

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: P268398

Luminaire Tested: **GAN-AF-03-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10329.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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: 28.75 FT

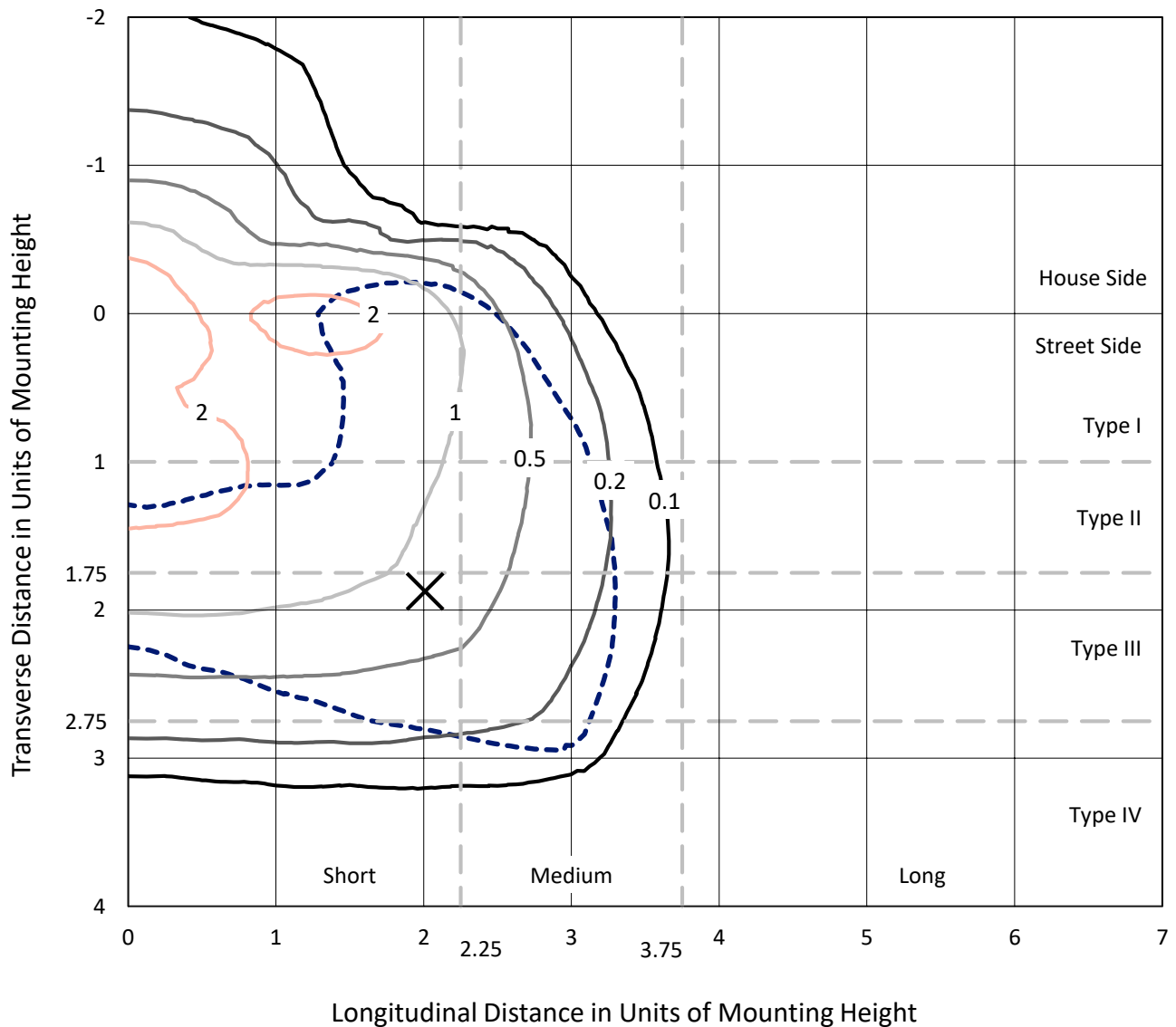


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

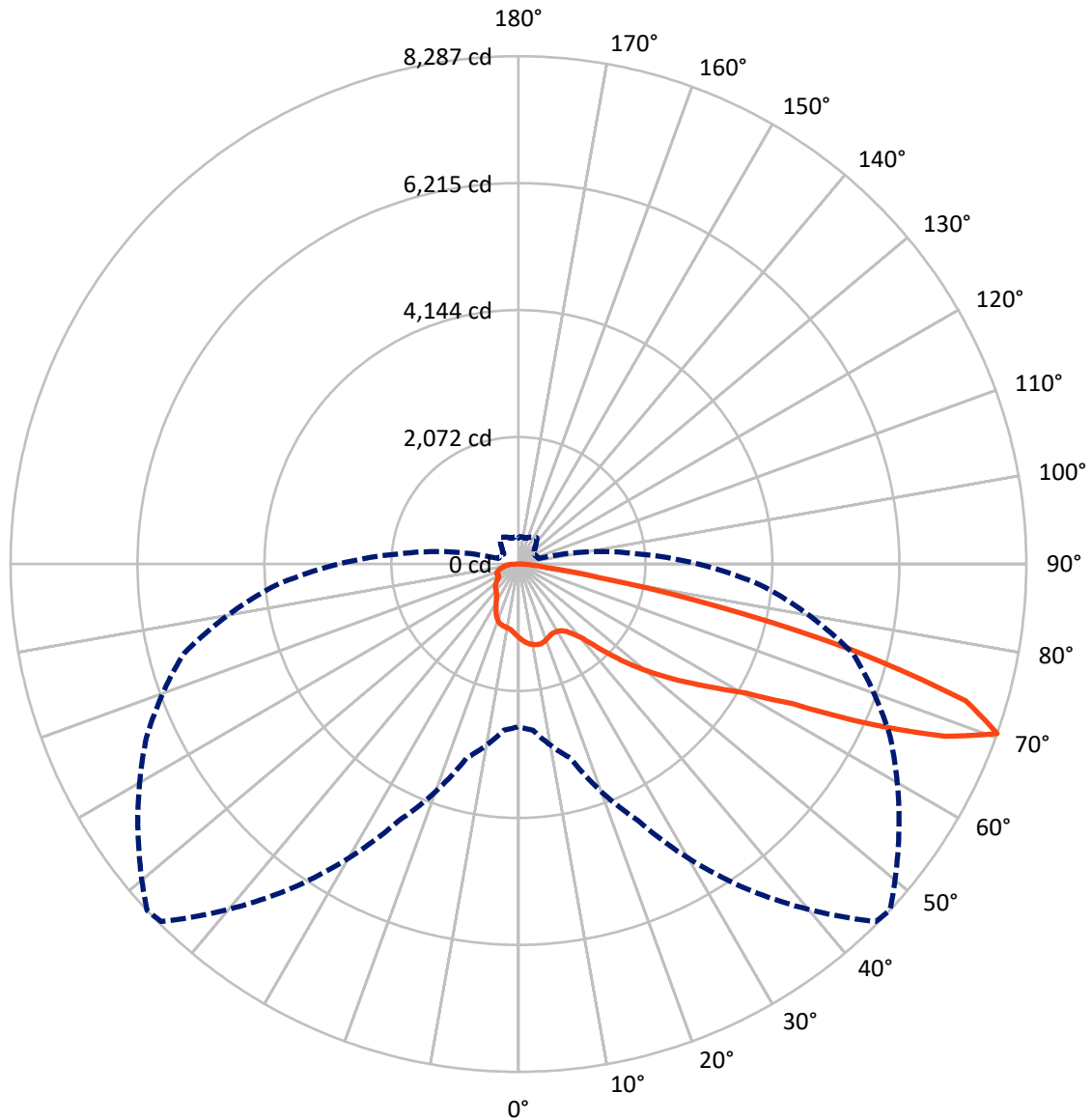


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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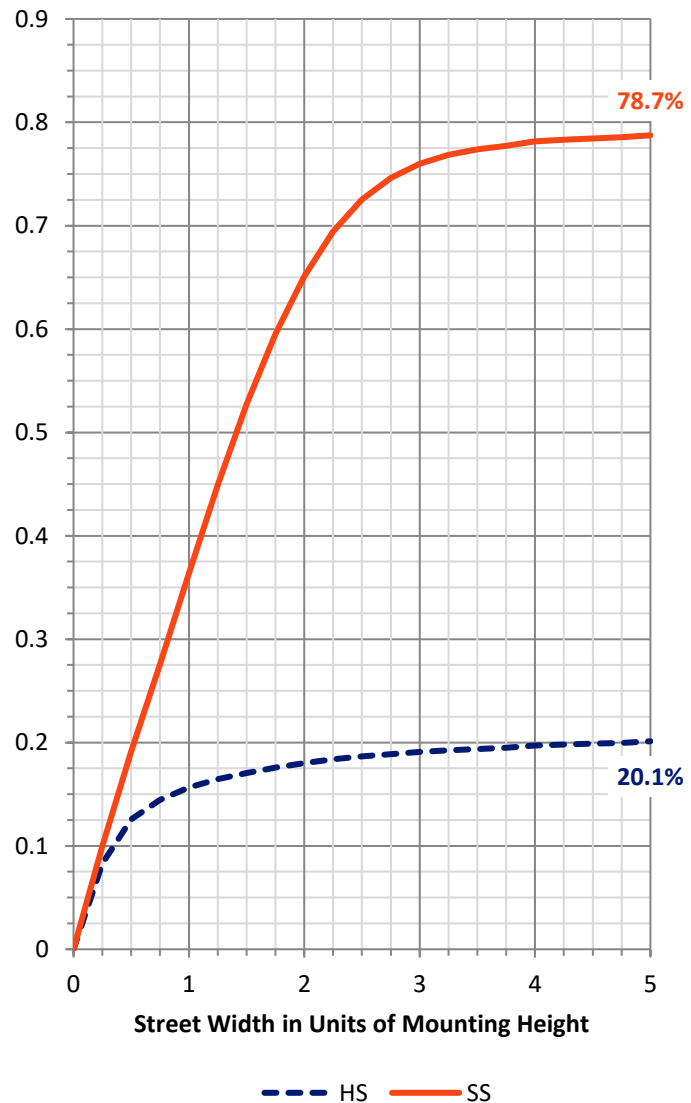
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.8	0.0	2154.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8174.3	0.0	8174.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	10329.1	0.0	10329.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.1
10°-20°	336.9	3.3
20°-30°	497.5	4.8
30°-40°	723.1	7.0
40°-50°	1301.4	12.6
50°-60°	2254.5	21.8
60°-70°	3217.8	31.2
70°-80°	1651.8	16.0
80°-90°	231.3	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°	10329.1	100.0
0°-180°	10329.1	100.0

Coefficient of Utilization



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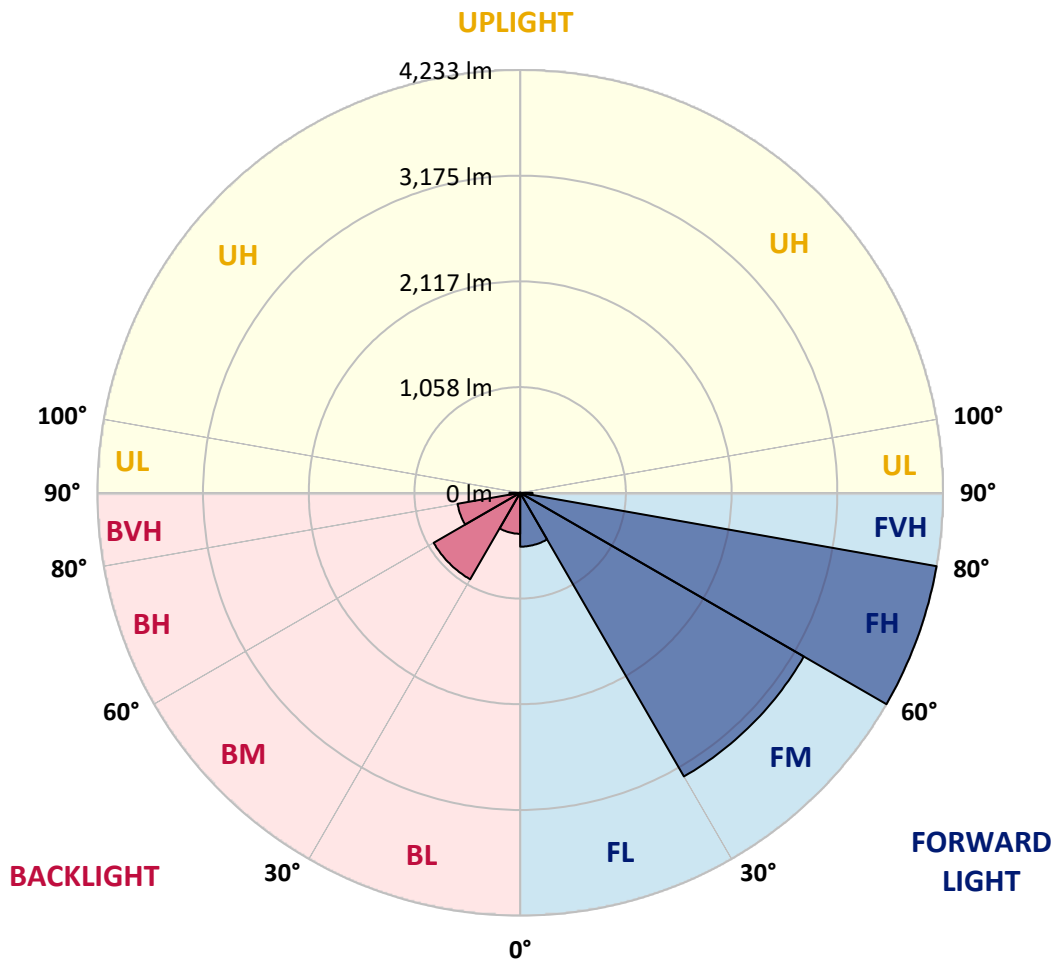
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.0	5.2			
FM	(30°-60°)	3278.8	31.7			
FH	(60°-80°)	4233.1	41.0			G2/5000
FVH	(80°-90°)	123.4	1.2			G2/225
BL	(0°-30°)	410.3	4.0	B1/500		
BM	(30°-60°)	1000.2	9.7	B2/2500		
BH	(60°-80°)	636.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	107.9	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1268.9	1266.3	1265.4	1263.3	1260.9	1248.3	1245.7	1236.6	1224.1	1211.0	1197.5
5°	1352.3	1351.8	1346.2	1336.1	1320.1	1292.5	1286.0	1263.8	1234.2	1205.5	1176.9
7.5°	1425.6	1421.1	1410.6	1390.4	1362.3	1324.6	1315.6	1284.9	1244.2	1205.0	1166.3
10°	1479.4	1477.0	1453.7	1426.1	1389.5	1347.7	1337.1	1303.0	1258.3	1208.6	1160.3
12.5°	1510.1	1505.0	1478.4	1445.3	1401.5	1360.8	1350.2	1315.6	1265.4	1208.6	1151.7
15°	1508.1	1504.5	1477.9	1441.7	1397.6	1361.8	1352.3	1317.6	1263.8	1203.5	1140.7
17.5°	1467.8	1469.4	1446.7	1411.1	1374.9	1347.7	1339.3	1307.0	1253.8	1193.5	1127.6
20°	1397.6	1404.5	1389.5	1357.8	1337.7	1319.2	1313.6	1286.5	1238.3	1178.8	1113.5
22.5°	1327.2	1333.7	1327.7	1301.0	1298.1	1286.9	1283.9	1264.4	1224.6	1169.9	1105.0
25°	1275.4	1281.4	1280.4	1257.3	1266.3	1265.8	1263.3	1253.8	1221.7	1169.9	1106.5
27.5°	1261.3	1263.3	1261.3	1240.2	1252.7	1262.7	1260.9	1259.3	1230.7	1184.4	1125.7
30°	1309.5	1306.6	1291.0	1248.3	1259.9	1273.8	1271.9	1272.9	1257.7	1222.7	1168.3
32.5°	1502.1	1488.4	1439.3	1319.2	1288.4	1296.0	1297.1	1313.6	1316.0	1281.4	1234.7
35°	1790.0	1775.0	1711.0	1509.1	1377.5	1351.3	1351.3	1376.5	1391.5	1365.9	1337.7
37.5°	2094.9	2078.4	2044.3	1772.4	1564.3	1447.2	1444.7	1462.4	1483.9	1490.0	1496.9
40°	2441.8	2424.2	2433.7	2067.9	1825.1	1613.5	1578.0	1565.3	1623.6	1662.4	1718.5
42.5°	2821.0	2813.1	2816.5	2396.9	2122.2	1862.4	1811.5	1746.8	1817.1	1885.9	2003.9
45°	3172.4	3179.5	3175.9	2749.3	2452.8	2165.9	2112.1	1986.4	2055.3	2173.4	2365.9
47.5°	3479.9	3450.7	3496.1	3134.1	2823.2	2505.6	2439.2	2270.8	2340.8	2486.5	2812.1
50°	3853.3	3849.2	3782.9	3647.7	3270.9	2846.8	2759.9	2564.8	2673.4	2876.0	3374.5
52.5°	4245.7	4172.8	4112.1	4047.3	3745.8	3196.4	3090.0	2857.8	3064.4	3319.1	4059.8
55°	4326.1	4293.4	4368.8	4478.0	4203.6	3559.9	3435.7	3225.2	3504.6	3825.6	4850.3
57.5°	4498.1	4497.5	4653.3	4847.8	4674.9	3945.3	3820.1	3668.9	3999.6	4406.0	5689.4
60°	4614.1	4646.8	4936.1	5313.7	5137.8	4390.5	4275.5	4180.9	4562.3	5054.9	6471.4
62.5°	4674.9	4719.2	5114.1	5502.6	5792.0	5131.7	5016.7	4880.4	5307.0	5766.4	6928.6
65°	4422.1	4509.0	5086.5	5665.9	6364.9	6333.2	6281.5	6042.2	6238.2	6328.6	6763.3
67.5°	3722.7	3811.6	4483.9	5513.5	6773.8	7492.0	7503.1	7094.5	6811.0	6376.9	5686.5
70°	2652.2	2722.1	3278.5	4622.7	6462.3	8249.2	8287.0	7579.4	6697.0	5655.3	3972.8
72.5°	1259.3	1302.1	1828.7	3008.6	5128.2	7558.2	7631.2	6960.3	5694.4	4187.0	2167.3
75°	462.7	475.9	618.2	1279.9	2974.4	5574.0	5659.9	4989.5	3774.9	2084.4	825.6
77.5°	277.3	285.9	346.7	540.2	1169.9	3186.0	3313.0	2713.6	1649.7	775.9	406.0
80°	193.9	200.1	248.7	336.1	552.7	1214.1	1327.2	1107.5	657.3	491.0	295.5
82.5°	131.2	134.1	174.9	227.1	367.3	433.7	467.8	492.5	443.3	365.3	187.4
85°	86.0	88.9	118.5	149.7	233.6	224.1	229.2	290.0	323.6	248.2	104.1
87.5°	49.2	51.3	71.3	79.9	114.5	95.0	95.9	152.7	207.0	167.4	63.3
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°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1193.9	1187.4	1172.8	1163.8	1155.3	1153.2	1149.7	1149.2	1148.8	1148.8	1147.2
5°	1167.3	1156.3	1133.8	1121.2	1110.6	1109.5	1109.0	1111.6	1112.6	1113.5	1112.0
7.5°	1150.3	1135.2	1107.0	1088.9	1076.3	1073.4	1078.3	1090.0	1097.5	1100.6	1098.9
10°	1139.7	1121.2	1088.4	1068.9	1058.4	1056.8	1063.4	1076.9	1092.5	1098.4	1098.0
12.5°	1127.6	1106.5	1071.9	1051.2	1045.3	1048.2	1056.8	1069.3	1085.4	1094.9	1095.6
15°	1115.5	1090.9	1055.2	1037.3	1034.7	1038.7	1046.7	1056.2	1068.9	1078.3	1079.5
17.5°	1101.1	1075.5	1039.7	1021.2	1019.0	1021.2	1021.6	1026.7	1034.7	1043.7	1046.3
20°	1085.4	1059.3	1022.1	1003.5	994.5	986.3	977.4	978.4	980.9	989.9	992.0
22.5°	1074.4	1048.2	1008.5	982.9	958.9	934.6	916.6	914.0	915.1	922.6	925.2
25°	1075.5	1047.8	1005.1	960.7	908.0	869.4	845.2	841.3	840.8	846.3	849.7
27.5°	1094.9	1067.4	1018.0	938.2	852.9	795.4	769.8	766.9	762.8	764.3	768.3
30°	1138.7	1113.1	1049.8	915.1	792.9	723.1	696.5	693.5	687.9	685.4	688.5
32.5°	1210.0	1188.9	1096.0	892.9	733.1	661.3	634.2	627.6	624.1	621.1	623.7
35°	1328.7	1319.6	1157.7	868.8	680.3	613.5	589.0	578.9	573.8	579.3	583.4
37.5°	1514.6	1519.7	1238.8	831.1	639.8	581.9	561.4	549.8	542.1	546.8	551.3
40°	1777.8	1781.3	1328.1	777.9	604.5	563.2	541.1	530.7	520.1	512.0	511.6
42.5°	2123.7	2087.9	1416.1	720.1	563.9	551.7	527.1	514.1	498.0	475.9	471.4
45°	2533.7	2408.5	1482.9	653.7	518.1	537.6	511.6	493.4	468.3	444.2	441.6
47.5°	3006.1	2752.8	1515.6	584.9	475.4	517.1	492.5	463.9	432.2	420.0	418.6
50°	3582.9	3161.3	1531.3	518.1	438.3	489.9	464.9	431.1	404.5	402.0	400.6
52.5°	4239.7	3652.8	1536.2	463.3	407.6	454.8	442.2	409.5	388.4	390.5	390.5
55°	4927.2	4160.3	1467.8	423.6	379.4	418.6	427.1	401.1	383.4	391.4	394.4
57.5°	5558.4	4610.1	1252.7	393.0	352.8	390.9	421.7	409.1	397.1	429.7	431.6
60°	6042.8	4875.9	935.7	365.3	333.2	381.4	436.1	439.7	442.8	520.6	531.2
62.5°	6144.2	4787.4	643.2	343.7	324.1	389.4	462.7	463.3	459.8	514.1	520.6
65°	5678.5	4228.1	467.8	331.7	316.7	404.0	485.4	474.8	451.8	493.0	481.0
67.5°	4509.6	3185.4	389.4	322.6	305.6	403.0	509.6	485.4	447.3	482.8	463.3
70°	2927.1	1926.1	346.7	315.0	292.5	383.9	523.6	484.5	434.2	449.2	426.2
72.5°	1428.1	861.4	318.1	304.0	279.0	357.3	523.2	475.4	420.5	419.6	407.0
75°	558.7	394.4	291.9	287.5	255.7	327.2	509.1	462.3	404.5	388.4	383.9
77.5°	327.2	281.3	258.8	262.8	228.1	297.0	488.5	439.7	382.4	363.4	358.3
80°	238.2	210.6	220.7	227.1	195.0	266.8	460.8	412.1	357.7	367.3	360.3
82.5°	152.7	135.6	178.9	185.4	162.4	236.2	430.6	382.9	323.1	293.4	286.4
85°	78.0	86.0	133.2	141.3	125.1	193.9	393.9	344.2	284.0	244.2	248.2
87.5°	43.7	58.7	84.9	95.0	88.5	149.3	319.5	284.0	231.7	188.5	165.8
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)