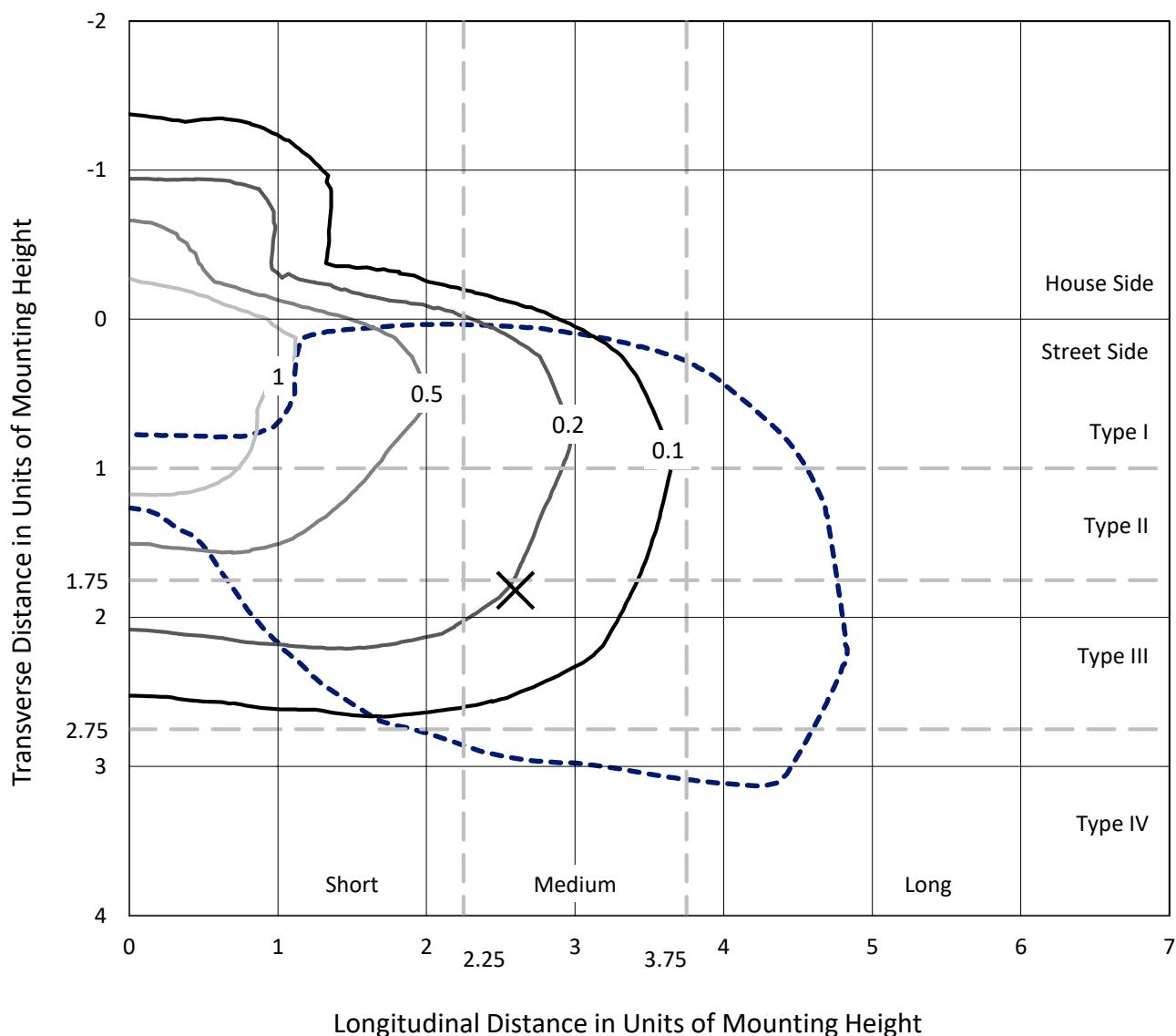
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

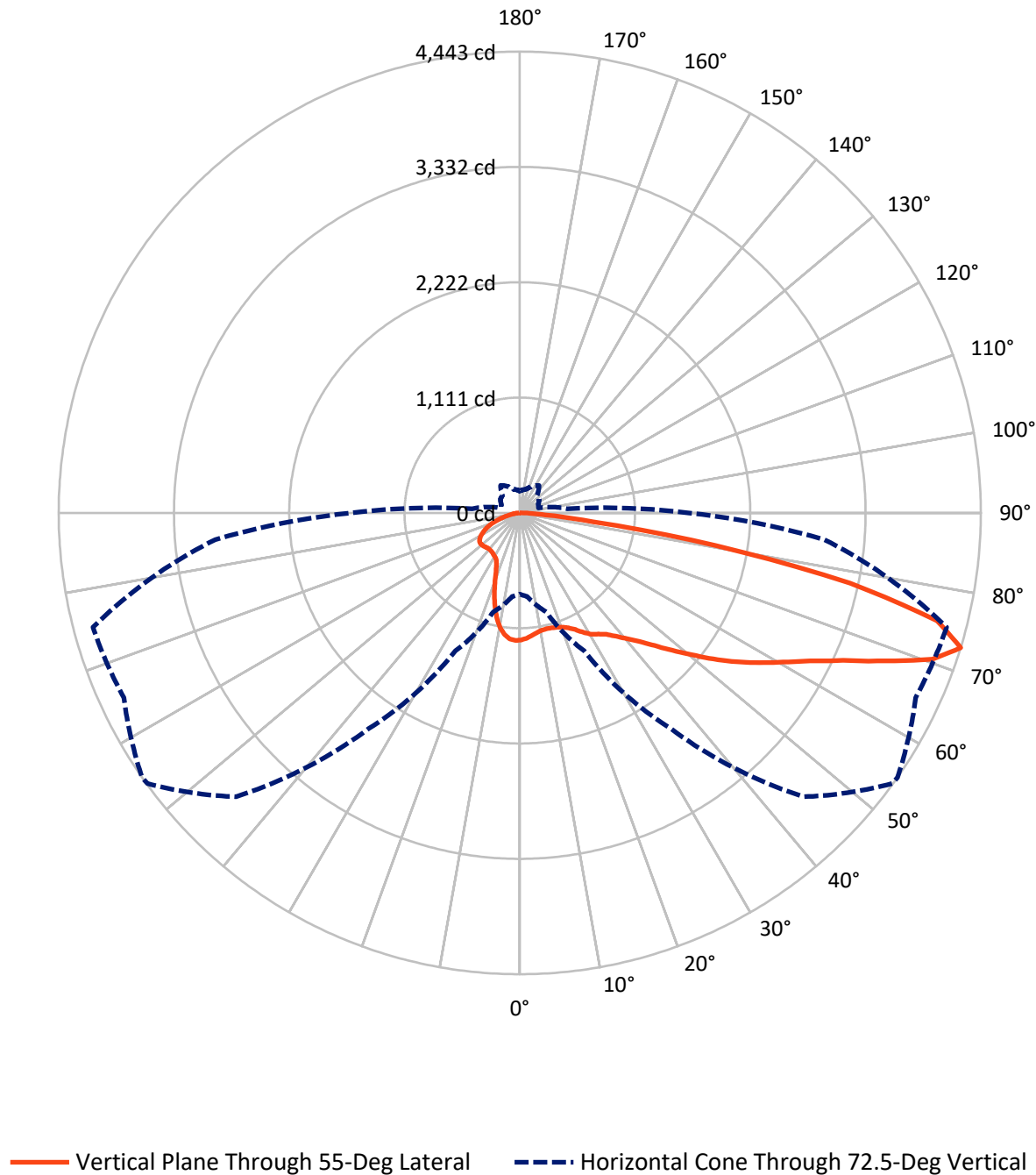
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.0	0.0	1291.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5655.0	0.0	5655.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	6946.0	0.0	6946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.6
10°-20°	295.1	4.2
20°-30°	486.6	7.0
30°-40°	719.8	10.4
40°-50°	1004.7	14.5
50°-60°	1308.2	18.8
60°-70°	1607.8	23.1
70°-80°	1260.3	18.1
80°-90°	152.5	2.2
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°	6946.0	100.0
0°-180°	6946.0	100.0

Coefficient of Utilization



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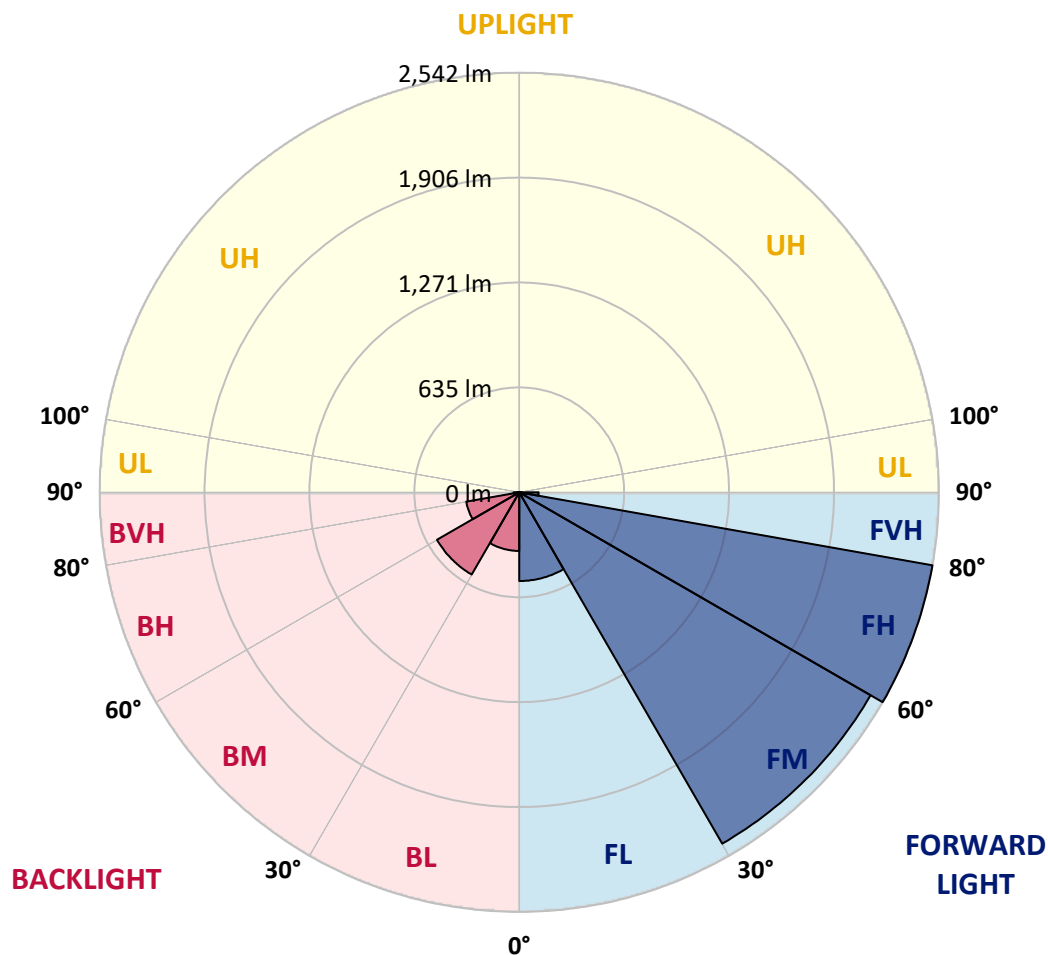
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.4	7.7			
FM	(30°-60°)	2457.6	35.4			
FH	(60°-80°)	2542.0	36.6			G2/5000
FVH	(80°-90°)	117.9	1.7			G2/225
BL	(0°-30°)	355.2	5.1	B1/500		
BM	(30°-60°)	575.2	8.3	B1/1000		
BH	(60°-80°)	326.0	4.7	B1/500		G1/500
BVH	(80°-90°)	34.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1185.2	1182.4	1185.9	1190.9	1196.3	1203.5	1207.8	1209.6	1216.9	1219.7	1225.8
5°	1130.3	1128.9	1134.8	1143.2	1155.2	1172.1	1185.7	1188.3	1207.5	1221.1	1233.6
7.5°	1090.5	1090.5	1097.3	1107.4	1120.7	1143.5	1162.7	1166.2	1198.8	1228.2	1251.2
10°	1058.8	1060.0	1067.9	1079.9	1095.6	1119.8	1145.4	1149.3	1196.5	1244.6	1281.2
12.5°	1037.7	1040.5	1047.8	1058.6	1078.0	1107.4	1139.7	1145.1	1201.4	1268.1	1317.3
15°	1051.0	1055.7	1056.4	1060.9	1071.7	1103.6	1143.0	1148.6	1212.0	1292.0	1358.4
17.5°	1109.7	1111.3	1104.1	1094.7	1089.5	1109.9	1152.9	1158.7	1224.7	1315.7	1397.8
20°	1198.8	1197.9	1182.2	1156.9	1130.6	1133.9	1169.1	1175.2	1241.8	1336.6	1437.2
22.5°	1311.5	1308.2	1284.0	1237.3	1192.5	1173.7	1197.4	1202.6	1267.6	1366.4	1479.4
25°	1448.0	1440.7	1408.8	1346.2	1280.3	1231.9	1240.1	1245.1	1305.1	1399.7	1518.2
27.5°	1592.1	1584.8	1544.2	1468.4	1380.7	1305.4	1299.0	1303.2	1347.8	1424.3	1546.8
30°	1742.7	1734.9	1697.9	1612.9	1487.2	1381.4	1353.9	1355.6	1377.9	1437.7	1570.2
32.5°	1894.0	1886.7	1845.2	1746.7	1602.8	1463.0	1393.6	1391.5	1395.9	1451.5	1596.7
35°	2047.4	2050.2	2001.7	1892.6	1730.9	1553.8	1440.5	1436.0	1426.2	1479.9	1634.3
37.5°	2211.7	2209.8	2146.9	2032.9	1864.9	1652.3	1507.8	1507.1	1473.1	1533.6	1693.2
40°	2321.4	2322.6	2284.4	2176.5	2000.3	1761.4	1594.2	1592.5	1547.9	1614.1	1770.4
42.5°	2364.4	2372.1	2382.0	2313.5	2142.0	1887.9	1697.2	1694.8	1652.3	1729.5	1861.1
45°	2367.4	2382.9	2443.9	2435.2	2285.6	2032.6	1828.8	1822.2	1791.7	1883.0	1969.5
47.5°	2341.2	2357.1	2458.5	2507.7	2413.9	2185.4	1982.7	1977.5	1951.2	2074.9	2086.8
50°	2283.7	2298.9	2428.4	2543.2	2519.5	2332.2	2160.0	2146.4	2132.4	2296.6	2221.0
52.5°	2176.0	2205.3	2388.3	2551.6	2582.6	2462.7	2346.6	2337.6	2345.4	2530.5	2355.5
55°	1921.0	1953.8	2284.9	2544.6	2629.3	2572.2	2533.1	2532.6	2572.7	2775.9	2499.8
57.5°	1778.1	1801.3	2074.2	2532.6	2684.6	2681.1	2717.7	2722.2	2800.3	3043.1	2650.8
60°	1697.4	1721.8	1967.4	2488.3	2770.5	2821.9	2906.1	2915.0	3031.6	3338.9	2832.7
62.5°	1624.0	1650.7	1901.3	2397.9	2871.6	3023.2	3131.8	3139.8	3276.5	3643.0	3008.4
65°	1498.4	1528.7	1804.4	2338.6	2963.6	3285.7	3418.7	3424.1	3557.8	3961.6	3142.8
67.5°	1321.1	1348.8	1621.6	2207.4	3031.6	3604.5	3800.2	3803.2	3836.8	4186.6	3211.6
70°	1113.9	1124.5	1361.2	1936.7	2951.1	3902.7	4218.3	4219.0	4091.1	4330.6	3200.3
72.5°	782.7	807.5	988.2	1466.1	2536.1	3866.3	4435.3	4443.2	4209.3	4257.9	2944.6
75°	480.0	506.3	619.8	888.5	1608.9	3040.8	4097.9	4153.3	3987.6	3796.4	2405.4
77.5°	320.9	330.8	404.5	518.0	728.9	1749.5	3150.6	3254.7	3312.7	2768.6	1538.3
80°	179.0	197.8	268.2	321.9	324.2	695.1	1889.1	1913.5	1843.1	1102.4	474.6
82.5°	94.8	105.1	179.0	189.1	176.9	232.7	704.1	704.8	588.9	295.6	141.0
85°	73.4	82.1	122.7	115.4	90.3	103.2	232.3	244.9	200.4	121.1	46.0
87.5°	36.6	45.5	83.3	73.2	35.4	29.6	83.1	88.7	79.1	47.4	16.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1228.2	1230.3	1232.9	1230.1	1229.1	1225.4	1219.0	1217.6	1214.3	1214.6	1216.4
5°	1239.0	1242.5	1241.1	1230.3	1217.4	1199.3	1180.5	1164.6	1154.0	1153.3	1152.6
7.5°	1259.6	1262.0	1250.9	1220.2	1184.1	1142.3	1102.9	1068.4	1047.5	1042.4	1041.2
10°	1292.0	1291.5	1261.3	1199.3	1127.3	1052.7	989.3	941.5	913.6	905.4	903.2
12.5°	1328.1	1322.7	1264.8	1161.3	1047.1	943.6	863.4	810.1	781.0	771.6	769.3
15°	1365.4	1352.0	1256.1	1104.5	948.5	826.1	741.8	692.6	676.8	671.7	670.7
17.5°	1400.1	1374.3	1231.2	1027.6	836.1	709.0	643.3	623.6	627.3	634.1	634.4
20°	1434.2	1389.4	1191.3	930.5	717.7	612.6	590.3	604.8	622.7	636.5	638.4
22.5°	1467.7	1399.9	1140.0	818.3	611.6	558.4	574.1	600.6	621.0	636.0	638.6
25°	1495.9	1402.5	1069.1	698.7	538.0	538.0	566.3	591.4	611.6	626.4	629.0
27.5°	1506.2	1385.1	969.2	587.9	500.9	528.6	555.6	576.4	593.6	609.3	612.1
30°	1510.2	1353.0	853.7	499.0	485.6	518.5	541.0	558.8	575.0	589.8	592.4
32.5°	1510.9	1314.3	731.3	448.6	475.1	507.9	522.9	538.7	556.0	561.9	562.8
35°	1515.3	1268.5	602.2	422.8	465.2	498.1	510.0	521.3	493.1	495.3	497.1
37.5°	1528.2	1223.2	494.3	408.2	458.9	492.9	507.2	466.4	444.3	439.2	438.5
40°	1552.4	1174.9	414.3	396.5	456.5	495.5	489.2	435.4	397.4	369.0	364.8
42.5°	1586.0	1122.8	363.2	388.7	458.2	507.9	464.1	405.6	342.5	324.2	321.9
45°	1623.7	1068.2	335.5	383.4	463.8	517.5	458.9	366.0	317.0	303.1	301.9
47.5°	1660.3	1001.3	321.2	381.0	471.6	509.8	437.1	353.8	304.8	297.5	298.2
50°	1702.3	941.0	312.5	378.4	478.4	504.9	412.4	347.5	300.1	309.0	318.4
52.5°	1737.7	878.6	304.8	373.3	480.9	496.2	406.1	348.6	300.1	317.2	326.1
55°	1779.7	831.5	295.8	362.5	476.0	471.6	401.6	355.7	303.6	292.8	293.7
57.5°	1833.9	816.0	286.0	345.6	459.6	435.7	399.5	362.5	301.5	294.7	297.0
60°	1909.0	832.4	282.0	323.5	434.0	407.5	399.8	359.0	286.7	275.0	275.2
62.5°	1980.6	850.7	281.8	309.7	402.6	382.4	394.4	347.5	279.2	272.4	275.0
65°	2004.0	832.2	270.5	294.2	367.2	352.4	384.5	335.3	273.6	263.2	262.8
67.5°	1972.6	774.7	247.7	269.1	326.6	317.4	371.6	320.7	264.6	256.2	254.8
70°	1879.2	646.3	219.6	236.0	280.4	278.0	351.2	303.8	252.7	245.4	239.3
72.5°	1627.9	460.5	185.1	196.4	228.3	235.8	323.1	281.8	235.8	220.1	210.7
75°	1337.0	340.9	152.0	154.4	173.4	193.8	284.3	256.0	215.8	189.1	181.8
77.5°	818.8	208.6	121.1	122.0	124.3	154.6	234.1	227.1	190.5	157.7	152.5
80°	265.1	113.8	87.5	92.0	84.9	113.3	181.1	193.3	163.5	131.8	126.2
82.5°	100.9	66.4	59.1	62.2	58.9	76.0	132.1	154.8	134.0	108.4	88.2
85°	48.8	37.5	35.0	39.2	36.4	38.9	84.5	114.0	101.6	70.6	65.7
87.5°	17.4	16.7	13.4	18.1	15.5	13.8	25.8	57.5	67.1	48.6	43.4
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)