

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: P318306

Luminaire Tested: **GAN-SA2A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318306
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7977 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

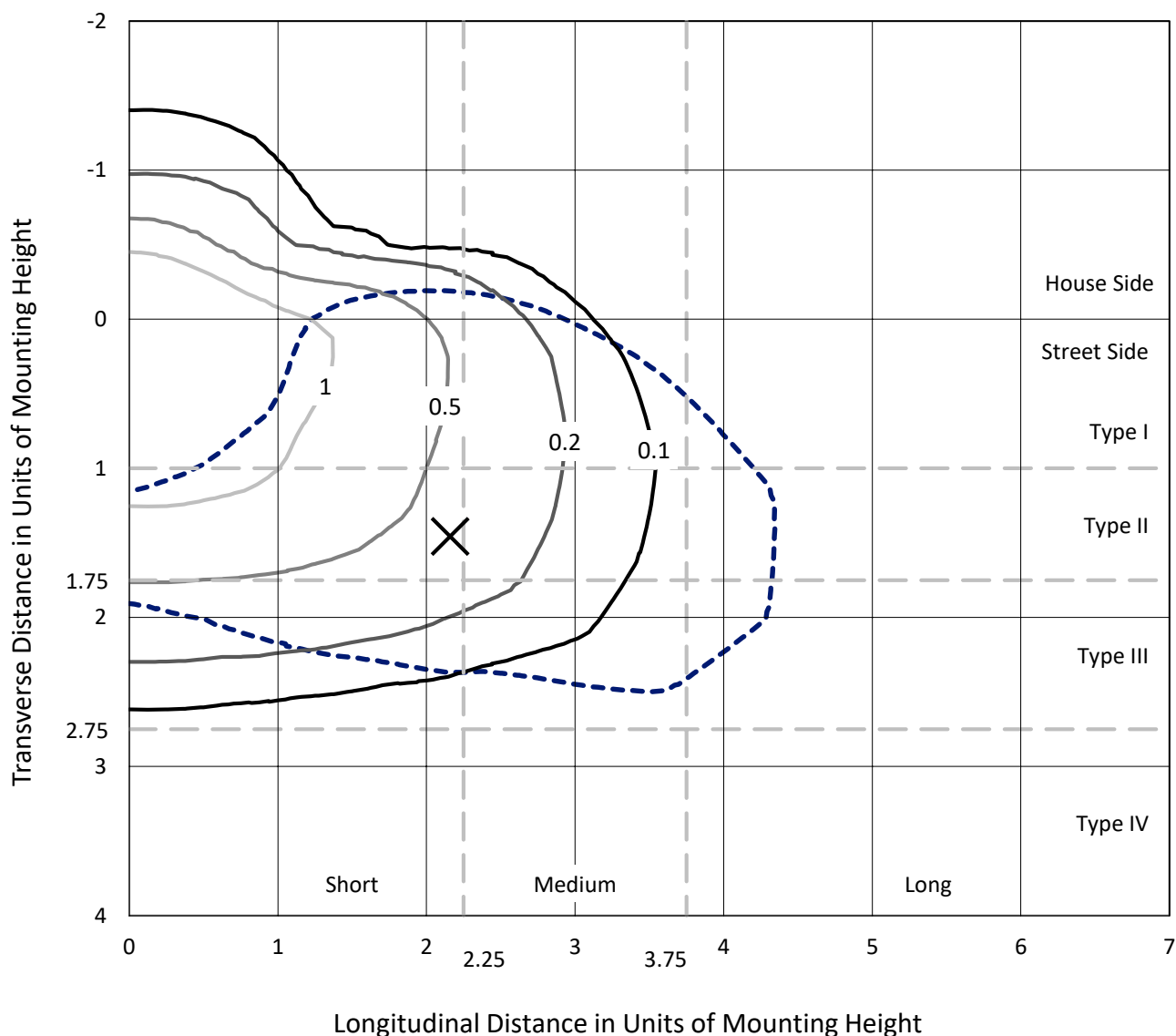
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

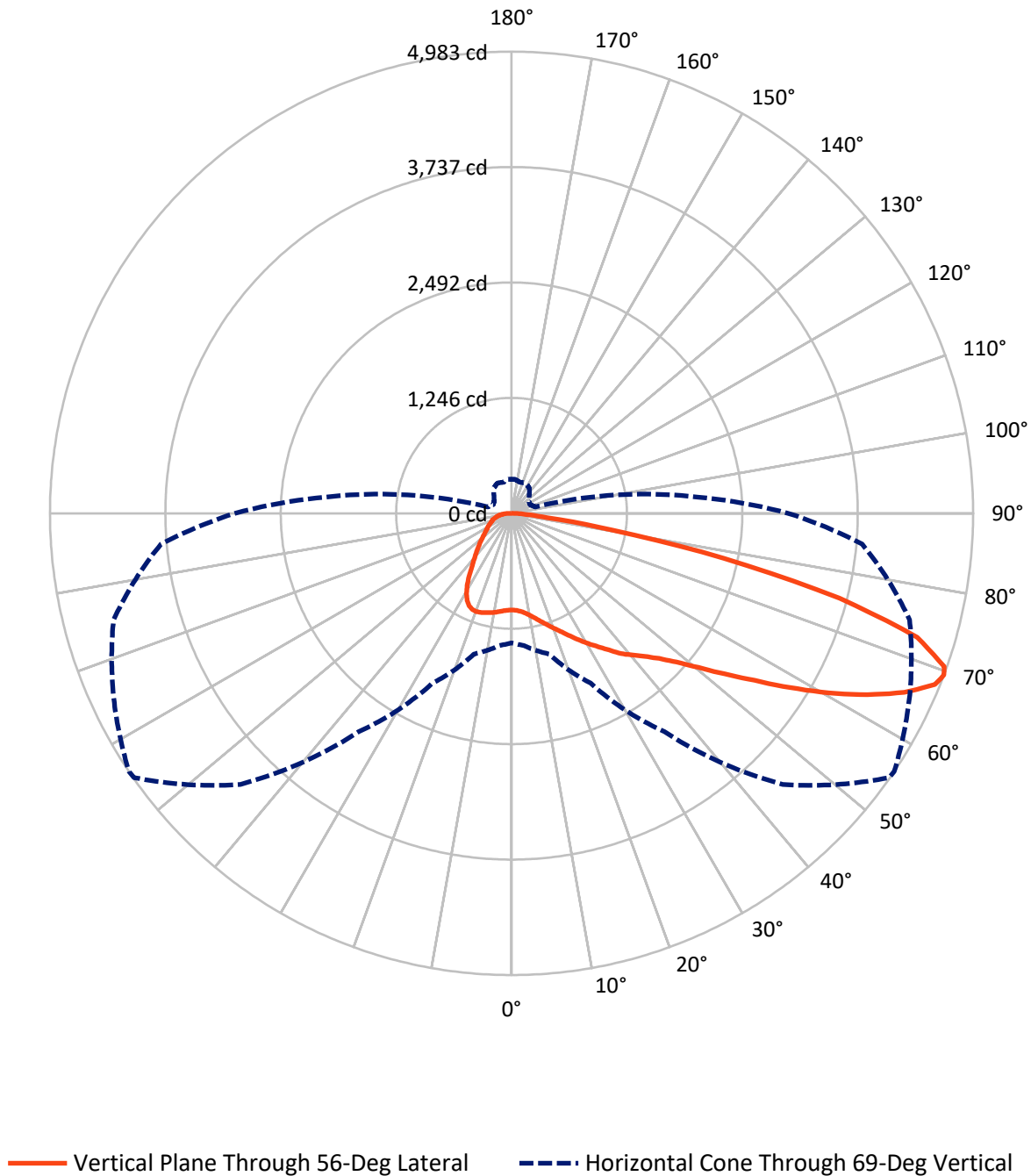
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.5	0.0	1776.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6200.5	0.0	6200.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	7977.0	0.0	7977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.3
10°-20°	329.4	4.1
20°-30°	574.9	7.2
30°-40°	825.9	10.4
40°-50°	1143.0	14.3
50°-60°	1674.6	21.0
60°-70°	2041.7	25.6
70°-80°	1128.8	14.2
80°-90°	156.3	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°	7977.0	100.0
0°-180°	7977.0	100.0

Coefficient of Utilization



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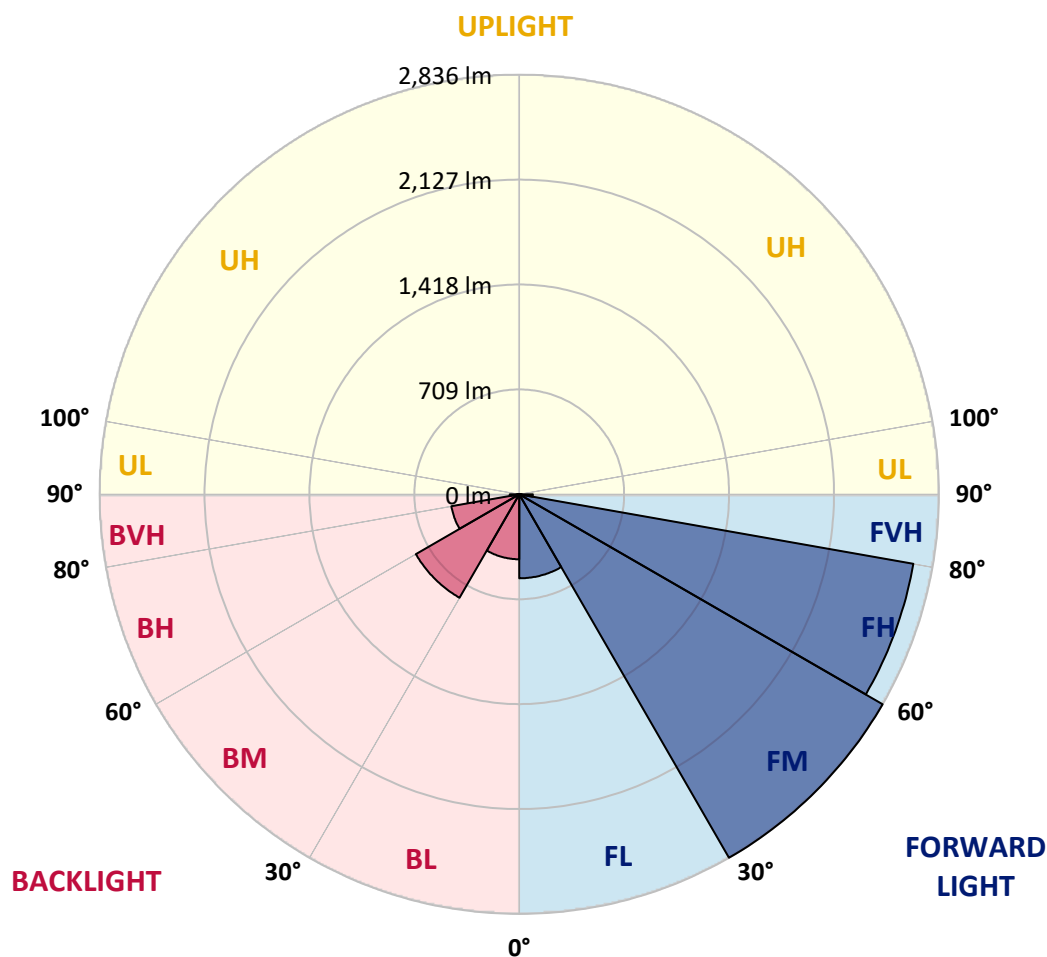
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.7	7.1			
FM	(30°-60°)	2836.1	35.6			
FH	(60°-80°)	2704.6	33.9			G2/5000
FVH	(80°-90°)	92.1	1.2			G1/100
BL	(0°-30°)	439.0	5.5	B1/500		
BM	(30°-60°)	807.4	10.1	B1/1000		
BH	(60°-80°)	465.8	5.8	B1/500		G1/500
BVH	(80°-90°)	64.2	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1049.5	1050.6	1049.7	1051.9	1049.5	1051.1	1049.7	1049.7	1048.9	1046.4	1043.7
5°	1066.0	1068.2	1066.8	1069.0	1066.0	1066.5	1064.0	1064.0	1061.6	1056.3	1050.8
7.5°	1091.8	1094.3	1093.2	1095.4	1091.2	1091.2	1087.9	1087.9	1082.7	1074.2	1067.9
10°	1122.6	1125.9	1124.8	1128.1	1124.8	1125.9	1122.6	1122.6	1116.0	1103.9	1095.9
12.5°	1167.4	1171.5	1168.5	1168.2	1166.8	1169.0	1166.3	1165.7	1159.7	1143.2	1132.2
15°	1227.3	1231.7	1225.3	1224.8	1217.1	1216.3	1216.3	1215.4	1211.6	1191.8	1173.7
17.5°	1296.2	1297.6	1292.1	1283.3	1273.4	1267.1	1266.3	1268.5	1268.5	1245.4	1216.5
20°	1363.8	1366.3	1361.9	1352.0	1339.4	1330.0	1323.4	1327.8	1327.6	1300.1	1259.1
22.5°	1437.5	1443.3	1436.7	1424.0	1409.2	1398.7	1387.2	1391.0	1391.3	1357.5	1300.9
25°	1532.8	1527.6	1523.5	1505.6	1484.5	1473.8	1463.0	1466.9	1465.8	1419.4	1344.1
27.5°	1617.2	1618.3	1612.8	1593.9	1569.4	1545.8	1545.2	1547.7	1543.6	1483.7	1384.7
30°	1715.3	1715.9	1708.2	1691.1	1664.5	1634.0	1626.8	1630.9	1622.2	1544.7	1427.6
32.5°	1812.9	1815.6	1807.1	1786.5	1765.1	1728.0	1713.7	1716.4	1694.4	1607.0	1471.8
35°	1898.3	1902.2	1899.4	1885.7	1862.3	1830.5	1813.4	1811.8	1784.6	1683.4	1530.4
37.5°	1985.4	1989.0	1986.0	1974.5	1965.1	1931.3	1922.2	1922.2	1875.0	1761.5	1604.8
40°	2075.0	2080.5	2077.0	2061.0	2053.0	2037.7	2015.9	2010.7	1959.6	1855.2	1726.3
42.5°	2158.3	2165.4	2179.7	2170.4	2154.2	2156.4	2112.7	2109.9	2072.6	1993.7	1878.8
45°	2276.5	2286.9	2311.1	2303.9	2300.6	2288.5	2236.6	2234.1	2219.8	2180.0	2068.2
47.5°	2405.3	2419.6	2463.3	2464.7	2500.1	2477.3	2406.7	2398.2	2401.5	2403.1	2299.3
50°	2524.1	2539.7	2611.4	2645.2	2728.8	2733.7	2620.8	2613.1	2626.0	2663.9	2568.6
52.5°	2618.9	2638.6	2728.2	2832.7	2975.8	3016.5	2884.3	2878.5	2888.2	2953.6	2873.1
55°	2688.4	2709.8	2807.4	2997.5	3226.2	3297.9	3187.7	3182.2	3188.3	3271.5	3204.2
57.5°	2704.6	2709.8	2851.3	3108.6	3437.5	3609.8	3559.0	3548.0	3518.3	3590.8	3569.7
60°	2628.5	2649.4	2815.1	3147.6	3601.0	3917.3	3947.0	3933.2	3850.0	3909.3	3892.3
62.5°	2474.0	2511.4	2679.6	3088.2	3665.0	4168.5	4327.6	4311.1	4167.6	4206.1	4124.2
65°	2221.8	2237.7	2414.4	2883.5	3583.7	4329.2	4667.0	4658.7	4478.2	4418.0	4167.1
67.5°	1770.5	1800.5	1950.5	2455.6	3250.9	4310.3	4929.4	4928.6	4681.0	4496.6	4015.1
69°	1398.7	1429.8	1572.7	2022.8	2876.6	4136.9	4973.4	4983.0	4738.1	4448.8	3798.0
70°	1115.1	1151.1	1249.2	1703.8	2544.4	3908.2	4936.8	4954.1	4727.1	4369.9	3597.7
72.5°	474.6	503.7	573.5	878.3	1550.7	2918.4	4513.9	4579.3	4472.4	3999.5	2973.4
75°	207.2	216.3	247.9	358.1	688.4	1588.4	3536.1	3657.1	3824.1	3380.6	2214.9
77.5°	151.7	155.5	172.9	210.2	308.9	599.9	2274.0	2344.3	2757.9	2460.0	1358.6
80°	117.3	120.1	133.6	154.4	201.7	242.6	1037.1	1097.6	1550.7	1263.5	565.8
82.5°	93.4	95.4	104.7	113.8	139.3	147.0	344.3	382.0	572.4	349.0	149.8
85°	86.8	89.0	92.3	83.0	89.3	86.3	148.9	155.8	172.9	137.1	62.7
87.5°	39.3	46.4	91.5	64.6	47.5	37.9	61.0	63.8	71.7	72.0	27.8
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°	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1045.3	1044.5	1045.9	1042.6	1046.7	1046.4	1045.1	1045.6	1048.4	1048.1	1048.4
5°	1051.7	1051.1	1052.8	1050.3	1055.2	1056.9	1057.2	1059.6	1062.7	1063.5	1063.5
7.5°	1067.6	1067.6	1068.4	1065.1	1068.4	1068.2	1066.8	1069.3	1072.3	1072.6	1072.3
10°	1095.1	1095.4	1094.0	1085.5	1082.7	1075.3	1068.4	1068.7	1072.6	1075.6	1076.4
12.5°	1129.7	1128.6	1122.6	1106.9	1095.4	1080.2	1073.1	1072.8	1076.7	1079.1	1080.0
15°	1169.3	1166.3	1150.6	1125.0	1104.7	1089.9	1078.3	1075.6	1073.4	1070.6	1070.9
17.5°	1206.7	1199.8	1173.7	1138.2	1116.8	1097.0	1074.7	1056.9	1044.5	1037.4	1035.2
20°	1244.6	1231.1	1193.5	1150.6	1123.4	1087.4	1044.5	1008.2	985.7	975.3	973.3
22.5°	1279.2	1257.5	1211.9	1163.5	1118.2	1055.0	987.6	934.9	903.5	889.5	890.6
25°	1313.0	1282.8	1231.1	1172.6	1091.8	997.8	908.5	843.6	807.4	791.7	791.2
27.5°	1342.7	1308.3	1252.0	1165.2	1042.6	916.5	814.8	751.6	721.4	707.9	705.7
30°	1376.8	1340.5	1279.8	1136.9	970.6	822.5	723.3	678.8	657.3	643.9	641.4
32.5°	1418.3	1384.2	1302.6	1085.5	878.5	724.4	651.8	620.8	601.3	586.2	583.4
35°	1478.7	1441.9	1308.3	1011.8	777.4	646.9	599.3	567.5	541.1	521.6	519.7
37.5°	1554.6	1514.2	1295.1	916.5	679.3	596.6	555.6	516.4	482.0	454.5	450.1
40°	1663.9	1602.9	1258.6	806.5	607.0	557.8	513.1	468.3	425.7	393.5	387.2
42.5°	1795.3	1707.1	1202.5	697.2	554.0	518.6	470.7	415.2	374.6	351.7	348.4
45°	1962.4	1815.3	1124.8	601.5	501.8	479.3	425.1	374.0	348.7	332.0	329.2
47.5°	2153.1	1936.8	1043.1	523.8	457.5	442.4	388.6	355.6	335.5	322.3	319.9
50°	2387.5	2073.9	956.6	460.0	413.0	398.2	371.3	345.4	329.5	319.3	316.8
52.5°	2651.8	2228.6	894.2	409.7	376.2	365.5	362.2	339.9	327.0	319.3	316.8
55°	2936.5	2386.1	826.9	367.4	344.3	347.3	356.1	340.5	331.7	322.3	318.8
57.5°	3221.5	2548.8	751.9	331.7	319.0	333.9	352.0	341.6	334.2	325.1	321.8
60°	3446.8	2651.8	635.6	301.7	299.0	319.0	342.1	333.3	323.7	324.0	323.4
62.5°	3552.1	2646.3	507.3	275.1	278.9	299.0	326.2	320.4	312.4	323.2	324.0
65°	3493.0	2514.4	394.9	250.9	257.5	278.1	309.7	314.1	316.8	337.5	340.2
67.5°	3245.1	2257.8	305.9	229.7	238.0	263.8	311.4	342.1	345.7	367.4	367.1
69°	2988.7	2017.0	265.7	218.7	228.4	267.4	332.8	360.0	346.5	369.6	366.3
70°	2773.8	1826.6	244.3	211.3	224.0	273.7	347.1	359.7	342.4	362.2	356.7
72.5°	2136.3	1314.1	207.2	197.6	209.1	261.9	351.2	351.7	332.8	336.6	327.3
75°	1465.2	830.5	180.8	178.9	186.6	236.1	338.0	336.1	307.8	302.3	294.6
77.5°	807.9	421.8	153.6	161.0	166.3	209.1	307.2	304.5	281.1	269.6	266.8
80°	311.6	184.7	129.7	143.2	146.5	181.1	269.3	266.8	247.3	232.5	228.4
82.5°	117.6	96.7	107.2	123.9	122.8	149.5	228.1	226.7	207.8	186.0	179.4
85°	54.4	58.0	84.9	102.2	94.3	110.7	182.5	184.9	161.9	136.0	136.0
87.5°	23.1	32.4	60.2	77.2	63.5	74.7	133.8	127.8	117.3	81.3	76.4
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)