

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: P322947

Luminaire Tested: **GAN-SA3A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10312 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

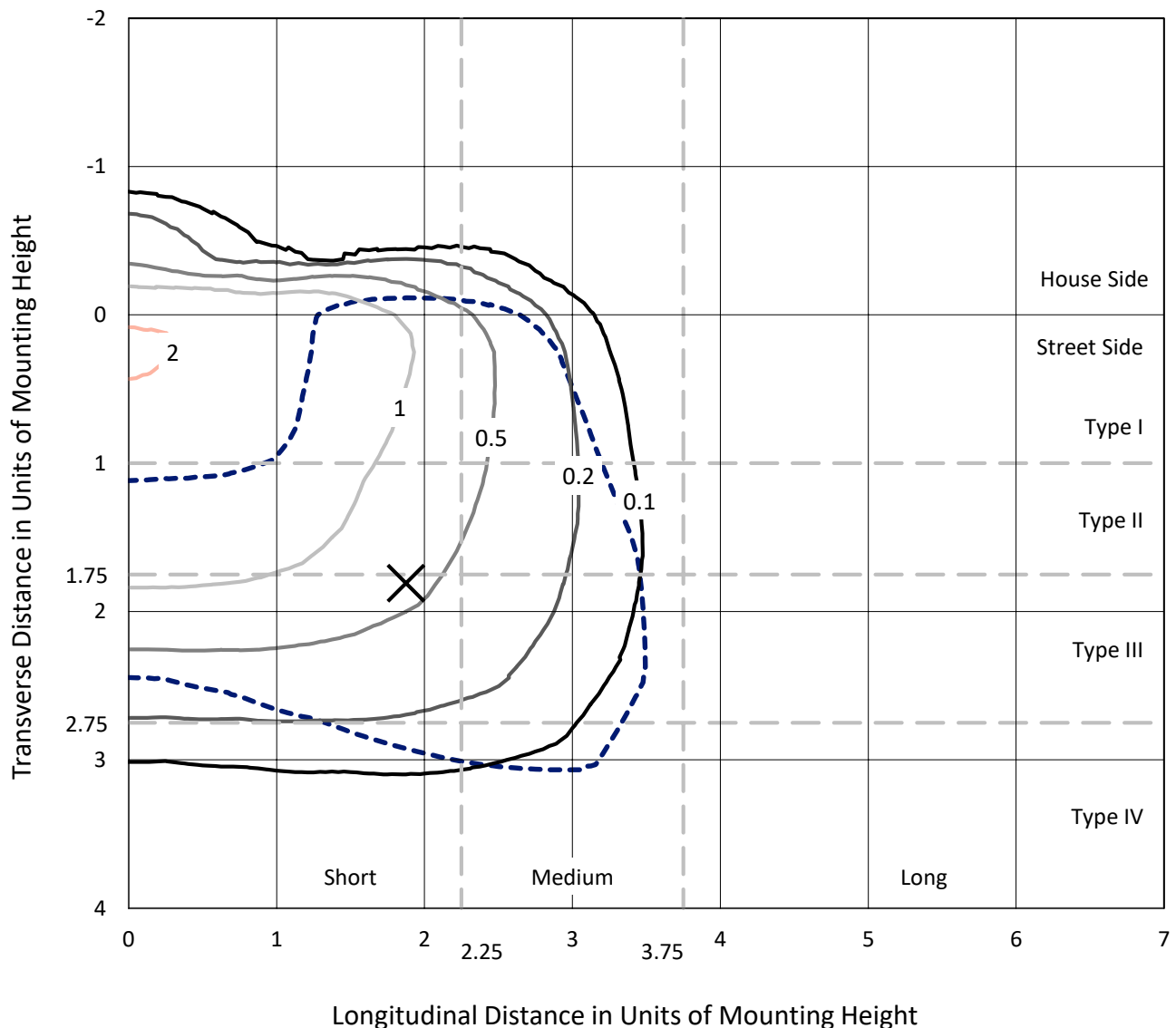
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

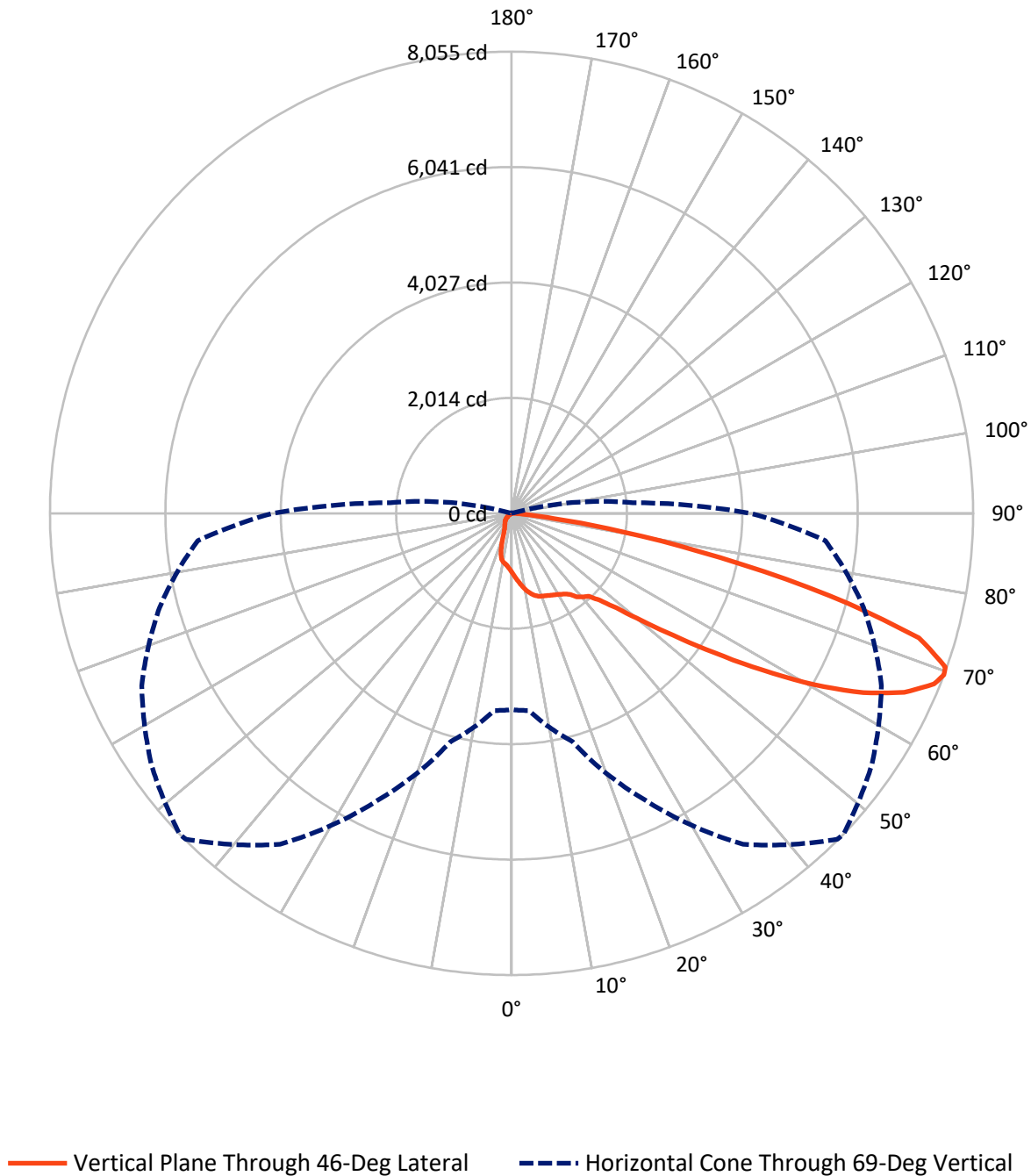
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1058.3	0.0	1058.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9253.7	0.0	9253.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	10312.0	0.0	10312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.0
10°-20°	312.0	3.0
20°-30°	490.7	4.8
30°-40°	703.6	6.8
40°-50°	1216.1	11.8
50°-60°	2402.5	23.3
60°-70°	3357.8	32.6
70°-80°	1622.2	15.7
80°-90°	104.3	1.0
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°	10312.0	100.0
0°-180°	10312.0	100.0

Coefficient of Utilization



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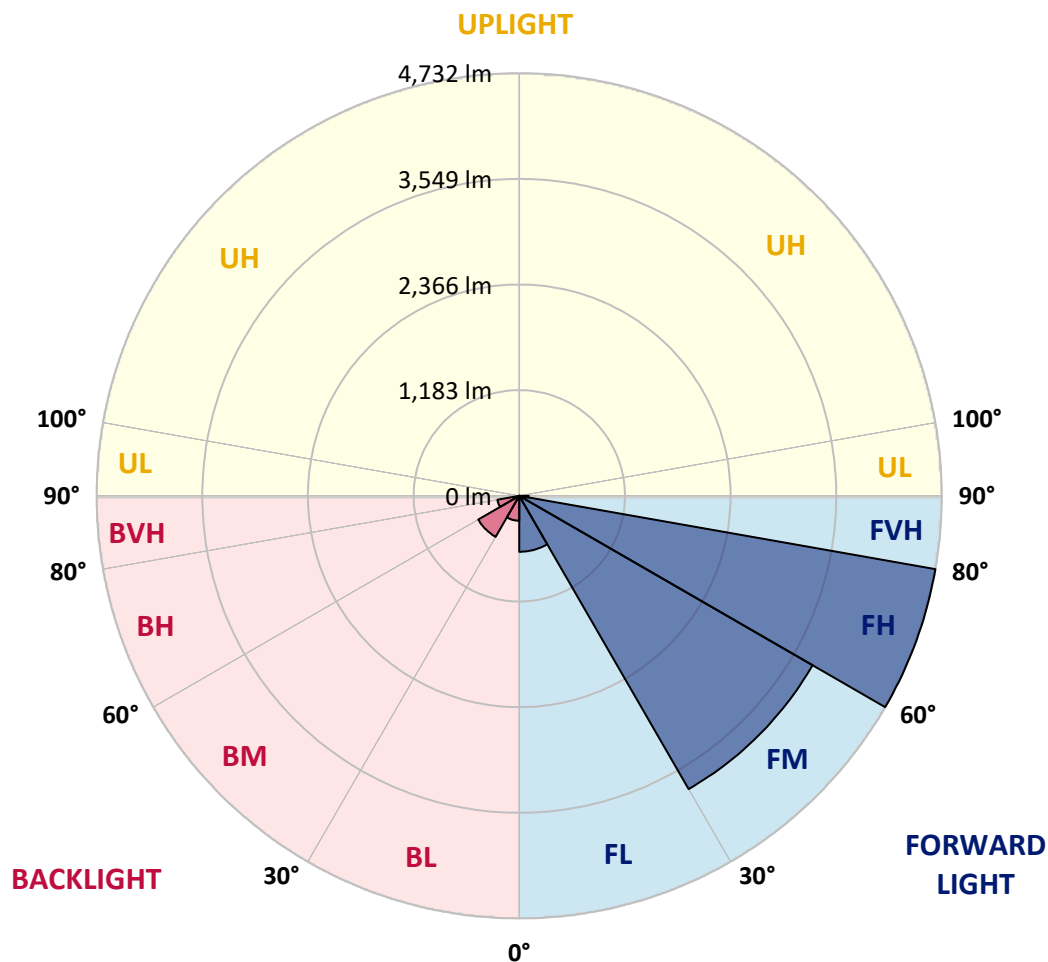
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.6	6.1			
FM	(30°-60°)	3791.9	36.8			
FH	(60°-80°)	4731.8	45.9			G2/5000
FVH	(80°-90°)	103.4	1.0			G2/225
BL	(0°-30°)	278.9	2.7	B1/500		
BM	(30°-60°)	530.3	5.1	B1/1000		
BH	(60°-80°)	248.2	2.4	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1147.8	1146.4	1139.6	1136.7	1120.3	1110.6	1106.7	1094.6	1077.2	1059.8	1040.5
5°	1278.4	1277.9	1265.3	1253.2	1222.3	1193.3	1187.9	1159.9	1120.7	1084.0	1047.2
7.5°	1411.8	1405.5	1392.9	1369.7	1324.8	1278.4	1274.0	1234.4	1178.8	1125.6	1072.9
10°	1524.9	1521.1	1504.6	1469.3	1416.6	1363.9	1358.6	1309.8	1246.9	1181.7	1114.5
12.5°	1612.9	1610.0	1588.3	1544.3	1488.2	1433.6	1426.3	1382.8	1315.6	1242.6	1163.3
15°	1666.6	1665.1	1638.6	1591.7	1536.5	1489.2	1482.9	1444.7	1382.3	1305.9	1216.5
17.5°	1679.2	1679.7	1652.1	1604.7	1559.3	1525.4	1520.6	1491.6	1439.4	1363.4	1269.7
20°	1651.1	1656.9	1632.3	1591.2	1563.1	1545.2	1541.4	1524.0	1480.0	1408.4	1312.2
22.5°	1611.5	1614.4	1597.5	1569.9	1558.3	1561.7	1559.7	1550.1	1512.8	1447.1	1354.3
25°	1587.3	1587.3	1577.2	1553.9	1561.7	1582.5	1583.0	1581.0	1551.5	1494.5	1405.5
27.5°	1586.3	1583.4	1571.8	1554.4	1575.7	1607.6	1609.5	1622.6	1604.2	1552.0	1469.3
30°	1625.0	1621.6	1597.0	1574.3	1601.3	1635.7	1640.5	1669.0	1659.8	1614.4	1540.4
32.5°	1715.4	1703.3	1648.7	1611.5	1631.8	1672.9	1679.2	1724.6	1739.1	1691.3	1609.1
35°	1839.2	1801.0	1722.2	1682.1	1684.0	1727.0	1732.8	1799.6	1842.6	1761.8	1662.2
37.5°	2009.9	1991.0	1862.9	1755.6	1764.3	1829.5	1846.5	1919.0	1906.9	1800.5	1722.7
40°	2384.1	2354.6	2218.3	1961.5	1841.1	1912.7	1918.0	1956.7	1957.7	1888.0	1848.4
42.5°	2893.7	2881.6	2738.0	2335.3	1992.5	1968.3	1978.0	2043.2	2116.2	2072.7	2070.8
45°	3457.9	3451.7	3299.4	2831.3	2298.5	2150.6	2162.7	2250.2	2389.9	2399.6	2461.0
47.5°	3911.9	3909.0	3821.5	3384.9	2767.0	2459.5	2463.4	2556.2	2801.8	2923.2	3021.3
50°	4325.8	4339.8	4270.7	3984.0	3405.2	2943.5	2934.3	2996.2	3390.7	3589.4	3711.3
52.5°	4901.2	4921.0	4727.1	4542.9	4074.9	3544.0	3536.7	3601.5	4098.6	4247.5	4269.2
55°	5409.3	5375.5	5222.2	5169.0	4891.5	4285.7	4283.7	4340.8	4783.2	4846.5	4886.7
57.5°	5633.7	5620.6	5694.6	5816.4	5746.8	5162.3	5157.9	5114.4	5395.8	5402.5	5525.8
60°	5775.3	5791.3	6018.0	6393.7	6567.3	6105.5	6077.5	5812.1	5980.8	5965.8	6097.8
62.5°	5669.0	5700.4	6108.4	6734.6	7181.3	6928.9	6889.3	6451.2	6480.7	6429.0	6551.8
65°	5104.2	5153.1	5821.7	6670.3	7485.9	7572.5	7532.3	7015.5	6877.7	6792.6	6724.4
67.5°	4144.5	4173.5	4871.7	6110.9	7348.6	7956.4	7948.1	7510.1	7177.4	6731.2	6202.2
69°	3425.1	3453.6	4125.6	5522.0	7046.4	8038.5	8054.5	7668.7	7120.4	6357.9	5495.4
70°	2901.0	2931.4	3557.5	5017.2	6695.9	8000.4	8028.9	7653.7	6957.0	5925.7	4875.1
72.5°	1521.6	1547.7	2190.2	3456.5	5458.6	7346.2	7432.7	7006.8	5897.2	4303.6	2882.6
75°	478.2	493.2	855.3	1806.8	3737.4	5712.0	5731.8	5496.3	4187.5	2367.2	1200.5
77.5°	182.3	177.9	284.8	665.8	1889.5	3596.7	3718.1	3434.7	2197.5	836.9	277.0
80°	98.1	98.6	147.9	275.6	808.4	1848.4	1950.9	1664.7	780.8	261.1	63.8
82.5°	42.5	44.5	83.2	146.0	371.3	681.7	733.0	610.2	298.3	175.5	23.7
85°	9.2	10.2	40.1	79.3	151.3	191.5	200.6	197.7	190.0	136.3	9.2
87.5°	0.0	0.0	17.9	28.5	38.2	43.5	38.2	49.8	104.9	91.9	4.8
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°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1034.2	1025.5	1010.5	994.1	982.5	970.4	960.7	956.3	951.5	948.1	952.5
5°	1032.3	1015.3	986.3	958.3	938.0	921.5	908.0	902.7	897.4	893.5	893.0
7.5°	1049.2	1025.5	981.0	939.9	908.5	886.2	867.9	860.1	853.8	850.9	848.5
10°	1081.6	1051.1	991.6	938.0	897.4	859.6	820.0	789.5	769.7	760.5	757.1
12.5°	1123.6	1085.4	1012.0	948.1	889.1	816.6	732.5	660.0	613.1	597.6	588.4
15°	1173.0	1125.6	1038.5	961.2	859.2	726.7	584.1	489.3	445.8	437.1	427.4
17.5°	1220.3	1168.1	1070.5	963.6	793.4	580.7	427.9	363.6	346.7	352.5	353.9
20°	1261.9	1210.2	1101.9	942.3	674.0	435.6	331.2	315.2	321.5	332.6	334.6
22.5°	1304.0	1250.8	1130.9	886.2	521.2	330.7	298.3	302.2	308.5	319.6	321.5
25°	1355.2	1300.1	1158.0	783.3	391.1	281.4	283.3	289.1	295.4	305.6	306.5
27.5°	1414.2	1362.5	1175.9	649.3	290.1	258.7	265.0	273.7	279.9	289.6	291.5
30°	1492.5	1444.7	1181.7	510.6	243.2	238.4	241.3	251.9	261.1	269.8	271.2
32.5°	1566.0	1525.9	1162.3	385.3	225.3	219.5	219.5	225.8	236.4	244.6	246.6
35°	1633.7	1607.6	1100.4	281.9	211.8	202.1	197.3	197.3	204.0	210.8	212.7
37.5°	1723.2	1722.2	1000.3	224.8	198.7	187.6	177.4	169.7	167.3	168.7	169.7
40°	1876.4	1877.9	869.8	201.6	187.6	172.6	157.1	143.1	130.1	125.7	125.2
42.5°	2115.8	2094.0	733.0	190.5	177.9	157.1	133.9	115.1	94.8	88.5	88.0
45°	2495.8	2366.7	587.9	180.3	167.8	139.7	110.7	85.1	68.7	63.8	63.8
47.5°	3049.4	2725.0	455.5	169.2	154.2	119.9	83.6	61.4	50.3	47.9	48.3
50°	3621.8	3076.0	349.1	155.2	137.8	99.1	61.9	44.5	38.2	38.2	38.7
52.5°	4129.5	3333.2	272.2	140.2	117.5	77.8	46.9	34.8	31.9	31.4	31.9
55°	4604.8	3499.0	208.4	122.8	93.3	58.0	35.8	28.5	26.6	25.6	25.1
57.5°	5063.1	3581.2	156.2	99.1	67.7	42.1	28.5	24.2	22.2	20.8	20.3
60°	5368.2	3514.5	107.3	73.0	46.9	30.5	23.7	20.8	18.4	16.9	16.4
62.5°	5540.3	3332.2	69.1	52.7	33.4	22.7	18.9	17.4	14.0	12.6	12.6
65°	5470.7	3031.5	48.3	37.7	24.2	16.9	14.0	14.0	10.2	8.2	7.7
67.5°	4848.0	2561.1	36.7	28.0	17.4	12.6	10.6	12.1	6.3	3.9	3.9
69°	4171.1	2122.5	31.4	23.2	14.5	10.2	9.2	11.1	4.4	2.9	2.4
70°	3625.2	1831.0	28.5	20.3	12.1	8.7	8.2	10.6	4.4	2.4	1.9
72.5°	2168.9	1021.1	21.8	14.5	7.7	6.8	6.8	12.1	4.4	2.4	1.9
75°	876.6	359.7	16.0	10.2	5.8	5.8	8.2	15.5	3.9	1.9	1.5
77.5°	198.7	78.8	9.2	6.3	3.9	5.8	9.7	12.1	2.4	1.0	0.0
80°	48.3	19.3	5.8	3.9	2.4	4.4	7.3	6.8	0.5	0.0	0.0
82.5°	16.0	6.8	2.4	1.9	0.5	1.5	3.4	1.9	0.0	0.0	0.0
85°	6.8	3.9	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)